11J Family Housing, L.P.

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1 December 2016
Project 750622603

Mr. Keith Nowell, PG
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Underground Storage Tank Closure Investigation Report
1110 Jackson Street
Oakland, California
Alameda County SCP Case No. RO0003232
Langan Project: 7506220603

Dear Mr. Nowell:

The property referred to above, (APN: 002-0081-008-01), has been leased from the Oakland Housing Authority for a period of seventy-five (75) years, beginning March 16, 2015, pursuant to the terms of a lease agreement with the 11J Family Housing, Limited Partnership.

As a legally authorized representative of the 11J Family Housing Limited Partnership (*Lessee, Developer, and Building Owner of 188 11th Street, formerly 1110 Jackson Street*) and on behalf of the Oakland Housing Authority (*Lessor*), I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document titled *Additional Environmental Site Assessment Report, 1110 Jackson Street, Oakland, CA,* are true and correct to the best of my knowledge.

Sincerely yours,

Everett Cleveland Jr.
11J Family Housing, L.P.

1825 San Pablo Avenue, suite 200 Oakland, CA 94612 **T:** (510) 287-5353 | **F:** (510) 763-4143

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

1 December 2016

Mr. Keith Nowell, PG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Re: Additional Environmental Site Assessment Report
Fuel Leak Case RO0003232
1110 Jackson Street
Oakland, California
Langan Proposal No.: 750622603

Dear Mr. Nowell,

On behalf of the East Bay Asian Local Development Corporation (EBALDC), Langan Engineering & Environmental Services (Langan) is pleased to submit this *Additional Environmental Site Assessment Report* related to the former petroleum underground storage tanks (USTs) located at 1110 Jackson Street in Oakland, California (Site). The work described herein was completed in accordance with our *Work Plan for Phase II Environmental Site Assessment* dated 10 November 2016 (work plan), detailing sub-slab, soil gas, soil, and groundwater sampling and analytical methods. This work was required by the Alameda County Department of Environmental Health (ACEH) related to the former USTs and associated open fuel leak case RO0003232 to evaluate potential releases related to the former USTs.

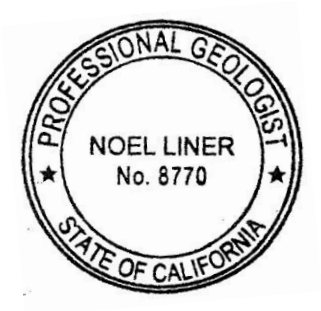
This report describes of the work conducted by Langan to assess potential soil, soil vapor and groundwater impacts related to the former USTs, as outlined in our recent *Work Plan for Phase II Environmental Site Assessment* dated 10 November 2016. The objective of Langan's work was to characterize soil, soil vapor and groundwater related to subsurface release of petroleum hydrocarbons and associated contaminants downgradient of the former USTs, and to evaluate the potential of vapor intrusion prior to building occupancy.

Based on the results of our investigation, the detected soil gas and sub-slab soil vapor concentrations are well below both residential and commercial screening levels, and therefore, the building is suitable for occupancy with regards to vapor intrusion.

If you have any questions or need any information clarified, please call Joshua Graber at (510) 874-7086.

Sincerely yours,
Langan Engineering and Environmental Services, Inc.

Noel Liner, PG
Project Geologist



Joshua Graber, CHMM
Senior Project Manager

Karianne Staehlin
Senior Staff Scientist

ADDITIONAL ENVIRONMENTAL SITE ASSESSMENT REPORT
1110 Jackson Street
Oakland, California 94612

Prepared For:

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Prepared By:

Langan Engineering and Environmental Services, Inc.
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1 December 2016
750622603

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1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. (Langan), has prepared this *Additional Environmental Site Assessment Report* (Report) documenting environmental sampling activities conducted at 1110 Jackson Street (site, Figure 1) on behalf of the East Bay Asian Local Development Corporation (EBALDC). EBALDC is currently finishing construction of an at-grade, 5-story mixed-use building that will occupy the entire footprint of the L-shaped lot.

During building construction in April 2016, three gasoline containing underground storage tanks (USTs) were encountered beneath the Jackson Street sidewalk, adjacent to the current site development (Figure 2). Additionally, in November 2016, a fourth diesel UST was encountered beneath the Jackson Street sidewalk and adjacent to the current site development. At the time of this Report, all four of the USTs have been removed. The approximate locations of the four former USTs (UST #1 through UST #4) are shown on Figure 2.

The purpose of this environmental work conducted at the site was to delineate the potential extent of petroleum impacts in soil and groundwater related to the former USTs and to evaluate the site for vapor intrusion by collecting sub-slab and soil gas samples. Soil and groundwater data collected during these and future activities will be evaluated relative to criteria found in the State Water Quality Control Board's (RWQCB) *Low Threat Underground Storage Tank Case Closure Policy* (LTCP), the results of which will be presented to ACEH in a follow-up report documenting our assessment and providing our recommendations for closure, if appropriate.

The following is a summary of our environmental assessment; including a site description, site history, summary of our environmental investigation activities and analytical testing methods, analytical results, and recommendations for next steps. Boring logs are included as Appendix A.

1.1 Site Description and History

The site is located at 1110 Jackson Street in Oakland, California (Figure 1). The site is bound by 12th Street to the north, Jackson Street to the west, 11th Street to the south and multiple buildings to the east. The site is L-shaped, with long dimensions measuring approximately 190 feet by 200 feet, along 11th and Jackson Streets, respectively.

Historical records indicate that the site was developed with a hospital in 1889, which was replaced by private residences by 1903. Two automobile repair garages were operating on the northern portion of the site in 1911 and two gasoline USTs were reported to be located

beneath Jackson Street near the garages (three gasoline USTs were later discovered). Private residences occupied the southern half of the site in 1911. By 1939, the site was fully developed with the two automobile repair garages in the north, three private residences in the south, and a new commercial building at the southeastern corner of the site. By 1946, one of the northern automobile repair garages had been removed and, by 1950, the three southern private residences had been removed from the site and both areas were operated as at-grade parking lots. The site was occupied by at-grade parking lots and the second commercial building, consisting of a store and a glass works through the 1950s. In 1960, a store was constructed in the southwestern corner of the site, and sometime between 1965 and 1967, a very small warehouse structure was constructed in the southeastern portion of the site adjacent to the glass works facility. These buildings remained on the site through 2006 and reportedly were demolished in 2007 (Essel, 2015). The site remained vacant from 2007 until construction of the current development, which began in 2015.

EBALDC is currently finishing construction of an at-grade, 5-story mixed-use building that will occupy the entire footprint of the L-shaped lot. The ground floor will be comprised primarily of openly ventilated parking, which significantly limits the potential for vapor intrusion, with a small portion of retail (commercial) space located in the southwestern portion of the building (Figure 2). The remaining floors will be residential units. At the time of this Report, the foundation and structure of the building are complete and the internal fixtures and external sidewalks are in progress.

2.0 PREVIOUS INVESTIGATIONS

Langan reviewed the following environmental reports, previously prepared for the site, which document soil and groundwater sampling and analytical testing conducted prior to our November 2016 Additional Environmental Site Assessment:

- Tetra Tech EM, Inc. (Tetra Tech), *Limited Phase II Environmental Site Assessment, Jackson Tower, Oakland, California* dated 18 January 2006;
- Golden Gate Tank Removal (GGTR), *Underground Storage Tank Closure Report, 1110 Jackson Street, Oakland, California* dated 23 June 2016; and
- Langan, *Underground Storage Tank Closure Investigation Report, 1110 Jackson Street, Oakland California* dated 13 September 2016.

2.1 2006 Limited Phase II Environmental Site Assessment

In December 2005, Tetra Tech conducted a Limited Phase II Environmental Site Assessment (ESA) to evaluate potential petroleum impacts at site that may have been associated with an adjacent property. Tetra Tech advanced three borings (SB-1, SB-2, and SB-3), located approximately 50 to 60 feet from the former UST locations in both the northeast and southeast directions, as illustrated on Figure 2. Soil samples were collected at approximately 12 feet below the ground surface (bgs) from each boring. Groundwater was encountered at depths ranging between 20 to 22 feet bgs. One groundwater sample was collected from each boring. Soil and groundwater samples were analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) and metals. TPH as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo) were not detected in any of the samples analyzed.

Tetra Tech's Limited Phase II ESA report recommended that no further assessment of the site was necessary.

2.2 UST Removal

In April 2016, three USTs were encountered beneath the Jackson Street sidewalk, during site development activities. The USTs, designated as UST #1, #2, and #3, all contained gasoline, and were approximately 265-, 265- and 110-gallons, respectively. The locations of UST #1, #2, and #3 are shown on Figure 2. Based on a review of Sanborn maps, the USTs were likely in place since prior to 1911. The three former USTs were found to be in generally poor condition, upon removal.

Golden Gate Tank Removal (GGTR) removed the three gasoline USTs from beneath the Jackson Street sidewalk and conducted the corresponding soil excavation and soil sampling activities on 15 April 2016. UST removal activities were completed under the observation of Langan personnel and representatives from ACEH and the Oakland Fire Department (OFD). After the USTs and associated piping were removed, GGTR collected confirmation soil samples from excavation sidewalls and bottoms. Soil samples collected from beneath former UST #2 detected elevated concentrations of petroleum hydrocarbons.

Based on the elevated confirmation sample results and a recommendation by ACEH, GGTR returned to the site on 4 May 2016 to perform over-excavation and additional confirmation sampling activities. GGTR over-excavated from the north side of UST #1 to the south side of UST #3 to a depth of 12 feet below bgs. TPHg was detected at concentrations ranging from

6.96 milligrams per kilogram (mg/kg) to 6,320 mg/kg in soil collected from the over-excavation sidewalls and bottoms.

Following over-excavation and additional confirmation sampling activities associated with former USTs #1, #2, and #3, ACEH requested collection of groundwater samples near the former UST locations to evaluate potential impacts of petroleum and petroleum related compounds to groundwater.

2.3 Gasoline UST Investigation

On 11 August 2016, Gregg Drilling & Testing, Inc. (Gregg Drilling) of Martinez, California, a California-licensed drilling company, under the direction of Langan advanced four borings (EB-1 through EB-4) in the vicinity of the former USTs. Environmental borings EB-1 through EB-3 were advanced in the vicinity of former USTs #1, #2 and #3, and environmental boring EB-4 was advanced east and downgradient of EB-1 through EB-3. All borings were advanced by Gregg Drilling with a truck-mounted drill rig using hydraulically-driven direct push technology, to a maximum depth of 28 feet bgs. Langan observed all drilling activities and the approximate locations of each of the four environmental borings (EB-1 through EB-4) are shown on Figure 2.

Groundwater samples were collected from each of the four environmental borings EB-1 through EB-4. Groundwater was encountered at approximately 21 feet bgs in each borehole. Temporary 1-inch diameter PVC well casings were installed in each well. The lower ten foot section of each casing was comprised of a slotted well screen to facilitate groundwater sample collection.

Due to elevated concentrations of TPH in soil at the former UST #2 location, Langan collected three soil samples from boring EB-2. Additional samples were collected at depths of 13, 15.5 and 22.5 feet bgs. Samples were collected based on field observations including visual and olfactory indications of contamination and results of organic vapor measurements using a photoionization detector (PID).

Soil and groundwater samples collected during this environmental investigation indicated that petroleum hydrocarbons and related compounds are present in subsurface soil and groundwater. Elevated TPHg concentrations were detected in deeper subsurface soil (greater than ten feet bgs) in the vicinity of former UST #2. Elevated concentrations of TPHg and TPHd (with significant contribution from TPHg-range hydrocarbons) were detected in borings EB-2

and EB-4, which were advanced directly through the former location of UST #2 and approximately 12 feet downgradient to the east, respectively. Benzene was detected in the EB-2 groundwater sample at concentrations which exceed the commercial vapor intrusion environmental screening levels (ESLs), but not in the EB-4 sample, located closest to the existing building.

A copy of Langan's *Underground Storage Tank Closure Investigation Report, 1110 Jackson Street, Oakland, California* is included as Attachment B.

2.4 Diesel UST

In November 2016, a fourth UST, an approximately 750-gallon diesel UST, was encountered beneath the Jackson Street sidewalk, during site development activities. The approximate location of the UST, designated as UST #4, is shown on Figure 2.

On 23 November 2016, GGTR removed UST #4 from beneath the Jackson Street sidewalk and conducted the corresponding soil excavation and soil sampling activities. UST removal activities were completed under the observation of Langan personnel and a representative from both the ACEH and the OFD. After the UST was removed, GGTR collected soil samples from the soil beneath former UST #4. The soil samples collected had both visual and olfactory indications of petroleum hydrocarbon contamination. Soil samples collected from beneath UST #4 contained concentrations of TPHd, naphthalene, and xylenes and therefore, over-excavation is planned to take place at UST #4 on 2 December 2016 followed by additional soil and groundwater sampling. A summary of the over-excavation and additional sampling results will be presented in a subsequent data report.

3.0 BUILDING SURVEY

In order to appropriately plan for the next phase of investigation, Langan performed a building survey and inventory at the site on 28 October 2016 in the presence of representatives from EBALDC. The building survey and inventory was completed to identify future sub-slab, soil gas, soil, and groundwater sample locations and potential preferential pathways for vapor migration. The survey consisted of evaluating all accessible areas with a PID capable of measuring volatile organic vapors down to the part per billion (ppb) level. During the survey, the PID was used to assess background indoor air concentrations and possible preferential pathways for soil gas

migration such as gaps and cracks in building foundations, slab penetrations (such as piping and utility lines), floor drains, sumps, fire suppression lines, and sanitary sewer cleanouts.

The building is currently undergoing active construction in preparation for occupancy in January 2017. Construction activities currently underway include painting, window installation, elevator servicing, flooring and appliance and exterior siding installation. Additionally, we also noted vehicular traffic and the use of generators onsite. All of these activities can contribute to elevated PID readings. In general, PID readings across the building were consistent with an active construction site and no apparent preferential pathways were registering elevated readings.

3.1 Interior Building Observations

The majority of the first floor of the building is parking, which is openly and naturally ventilated with outside air via the vehicle entrance and exit and grated openings in the walls. The southwestern portion of the first floor is comprised of a lobby, bathrooms, elevator and elevator room and a commercial/retail space, which will be enclosed. There are stairwells on the northeastern and southeastern corners of the building and a pump room, boiler room, and maintenance room along the eastern side of the building. These internal features are illustrated on Figure 2.

Langan personnel surveyed the interior of the building noting the presence and use of numerous construction materials, including adhesives, paints, and cleaning chemicals (including solvents). Since the site is an active construction site and the first floor is the main parking area, numerous vehicles were observed to be idling and entering/exiting the building. VOCs are known to be present in the construction materials currently in active use at the building and in vehicular exhaust. The presence of VOCs related to these activities would likely interfere with indoor air sampling and misrepresent the results.

Langan also noted slab penetrations (including floor drains and sanitary sewer cleanouts), and observed the general condition of the building's concrete slab to be in very good condition.

3.2 Ventilation Systems

No heating, ventilation, or air conditioning (HVAC) units were operational on the ground floor of the building. We understand that the future tenant will be responsible for installing an HVAC

unit prior to occupancy of the commercial, ground level (first floor) unit. Active HVAC systems were not observed in the residential units on the upper floors.

4.0 FIELD INVESTIGATION

Langan submitted a *Work Plan for Phase II Environmental Site Assessment* dated 10 November 2016, detailing sub-slab, soil gas, soil, and groundwater sampling activities in order to determine the potential extent of petroleum impacted soil and groundwater, collect additional data to facilitate regulatory closure through the LTCP, and evaluate the site for vapor intrusion risks. The sample types and locations were proposed to evaluate subsurface vapor concentrations spatially covering the site and also near potential preferential pathways (such as subsurface utilities), the extent of the plume in groundwater, and potential soil concentrations. The proposed work consisted of collecting soil and groundwater samples from four environmental borings (EB-5 through EB-8), collecting five soil gas samples from five temporary soil gas wells (SG-1 through SG-5), and collecting five sub-slab samples (SS-1 through SS-5).

The activities completed in accordance with the work plan and the subsequent analytical results are detailed in this report. In addition to the activities proposed in the work plan, Langan also collected one additional sub-slab vapor sample from location SS-6, which is located east of UST #4 just inside the building's footprint. This location was added to evaluate sub-slab concentrations of VOCs and methane closest the location of former to UST #4.

All field activities, including drilling and sampling of sub-slab, soil gas, soil, and groundwater proposed in the work plan were initiated on 8 November 2016 and completed on 17 November 2016. The additional sampling of SS-6 was performed on 30 November 2016.

Prior to drilling and sampling, Langan notified Underground Services Alert (USA) to locate and identify underground utilities throughout the Site. In addition to notifying USA, Langan sub-contracted Subtronic Corporation (Subtronic), a private underground utility locator of Martinez, California, to perform a subsurface utility survey to clear each of the individual sampling locations, designated by Langan, for underground utilities. Subsequent to clearing all sampling locations for underground utilities, Langan sub-contracted Del Secco Diamond Core & Saw (Del Secco), a concrete contractor of Hayward, California, to provide concrete coring services.

4.1 Sub-Slab and Soil Gas Sampling

Sub-slab and soil gas sampling was performed in accordance with Department of Toxic Substances Control (DTSC) documents titled "Advisory—Active Soil Gas Investigation" dated July 2015 and "Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" dated October 2011 and our work plan.

The vapor sampling manifolds consisted of 1/4-inch stainless steel or Teflon tubing, a valve for connecting a luer-lock syringe or 6-liter (L) Summa canister for purging, a maximum 200 milliliters per minute (mL/min) flow regulator, and two vacuum pressure gauges. One pressure gauge was installed between the flow regulator and the well head to monitor the vacuum maintained during the shut-in test and to measure the vacuum applied to the vapor well, and the other was placed after the flow regulator to measure the vacuum pressure within the sample canister. Samples were collected in 1L Summa canisters with an initial vacuum of approximately 30-inches-Hg. New tubing was used for each sample collection.

A shut-in test was performed after the construction of each sampling manifold. The shut-in test consisted of closing the valves at the vapor well head and on the Summa canister, then using a syringe to create a 14- to 20-inches-Hg vacuum within the sampling system. If the vacuum was maintained with less than 10% deviation for five minutes, then the manifold was determined to be sufficiently sealed. Following a successful shut-in test, the valve to the vapor well was placed under a helium shroud and opened.

The helium shroud allows an atmosphere of known helium content to be maintained above the vapor well, which allows for the detection of leaks of ambient air into the vapor well and sample. Helium was used as a leak-check tracer gas using a helium shroud around the vapor well during sampling as a quality assurance/quality control (QA/QC) measure to confirm sample integrity. The helium content within the shroud was maintained at least 20% and monitored with a portable helium detector during purging and sampling. The shroud consisted of a clear plastic box with ports for connecting a helium compressed gas cylinder and the helium detector.

A single purge volume was calculated by adding the pore space volume associated with the filter pack and/or the volume of all of the tubing within the well and the sampling manifold. In accordance with DTSC sampling guidelines, approximately three times the single purge volume was purged from the system. The vapor that was purged was analyzed in real time for

helium with a portable helium detector, to ensure that there were no ambient air leaks into the sampling train. The vapor samples were then collected into Summa canisters until a residual vacuum of approximately 5-inches-Hg was left. The canisters remained under the residual vacuum during transport from the sampling location to the analytical laboratory to indicate if any leaks of ambient air into the canister occurred, none of which were noted.

Sub-Slab Sampling

On 8 November 2016, Langan personnel collected five sub-slab samples (SS-1 through SS-5) from the locations shown on Figure 2. The sub-slab vapor samples were collected from areas closest to identified VOC source areas on the first floor of the building. Three sub-slab vapor samples were collected in the northern half of the parking garage on the first floor and two sub-slab vapor samples were collected within the area proposed for commercial use along the western boundary of the first floor. Additionally, sub-slab sample SS-6 was collected from the location illustrated on Figure 2 on 30 November 2016 to evaluate potential impacts related to former UST #4.

At each location, a 5/8-inch hole was drilled through the approximately 6-inch thick slab and Vapor Pins™ vapor probes were installed and allowed to equilibrate for a minimum of two hours. After the equilibration period, shut-in testing, leak testing (using a helium shroud), and purging was performed prior to sampling at each of the six locations. The flow controllers on the sample trains were set to a maximum rate of 150 milliliters per minute (mL/min). Purge volumes were collected in a laboratory-supplied 6L Summa canister. Following sample collection, Summa canisters were delivered under chain-of-custody protocol to Curtis & Tompkins Analytical Laboratory (C&T), a State of California certified laboratory in Berkeley, California.

Soil Gas Sampling

On 17 November 2016, Langan personnel collected five soil gas samples (SG-1 through SG-5) from the locations shown on Figure 2. Temporary soil gas wells were installed by TEG Northern California (TEG) of Rancho Cordova, California via direct push technology, at depths based on successful vacuum testing. The temporary soil gas wells at locations SG-1, SG-2, SG-4, and SG-5 were installed at an approximate depth of five feet bgs. The temporary soil gas well at location SG-3 was originally proposed to be installed to an approximate depth of eight feet bgs, based on the depth of the site's elevator pit of seven feet bgs. However, the subsurface

material encountered at SG-3 at approximately eight feet bgs indicated more clay content than the other sample locations, leading to a failed vacuum test. Additional attempts were made at location SG-3 to collect soil gas at 10 and 12 feet bgs, both failing the vacuum test. Sufficient soil vapor was present at a depth of 15 feet and therefore, the temporary soil gas well at SG-3 was installed and sampled at an approximate depth of 15 feet bgs.

All temporary soil gas wells were constructed with Nylaflow® tubing with a 1/8-inch inside diameter was connected to a nylon soil gas screen with a 1.5-inch length and 3/8-inch diameter. Monterey kiln-dried sand with 30% porosity was used to install a one foot filter pack, based on DTSC guidance, at the bottom of the vapor well borehole. The 1.5-inch screen was placed at the midpoint of the sand filter pack. A one foot layer of dry bentonite chips was placed above the filter pack followed by hydrated bentonite to the ground surface. The hydrated bentonite serves to create a seal around the sample collection tubing to prevent ambient air intrusion into the soil gas sample. A closed valve was installed at the end of the sample-collection tubing at the surface and the well system was allowed to equilibrate for at least two hours.

After the equilibration period, shut-in testing, leak testing (using a helium shroud), and purging was performed prior to sampling at each of the five locations. The flow controllers on the sample trains were set to a maximum rate of 125 milliliters per minute (mL/min). Approximately three well volumes were purged from the system, using a 60 mL luer-lock syringe. Following sample collection, the 1L Summa canisters were delivered under chain-of-custody protocol to K-Prime Technologies, Inc. (K-Prime), a State of California certified laboratory in Santa Rosa, California.

Sample Delivery and Sample Point Abandonment

Sub-slab and soil gas samples were delivered to the analytical laboratories under chain-of-custody protocol and were analyzed for VOCs by EPA Method TO-15 and methane. Samples were also analyzed for helium to quantify any intrusion of ambient air into the vapor well during sampling and to confirm sample integrity for QA/QC purposes. Subsequent to sub-slab sampling, the Vapor Pins™ were removed and the hole in the concrete slab sealed with hydraulic cement. Subsequent to soil gas sampling, the temporary soil gas wells were abandoned by removing all tubing, sand pack, and bentonite. The boreholes were grouted to just below the ground surface and completed with a concrete patch.

4.2 Soil and Groundwater Sampling

On 16 November 2016, Langan personnel oversaw the drilling of four exploratory environmental borings (EB-5 through EB-8) to a maximum depth of 26.5 feet bgs, for the collection of soil and groundwater samples. All drilling was conducted by Gregg Drilling using hydraulically-driven, direct push technology. Soil sampling was conducted using a macrocore sampler, lined with clean acetylene liners driven 48-inches into the soil. All drilling and sampling locations are shown on Figure 2.

Soil samples were collected at the approximate depths of 4.5 and 8.5 feet bgs. Soil sample ends were covered with Teflon sheets, sealed with plastic end caps, labeled, and stored on ice until delivery to the analytical laboratory. Grab-groundwater samples were collected using a clean stainless steel bailer, decontaminated after each use, and decanted into laboratory supplied containers, labeled, and stored on ice until delivery to the analytical laboratory.

All soil and grab-groundwater samples were delivered under chain-of-custody control to McCampbell Analytical, Inc. (McCampbell), a California Department of Public Health certified analytical laboratory in Pittsburg, California.

Boring logs from our investigation are presented in Appendix A as Figures A-1 through A-8. The material encountered was classified according to the soil classification system described on Figure A-9.

Following sample collection, each boring was properly abandoned via tremie grouting, in accordance with Alameda County guidelines. The surface of each boring was completed with a concrete patch, to match the existing surface of the parking garage's concrete slab.

5.0 SUBSURFACE CONDITIONS

Subsurface conditions at the site, based on results of this investigation and previous investigations (conducted by Langan and others), indicate the near surface soil in the upper five feet generally consists of interlayered loose to moderately dense sand, all with varying amounts of silt, clay, and gravel.

The subsurface profile generally consists of layers of fine to coarse sands with varying amounts of silts and clays. At depths ranging from eight to ten feet bgs, the general density and moisture of the sandy soil was observed to increase. Groundwater is located at approximately

20 feet bgs. Seasonal fluctuations in rainfall influence groundwater levels and may cause several feet of variation. Groundwater predominantly flows east towards Lake Merritt, which is located approximately ¼ mile away from the site.

6.0 SAMPLE SELECTION AND ANALYTICAL TESTING

The sub-slab samples were submitted under appropriate chain-of-custody documentation to C&T for the following analysis:

- VOCs by EPA Method TO-15;
- Methane by ASTM D-1946; and
- Helium by ASTM D-1946.

The soil gas samples were submitted under appropriate chain-of-custody documentation to K-Prime for the following analysis:

- VOCs by EPA Method TO-15;
- Methane by ASTM D-1946; and
- Helium by ASTM D-1946.

The soil samples were submitted under appropriate chain-of-custody documentation to McCampbell, for the following analyses:

- TPHg, TPHd, and TPHmo by EPA Method 8015;
- VOCs by EPA Method 8260;
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8310; and
- Leaking underground fuel tank (LUFT) 5 metals by EPA Method 6020.

The grab groundwater samples were submitted under appropriate chain-of-custody documentation to McCampbell for the following analyses:

- TPHg, TPHd, and TPHmo by EPA Method 8015;

- VOCs by EPA Method 8260; and
- PAHs by EPA Method 8310.

7.0 LABORATORY TEST RESULTS AND EVALUATION

The laboratory analytical results are summarized in Tables 1 through 4. Copies of the laboratory analytical reports are presented in Appendix B. The analytical results are discussed in the following sections.

7.1 Sub-Slab Results

Sub-slab analytical results are summarized in Table 1. Analytical results were compared to the RWQCB Tier 1 vapor ESLs summary table (RWQCB, February 2016 [Rev. 3]). The Tier 1 ESLs are the most conservative of the human health risk levels and odor nuisance levels.

Of the six sub-slab samples analyzed, a total of 12 VOCs, including acetone, benzene, 2-butanone or methyl ethyl ketone (MEK), carbon disulfide, cyclohexane, dichlorodifluoromethane or Freon 12, Freon 113, n-hexane, isopropanol, toluene, trichlorofluoromethane, and xylenes were detected at concentrations at or above laboratory method reporting limits. None of the VOCs detected in any of the six sub-slab samples analyzed exceeded their respective Tier 1 ESLs, where established.

Sub-slab samples were also analyzed for methane and helium. Methane was not detected in any of the six sub-slab samples collected with reporting limits ranging from 0.19 to 0.22 percent by volume (%v), which is significantly lower than the lower explosive limit of 5%v.

The laboratory also analyzed the samples for helium to quantify any intrusion of ambient air into the sub-slab vapor point during sampling and to confirm sample integrity for QA/QC purposes. Helium was only detected in one of the six samples at a low concentration of 0.41%v. Per the DTSC *Advisory Active Soil Gas Investigation* dated July 2015, "An ambient air leak up to 5 %v is acceptable, if quantitative tracer testing is performed by shrouding." Based on the helium concentration in the shroud at this location (30%) and the detected helium %v, the ambient air intrusion was calculated to be 0.1%v and therefore, the ambient air leak does not significantly impact the validity of the sub-slab analytical results.

7.2 Soil Gas Results

Soil gas analytical results are summarized in Table 1. Analytical results were compared to the RWQCB Tier 1 vapor ESLs summary table (RWQCB, February 2016 [Rev. 3]). The Tier 1 ESLs are the most conservative of the human health risk levels and odor nuisance levels.

Of the five soil gas samples analyzed, a total of 11 VOCs, including acetone, benzene, 2-butanone or MEK, carbon disulfide, cyclohexane, dichlorodifluoromethane or Freon 12, ethylbenzene, n-hexane, toluene, trichlorofluoromethane, and xylenes were detected at concentrations at or above laboratory method reporting limits. None of the VOCs detected in any of the five soil gas samples analyzed exceeded their respective Tier 1 ESLs, where established.

Additionally, two of the five soil gas samples analyzed had detected concentrations of methane above the laboratory reporting limit (0.100 %v). Soil gas samples SG3-2016-11-17 and SG5-2016-11-17 detected low concentrations of methane at 1.22 %v and 1.21 %v, respectively, which do not exceed the 5 %v lower explosive limit (LEL) for methane.

7.3 Soil Results

Soil samples were collected from depths of 4.5 and 8.5 feet bgs from each soil boring. Soil analytical results for parameters other than metals are summarized in Table 2 and were compared to the RWQCB Tier 1 ESLs summary table (RWQCB, February 2016 [Rev. 3]).

TPHg was not detected at or above the laboratory reporting limit of 1.0 mg/kg in any of the eight samples analyzed. TPHd was detected above the laboratory reporting limit of 1.0 mg/kg in one of the eight samples analyzed, at a concentration of 15 mg/kg. TPHmo was detected above the laboratory reporting limit of 5.0 mg/kg in two of the eight samples analyzed, at concentrations of 160 mg/kg and 5.1 mg/kg. None of the low concentrations of petroleum hydrocarbons detected exceed their respective ESLs.

No VOCs were detected above their respective Tier 1 ESLs, as shown in Table 2. Naphthalene was the only VOC detected in the eight soil samples analyzed. Naphthalene was detected in a single sample, EB-6-4.5, at a concentration of 0.010 mg/kg, which does not exceed the Tier 1 ESL of 0.033 mg/kg.

Low concentrations of PAHs were detected in two of the eight soil samples analyzed, and all detections were below their respective Tier 1 ESLs, as shown in Table 2.

Soil analytical results for metal parameters are summarized in Table 3 and were compared to RWQCB Tier 1 ESLs summary table (RWQCB, February 2016 [Rev. 3]) and general background concentrations for Bay Area soils for comparison purposes.

Total lead was detected in each of the eight soil samples analyzed at concentrations ranging from 3.0 mg/kg to 150 mg/kg. Two soil samples (EB-6-4.5 and EB-8-4.5) detected concentrations of total lead at 150 mg/kg and 97 mg/kg, respectively. Total lead was the only metal detected in the soil samples analyzed at concentrations that exceeded its Tier 1 ESL, 80 mg/kg. However, all total lead concentrations detected were below the commercial/industrial ESL of 320 mg/kg. However, considering that these concentrations are beneath the building, these detections are not considered a significant environmental concern for the site.

All other metal concentrations were within normal[1] background ranges found in the western United States, specifically the San Francisco Bay Area and did not exceed their respective Tier 1 ESLs, where established.

7.4 Grab Groundwater Results

Grab groundwater analytical results are summarized in Table 4 and were compared to the RWQCB Tier 1 ESLs summary table (RWQCB, February 2016 [Rev. 3]).

TPHg was not detected above the laboratory reporting limit of 50 micrograms per liter (µg/L) in any of the four samples analyzed. TPHd was detected above the laboratory reporting limit in two of the four samples analyzed, at concentrations of 70 µg/L and 290 µg/L. Sample EB-8-GW detected TPHd at a concentration of 70 µg/L, which does not exceeds the Tier 1 ESL of 100 µg/L. Sample EB-6-GW detected TPHd at a concentration of 290 µg/L, which exceeds the Tier 1 ESL of 100 µg/L. TPHmo was detected above the laboratory reporting limit in each of the four samples analyzed at concentrations ranging from 100 µg/L to 2,800 µg/L, all of which meet or exceed the Tier 1 ESL of 100 µg/L.

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[1] Environmental Resources Management. *Feasibility Study, Hookston Station, Pleasant Hill, California*. Appendix A, Table A-2, "Comparison of Background Concentrations of Metals in Bay Area Soils," July 2006.

No VOCs were detected in groundwater above their respective Tier 1 ESLs. Trace concentrations of t-butyl alcohol (TBA) and tetrachloroethylene (PCE) were the only VOCs detected in the grab groundwater samples analyzed. Both concentrationswere below their respective Tier 1 ESLs of 12 µg/L and 3.0 µg/L.

No PAHs were detected in groundwater above their respective Tier 1 ESLs. Acenaphthylene was the only PAH detected in the grab groundwater samples at concentrations ranging from 0.133 µg/L and 0.607 µg/L. None of the detected concentrations of acenaphthylene exceeded the Tier 1 ESLs of 30 µg/L.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Langan, on behalf of the EBALDC, has prepared this Report for the 1110 Jackson Street (site) development in Oakland, California (Figure 1). EBALDC is currently constructing an at-grade, 5-story, mixed-use building that will occupy the entire footprint of the site. The ground floor will be comprised primarily of openly ventilated parking with a small portion of retail (commercial) space located in the southwestern portion of the building (Figure 2). The remaining floors will be residential units. The foundation and structure of the building are complete and the internal fixtures and external sidewalks are in progress, at this time.

During construction, four USTs (three containing gasoline and one containing diesel) were encountered beneath the Jackson Street sidewalk, adjacent to the current site development, as shown on Figure 2. Preliminary soil and groundwater samples collected from the areas surrounding the former USTs #1, #2, and #3, indicate the soil and groundwater are impacted by TPHd and TPHmo; however, the impacts appear to be limited.

Given the current site development and proposed site use, the purpose of this Additional Environmental Site Assessment was to 1) delineate the potential extent of petroleum impacted soil and groundwater; 2) collect data that may be used to evaluate subsurface conditions to facilitate regulatory site closure under the State Water Resources Control Board's LTCP; and 3) evaluate the site for vapor intrusion by performing a building survey and collecting sub-slab and soil gas samples.

The analytical results of our subsurface investigation indicate that soil, soil gas and sub-slab vapor are not significantly impacted by the releases associated with the former USTs beneath the building. The soil analytical results indicate little to no impact to the soil beneath the

building, and do not represent a significant environmental concern to the site. Based on the lack of VOCs detected in sub-slab and soil gas samples and a depth to groundwater of over 20 feet, it is our opinion that vapor intrusion is not a significant concern at the site.

Groundwater beneath the site has been impacted by TPHd and TPHmo downgradient of the former USTs but impacts beneath the building appear to be limited. Trace concentrations of VOCs were detected in two groundwater samples and PAHs were detected in three groundwater samples at concentrations below their respective Tier 1 ESLs.

Based on the recent removal of the four former USTs and the over-excavation of the visually impacted soil material encountered during the UST removal activities, it is Langan's opinion that the primary source of site contamination has been removed and remediated to the extent practically feasible during the ongoing site development activities. We expect petroleum hydrocarbons detected in groundwater will likely naturally attenuate over time.

9.0 NEXT STEPS

Based on the discovery of UST #4, Langan proposes to collect additional groundwater samples downgradient of former UST #4 to evaluate groundwater conditions related to this UST with the intent to facilitate closure under the LCTP. We will coordinate this next sampling effort with EBALDC and the ACEH prior to implementation.

10.0 LIMITATIONS

Descriptions of specific field activities and historical events are based on our observations and on information provided by others. The opinions and information presented in this report apply to site conditions and the information that was available at the time the work was performed and do not apply to changes of which we are not aware or have not had the opportunity to evaluate. Langan makes no guarantees or warranties with respect to the accuracy or completeness of this information.

11.0 REFERENCES

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TABLES

Table 1
Volatile Organic Compound Analytical Results in Vapor
1110 Jackson Street
Oakland, California

Sample ID	Date Sampled	Depth	Acetone	Benzene	2-Butanone (MEK)	Carbon Disulfide	Cyclohexane	Dichlorodi-fluoromethane (Freon 12)	Trichlorotri-fluoroethane (Freon 113)	Ethylbenzene	n-Hexane	Isopropanol	Naphthalene	Toluene	Trichloro-fluoro-methane	Xylenes	All Other VOCs	Methane	Helium
Sub-slab Vapor Samples		(feet)	($\mu g/m^3$)															%v	
SS-1	11/08/16	–	370	9.4	32	31	38	< 5.3	< 8.2	< 4.7	7.3	16	< 23	16	10	8.5	< 2.2 - < 11	< 0.22	< 0.22
SS-2	11/08/16	–	160	< 3.0	5.3	< 3.0	< 3.3	< 4.7	< 7.3	< 4.1	< 3.3	12	< 20	< 3.6	15	< 4.1	< 2.0 - < 10	< 0.19	< 0.19
SS-3	11/08/16	–	610	< 3.4	11	< 3.3	< 3.7	< 5.3	< 8.2	< 4.6	< 3.8	15	< 22	< 4.0	7.8	< 4.6	< 2.2 - < 11	< 0.21	< 0.21
SS-4	11/08/16	–	330	< 3.3	30	< 3.3	< 3.6	7.2	< 8.0	< 4.5	< 3.7	17	< 22	4.5	19	< 4.5	< 2.2 - < 11	< 0.21	< 0.21
SS-5	11/08/16	–	230	< 4.9	11	< 4.8	< 5.3	< 7.6	< 12	< 6.6	< 5.4	< 15	< 32	< 5.8	12	< 6.6	< 3.2 - < 16	< 0.31	< 0.31
SS-6	11/30/16	–	230	< 3.0	8.7	< 2.9	3.9	< 4.6	12	< 4.0	< 3.3	< 9.1	< 20	< 3.5	23	< 4.0	< 1.9 - < 9.9	< 0.19	0.41
Soil Gas Samples		(feet)	($\mu g/m^3$)															%v	
SG1-2016-11-17	11/17/16	5.0	70.2	14.2	12.6	< 6.23	14.1	30.4	< 7.66	< 4.34	9.27	< 2.46	< 5.24	28.3	13.6	17.41	< 2.07 - < 10.7	< 0.100	< 0.100
SG2-2016-11-17	11/17/16	5.0	60.2	5.05	< 5.9	23.2	6.92	38.3	< 7.66	< 4.34	< 7.05	< 2.46	< 5.24	10.8	13.1	< 4.34	< 2.07 - < 10.7	< 0.100	< 0.100
SG3-2016-11-17	11/17/16	15.0	94.6	22.3	23.5	8.22	59.9	6.38	< 7.66	6.12	114	< 2.46	< 5.24	35.8	7.59	31.6	< 2.07 - < 10.7	1.22	< 0.100
SG4-2016-11-17	11/17/16	5.0	53.1	17.2	16	9.12	24	7.67	< 7.66	< 4.34	17.4	< 2.46	< 5.24	28.6	9.44	15.93	< 2.07 - < 10.7	< 0.100	< 0.100
SG5-2016-11-17	11/17/16	5.0	< 4.74	< 3.19	< 5.9	< 6.23	< 6.88	7.81	< 7.66	< 4.34	< 7.05	< 2.46	< 5.24	< 3.77	< 5.62	< 4.34	< 2.07 - < 10.7	1.21	< 0.100
Tier 1 ESLs			15,000,000	48	2,600,000	NE	NE	NE	NE	560	NE	NE	41	160,000	NE	52,000	Various	5*	–

Notes:
MEK - Methyl ethyl ketone
VOCs - Volatile organic compounds
$\mu g/m^3$- Micrograms per cubic meter
%v - Percent by volume
< 5.3 - Analyte was not detected above the laboratory reporting limit (5.3 $\mu g/m^3$)
NE - Environmental screening level not established
Various - Analysis of multiple compounds with various Tier 1 ESLs
***** - Lower Explosive Limit (LEL) and not Tier 1 ESL
– - Not applicable
Tier 1 ESLs - RWQCB Environmental Sub-slab and Soil Gas Screening Levels based on a generic conceptual site model designed for use at most sites. The Tier 1 ESL summary table is generally derived from the most conservative ESL for each compound (February 2016 [Rev.3])

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Table 2
Non-Metal Analytical Results in Soil
1110 Jackson Street
Oakland, California

Sample ID	Depth	Date Sampled	TPHg	TPHd	TPHmo	VOCs		PAHs							
						Naphthalene	All Other VOCs	Benzo (a) Anthracene	Benzo (a) Pyrene	Chrysene	Fluor-anthene	2-Methyl-naphthalene	Phen-anthrene	Pyrene	All Other PAHs
	(feet)		(mg/kg)												
EB-5-4.5	4.5	11/16/16	< 1.0	< 1.0	< 5.0	< 0.0050	< 0.0040 - < 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EB-5-8.5	8.5	11/16/16	< 1.0	< 1.0	< 5.0	< 0.0050	< 0.0040 - < 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EB-6-4.5	4.5	11/16/16	< 1.0	15	160	0.010	< 0.0040 - < 0.10	0.10	< 0.10	< 0.10	0.31	0.24	0.58	0.26	< 0.10
EB-6-8.5	8.5	11/16/16	< 1.0	< 1.0	< 5.0	< 0.0050	< 0.0040 - < 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EB-7-4.5	4.5	11/16/16	< 1.0	< 1.0	< 5.0	< 0.0050	< 0.0040 - < 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EB-7-8.5	8.5	11/16/16	< 1.0	< 1.0	< 5.0	< 0.0050	< 0.0040 - < 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EB-8-4.5	4.5	11/16/16	< 1.0	< 1.0	5.1	< 0.0050	< 0.0040 - < 0.10	0.0078	0.0061	0.0081	0.011	< 0.0050	0.0056	0.013	< 0.0050
EB-8-8.5	8.5	11/16/16	< 1.0	< 1.0	< 5.0	< 0.0050	< 0.0040 - < 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Tier 1 ESLs			100	230	5,100	0.033	Various	0.16	0.016	3.8	60	0.25	11	85	Various

Notes:
TPHg - Total petroleum hydrocarbons as gasoline
TPHd - Total petroleum hydrocarbons as diesel
TPHmo - Total petroleum hydrocarbons as motor oil
VOCs - Volatile organic compounds
PAHs - Polynuclear aromatic hydrocarbons
mg/kg - Milligrams per kilogram
< 1.0 - Analyte was not detected above the laboratory reporting limit (1.0 mg/kg)
Various - Analysis of multiple compounds with various Tier 1 ESLs
Tier 1 ESLs - RWQCB Environmental Soil Screening Levels based on a generic conceptual site model designed for use at most sites. The Tier 1 ESL summary table is generally derived from the most conservative ESL for each compound (February 2016 [Rev.3])

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Table 3
Metal Analytical Results in Soil
1110 Jackson Street
Oakland, California

Sample ID	Depth	Date Sampled	Cadmium	Chromium	Lead	Nickel	Zinc
	(feet)		(mg/kg)				
EB-5-4.5	4.5	11/16/16	< 0.25	38	3	19	18
EB-5-8.5	8.5	11/16/16	< 0.25	50	3.7	38	30
EB-6-4.5	4.5	11/16/16	< 0.25	36	**150**	37	78
EB-6-8.5	8.5	11/16/16	< 0.25	49	3.3	34	26
EB-7-4.5	4.5	11/16/16	< 0.25	36	9.4	18	18
EB-7-8.5	8.5	11/16/16	< 0.25	69	4.4	48	34
EB-8-4.5	4.5	11/16/16	< 0.25	38	**97**	20	98
EB-8-8.5	8.5	11/16/16	< 0.25	70	4.2	49	32
Background [Metal] in Bay Area Soils*			0.27-3.3	10-142	4.8-65	16-144	33-282
Tier 1 ESLs			39	NE	80	86	2,300

Notes:
mg/kg - Milligrams per kilogram
< 0.25 - Analyte was not detected above the laboratory reporting limit (0.25 mg/kg)
Bold - Detected concentration is at or above at least one established regulatory environmental screening level
*Background concentration ranges of metals in Bay Area soils, Appendix A, Table A-2 from Environmental Resources Management. *Feasibility Study, Hookston Station, Pleasant Hill, California.* July 2006
NE - Environmental screening level not established
Tier 1 ESLs - RWQCB Environmental Soil Screening Levels based on a generic conceptual site model designed for use at most sites. The Tier 1 ESL summary table is generally derived from the most conservative ESL for each compound (February 2016 [Rev.3])

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Table 4
Non-Metal Analytical Results in Grab-Groundwater
1110 Jackson Street
Oakland, California

Sample ID	Date Sampled	TPHg	TPHd	TPHmo	VOCs			PAHs	
					t-Butyl Alcohol (TBA)	Tetrachloro-ethylene (PCE)	All Other VOCs	Acena-phthylene	All Other PAHs
		(µg/L)							
EB-5-GW	11/17/16	< 50	< 50	**420**	< 2.0	< 0.50	< 0.50 - < 10	< 0.0050	< 0.0250 - < 0.0500
EB-6-GW	11/17/16	< 50	**290**	**2,800**	2.0	< 0.50	< 0.50 - < 10	0.607	< 0.0250 - < 0.0500
EB-7-GW	11/17/16	< 50	< 100	**520**	< 2.0	0.68	< 0.50 - < 10	0.161	< 0.0250 - < 0.0500
EB-8-GW	11/17/16	< 50	70	**100**	< 2.0	< 0.50	< 0.50 - < 10	0.133	< 0.0250 - < 0.0500
Tier 1 ESLs		100	100	100	12	3.0	Various	30	Various

Notes:
TPHg - Total petroleum hydrocarbons as gasoline
TPHd - Total petroleum hydrocarbons as diesel
TPHmo - Total petroleum hydrocarbons as motor oil
VOCs - Volatile organic compounds
PAHs - Polynuclear aromatic hydrocarbons
µg/L - Micrograms per liter
< 50 - Analyte was not detected above the laboratory reporting limit (50 µg/L)
Bold - Detected concentration is at or above the established regulatory environmental screening level
Various - Analysis of multiple compounds with various Tier 1 ESLs
Tier 1 ESLs - RWQCB Environmental Groundwater Screening Levels based on a generic conceptual site model designed for use at most sites. The Tier 1 ESL summary table is generally derived from the most conservative ESL for each compound (February 2016 [Rev.3])

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FIGURES



Notes:
1. Aerial imagery provided through Langan's contract with Near Map. Aerial imagery flown on 6/20/16.
2. Map displayed in California State Coordinate System 3, California (Teale) Albers, North American Datum of 1983 (NAD83), US Survey Feet.

0 100 200 400
Feet

N

1110 JACKSON STREETT
Oakland, California

SITE LOCATION MAP

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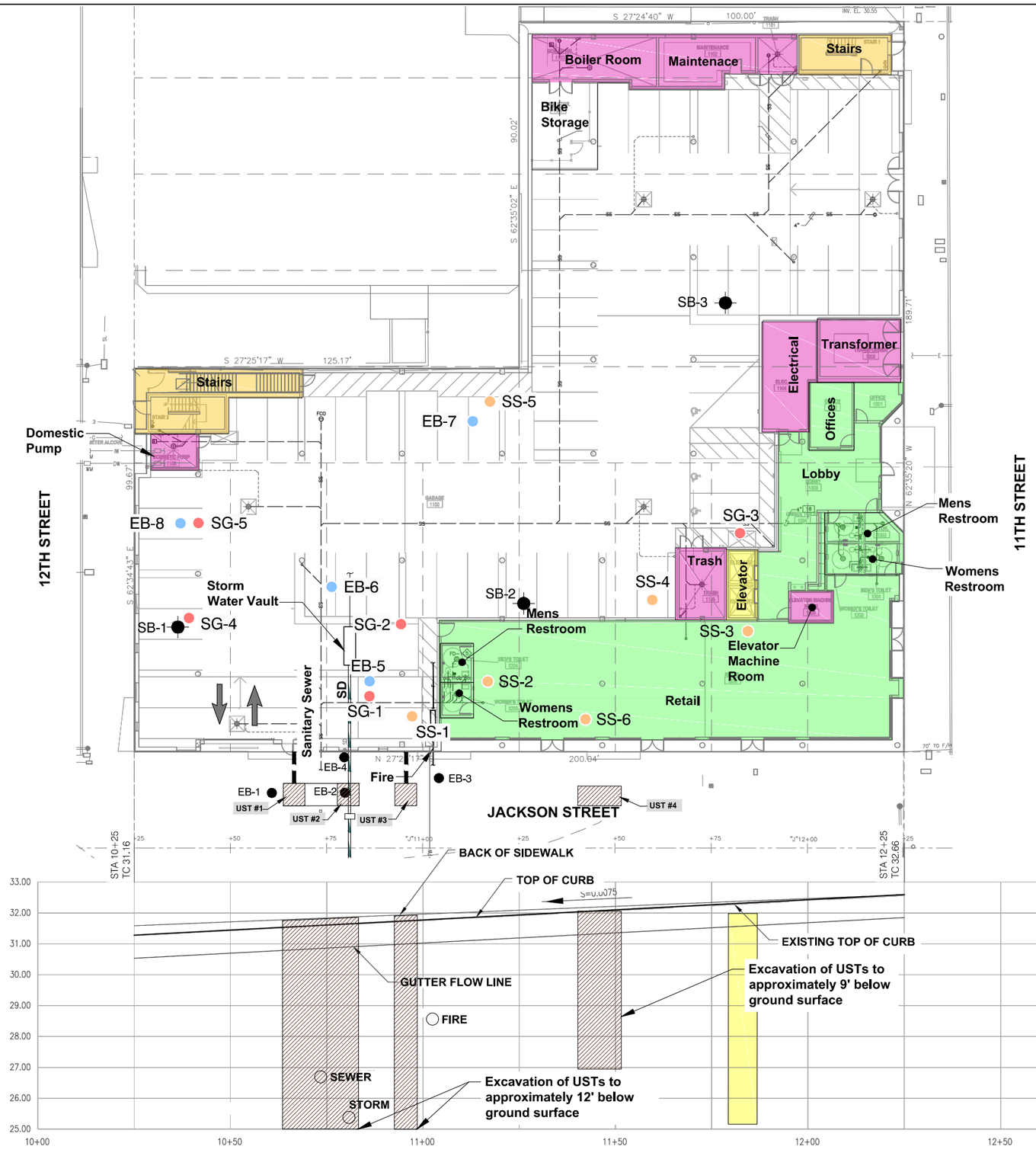
Date 11/29/16	Project 750622603	Figure 1

\\langan.com\data\OAK\data6\750622603\ArcGIS\ArcMap_Documents\Environmental_Figures\Phase2\Site_Location_Map.mxd User: bsaylor



EXPLANATION

- Stair
- Machine rooms, utility rooms, trash, and storage
- Elevator
- Retail lobby/ offices
- Approximate location of former USTs
- SS-1 — Approximate location of sub-slab sample by Langan, November 2016
- SG-1 — Approximate location of soil gas sample by Langan, November 2016
- EB-5 — Approximate location of soil and groundwater sample by Langan, November 2016
- Capped in-place former product pipeline
- EB-1 — Appproximate location of grab groundwater sample by Langan, August 2016
- SB-1 — Approximate location of boring conducted by D.R. Horton, 2005

Notes:
1. Fire and water supply lines are located above ground in building footprint.
2. Elevator pit constructed with waterproof concrete walls and flooring. The bottom of the elevator pit is approximately 7 feet below ground surface.
3. UST piping does not extend beneath building, as it was removed during foundation work. Samples collected beneath former product pipelines during tank removal were non-detect for petroleum hydrocarbons.
4. Soil gas from SG-3 was be collected approximately 15 feet below bottom of slab elevation. Soil gas sample collection was attempted at 8, 10, and 12 feet below ground surface but due to a lack of vapor, no samples were collected.

0 30 Feet
Approximate scale

1110 JACKSON STREET
Oakland, California

SITE PLAN WITH SAMPLING LOCATIONS

Date 11/28/16 | Project No. 750622603 | Figure 2

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APPENDIX A

EXPLORATORY BORING LOGS

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-1** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: J.S. Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							3 inches Concrete
1						SM	SILTY SAND (SM) dark brown, moist, loose, 85% sand, 15% fines
2							
3							CLAYEY SILTY SAND (SC-SM) red-brown, moist, loose
4							
5							
6				36/ 36"			CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, brown mottling, medium-grained
7					1.2	SC- SM	
8				48/ 48"			
9							
10							
11					0.9		
12				48/ 48"			CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, mottling, dense, 85% sand, 15% fines
13							SILTY SAND (SM) yellow-brown, moist, medium dense, 85% sand, 15% fines
14						SM	
15					1.1		dense, mottled, 90% sand, 10% fines
16							
17					1.2	SP	SAND (SP) olive-gray, moist, loose, fine to medium-grained, 95% sand, 5% fines
18				24/ 24"			SILTY SAND (SM) yellow-brown, moist, dense, mottled
19						SM	
20			▽	24/ 24"			SILTY SAND (SM) gray-brown, moist, medium-grained
21							
22				24/ 24"		SC	CLAYEY SAND (SC) yellow-brown, moist, low plasticity, very stiff
23							
24				24/ 24"		SM	SILTY SAND (SM) gray-brown, moist, dense, 85% sand, 15% fines
25					1.2		
26						SP	SAND (SP) gray, moist, dense, 95% sand, 5% fines
27				24/ 24"			
28							wet
29							
30							

Boring terminated at a depth of 27 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 20 feet below ground surface during drilling.

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Project No.:	Figure:
750622602	A-1

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-2** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: T. Houghton Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							4 inches asphalt
1–2						GP	SANDY GRAVEL (GP) dark brown, moist, loose
3–4						GM	GRAVELY SAND (GW) dark brown, moist, loose, 80% sand, 15% gravel, 5% fines
5–6				36/ 36"	16.3	SM	SILTY SAND with GRAVEL (SM) dark brown, moist, loose, medium-grained
7–8							
8–9				48/ 48"			
10–11						SC	CLAYEY SAND (SC) yellow-brown to dark brown, moist, medium- to fine-grained
12–13	EB-2-13				135	SM	SILTY SAND with GRAVEL (SM) dark brown, moist, loose, gravel <.5 inches, medium- to fine-grained
14–15							SILTY SAND (SM) gray, moist, fine- to medium-grained
15–16	EB-2-15.5				235		
16–17				4/ 48"			unable to remove the 16 to 20 feet sample from tube switching to 2 feet runs
18–19						SM	
20–21			▽		282		SILTY SAND (SM) gray-brown, moist, mottled, medium-grained,
22–23	EB-2-22.5			24/ 24"	1300	SM	SILTY SAND (SM) gray-brown, moist, mottled, medium-grained, petroleum odor
23–24						SM	SILTY SAND (SM) gray, wet, dense, fine-grained, petroleum odor
24–25				24/ 24"	1040	SP	SAND (SP) gray, wet, fine-grained gravel layer at 24.5 feet, bottom 3 inches color brown
26–27				24/ 24"	1905	SP	SAND (SP) brown, wet, fine-grained, stong petroleum odor, bottom 5 inches brown
28–29							
30							

Boring terminated at a depth of 28 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 19.95 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622602	A-2

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-3** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: T. Houghton Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							1.5 inches concrete
1						SM	SILTY SAND (SM) yellow-brown, moist, loose, 90% sand, 10% fines
2							
3							
4						SC	CLAYEY SAND (SC) yellow-brown, moist, brown mottling, medium plasticity
5				36/ 36"			CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, brown mottling, low plasticity
6							
7					1.7		
8				48/ 48"			
9							moist, brown mottling, medium dense, 90% sand, 10% fines
10						SC- SM	
11							
12				48/ 48"			
13							moist, mottling, medium dense, 90% sand, 10% fines
14					1.2		
15							
16				24/ 24"	3.1		
17						SP	SAND (SP) red-brown, moist, loose, 95% sand, 5% fines
18					1.5	SM	SILTY SAND (SM) brown, moist, dense, 85% sand, 15% fines
19				24/ 24"			
20			▽			SC	CLAYEY SAND (SC) brown, moist, low plasticity
21					1.5	SM	SILTY SAND (SM) yellow-brown, moist, mottling, dense, , 90% sand, 10% fines
22				24/ 24"			CLAYEY SILTY SAND (SM) yellow-brown, moist, dense, 95% sand, 5% fines
23					1.8	SC- SM	
24							SAND (SP) brown, wet, dense, no odor, 95% sand, 5% fines
25				24/ 24"	2.1		
26						SP	SAND (SP) brown, wet, dense, 95% sand, 5% fines lamination at 26.5 feet
27					2.1		
28							
29							
30							

Boring terminated at a depth of 28 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 20.35 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622602	A-3

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-4** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: T. Houghton Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	SAMPLES: Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
1–5				36/36"		SM	SILTY SAND (SM) brown, moist, loose, medium-grained, gravel less than 1-inch, gravel subrounded to subangular, 80% sand, 10% gravel, 10% fines
5–7					3	SP-SC	SAND with CLAY (SP-SC) yellow-brown, moist, brown mottling, medium plasticity, 85% sand, 15% fines
7–10				48/48"		SC	CLAYEY SAND (SC) yellow-brown, moist, soft, low plasticity
10–12				24/24"	6.1	SM	SILTY SAND (SM) yellow-brown, moist, mottled, medium dense, 85% sand, 15% silt
12–15				24/24"	9.0	SC-SM	CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, dense, fine-grained
15–17				24/24"	24.3	SM	SILTY SAND (SM) gray-brown, moist, medium dense, fine-grained
17–20			▽	24/24"	253	SP	SAND (SP) gray-brown, moist, medium dense, fine-grained, 95% sand, 5% fines
19–21				24/24"	84		moist, dense, medium-grained, petroleum odor, 95% sand, 5%fine moist, dense, fine- to medium-grained, mild petroleum odor, 95% sand, 5% fines
21–24				24/24"	106		moist, dense, brown mottling, fine- to medium-grained, petroleum odor,
24–26				24/24"	961		wet, loose, medium-grained, 95% sand, 5% fines
26–28				24/24"	1482 1274		SAND (SP) gray, wet, dense, medium-grained, 95% sand, 5% fines
29–30							

Boring terminated at a depth of 28 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 20.1 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622602	A-4

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-5** PAGE 1 OF 1
Boring location: See Site Plan, Figure 2		Logged by: K. Staehlin
Date started: 11/16/16	Date finished: 11/16/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
0							6-inch thick concrete slab
1–2					0.3	SP	GRAVELLY SAND (SP) brown, loose to medium dense, moist, subangular gravel less than 0.75-inches in diameter, trace brick and concrete debris, no odor
2–3				36/48	0.2		
3–4						SP	SAND (SP) dark brown, medium dense, moist, no odor
4–5	EB-5-4.5	●			0		brown
5–6							
6–7				36/48	0.1	SC	CLAYEY SAND (SC) orange-brown with gray mottling, medium dense to dense, moist, no odor
7–8							
8–9	EB-5-8.5	●			0		
9–10							
10–11				42/48	0		
11–12							
12–13					0	SP	SAND (SP) orangish-brown, medium dense, moist, no odor
13–14							
14–15				42/48	0		brown, dense
15–16							
16–17					0.1		
17–18				24/24	0.1		reddish-brown to orangish-brown
18–19							
19–20				24/24	0.2		grayish-brown to brown
20–21					0.3		
21–22				24/24	0.1		▽ (11/16/16)
22–23							
23–24				24/24	0		saturated
24–25							
25–26				24/24			
26–27					0		
27–28							
28–29							
29–30							

Boring terminated at a depth of 26.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 21.5 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622603	A-5

TEST ENVIRONMENTAL INCHES 750622603.GPJ T&R.GDT 12/2/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-6** PAGE 1 OF 1
Boring location: See Site Plan, Figure 2		Logged by: K. Staehlin
Date started: 11/16/16	Date finished: 11/16/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							6-inch thick concrete slab
1					0.1	SM	SILTY SAND with GRAVEL (SM) brown, loose to medium dense, dry, no odor moist
2				48/48			
3							
4	EB-6-4.5				0.6		increasing sand
5					0.2		
6				48/48		CL	SANDY CLAY (CL) orangish-brown with gray mottling, medium stiff, slighly-plastic, moist, no odor
7							
8	EB-6-8.5				0	SP	SAND with CLAY (SP) orangish-brown, medium dense, moist, no odor
9							
10					0		
11				48/48			
12					0		dense
13							gray-brown
14					0		
15				48/48		SP	SAND (SP) brown, dense, moist, no odor
16					0		increasing moisture
17							
18				24/24	0		
19							
20				24/24	0		
21					0		
22				36/48			▽ (11/16/16)
23							
24					0		
25					0		
26				16/24	0		
27					0		Hydropunch at 28.5 feet bgs.
28							
29							
30							

Boring terminated at a depth of 28.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 21.5 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622603	A-6

TEST ENVIRONMENTAL INCHES 750622603.GPJ T&R.GDT 12/2/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-7** PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: K. Staehlin
Date started: 11/16/16	Date finished: 11/16/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
0							6-inch thick concrete slab
1					0	SP	SAND with GRAVEL (SP) brown, loose to medium dense, moist, trace brick debris, no odor
2							
3				36/48	0.3		
4	EB-7-4.5	●					
5					0.1		
6					0		orange-brown
7				46/48		SC	CLAYEY SAND (SC) orangish-brown with gray mottling, medium dense, moist, trace brick debris, no odor
8	EB-7-8.5	●			0		
9					0		increasing fines
10				48/48		SP	SAND with trace CLAY (SP) orangish-brown with gray mottling, medium dense to dense, moist, no odor
11					0		
12					0		
13				24/24		SP	SAND (SP) orangish-brown to brown, dense, moist, no odor
14					0		
15							
16				24/24	0		
17							
18				24/24	0		grayish-brown, varying amounts clay
19							
20				24/24			
21					0		▽ (11/16/16)
22				24/24			
23					0		
24				24/24			
25					0		
26				24/24			
27					0		
28							
29							
30							

Boring terminated at a depth of 26.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 21.5 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622603	A-7

TEST ENVIRONMENTAL INCHES 750622603.GPJ T&R.GDT 12/2/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-8** PAGE 1 OF 1
Boring location: See Site Plan, Figure 2		Logged by: K. Staehlin
Date started: 11/16/16	Date finished: 11/16/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							6-inch thick concrete slab
1–3				36/48	0.3 0.2	GP	SANDY GRAVEL with concrete (GP) light brown to gray-brown, loose, dry, subangular gravel less than 0.75-inches in diameter, trace brick debris, no odor
4–5	EB-8-4.5				0.1	SP	SAND (SP) dark brown, medium dense, moist, no odor
6–7				36/48	0		orangish-brown varying levels of clay, dense
8–9	EB-8-8.5				0		
10–11				48/48	0	SC	CLAYEY SAND (SC) orangish-brown, medium dense, moist, no odor
12–13					0		dark brown to brown
14–15				40/48			
16–17					0	SP	SAND (SP) orangish-brown, dense, moist, no odor
18–19				24/24	0		brown, occasional seams of clay
20–21				24/24	0		▽ (11/16/16)
22–23				24/24	0		saturated
24–25				24/24	0		
26–27					0		
28–30							

Boring terminated at a depth of 26.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 21.5 feet below ground surface during drilling.

LANGAN

Project No.:	Figure:
750622603	A-8

TEST ENVIRONMENTAL INCHES 750622603.GPJ T&R.GDT 12/2/16

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.075
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS



Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered



Classification sample taken with Standard Penetration Test sampler



Undisturbed sample taken with thin-walled tube



Disturbed sample



Sampling attempted with no recovery



Hydropuch sample



Analytical laboratory sample



Sample taken with Direct Push or Drive sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1110 JACKSON STREET
Oakland, California

LANGAN

CLASSIFICATION CHART

Date 11/21/16 | Project No. 750622603 | Figure A-9

APPENDIX B

UNDERGROUND STORAGE TANK CLOSURE INVESTIGATION REPORT, 1110 JACKSON STREET, OAKLAND, CALIFORNIA

11J Family Housing, L.P.

26 October 2016
Project 750622603

Mr. Keith Nowell, PG
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Underground Storage Tank Closure Investigation Report
1110 Jackson Street
Oakland, California
Alameda County SCP Case No. RO0003232
Langan Project: 7506220603

Dear Mr. Nowell:

The property referred to above, (APN: 002-0081-008-01), has been leased from the Oakland Housing Authority for a period of seventy-five (75) years, beginning March 16, 2015, pursuant to the terms of a lease agreement with the 11J Family Housing, Limited Partnership.

As a legally authorized representative of the 11J Family Housing Limited Partnership (*Lessee, Developer, and Building Owner of 188 11th Street, formerly 1110 Jackson Street*) and on behalf of the Oakland Housing Authority (*Lessor*), I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document titled *Underground Storage Tank Closure Investigation Report, 1110 Jackson Street, Oakland, CA,* are true and correct to the best of my knowledge.

Sincerely yours,

Everett Cleveland Jr.
11J Family Housing, L.P.

13 September 2016

Mr. Everett Cleveland
East Bay Asian Local Development Corporation
1825 San Pablo Avenue, Suite 200
Oakland, California 94612

Subject: Underground Storage Tank Closure Investigation Report
1110 Jackson Street
Oakland, California
Langan Project No.: 750622603

Dear Mr. Cleveland,

Langan Treadwell Rollo (Langan) has prepared this *Underground Storage Tank Closure Investigation Report* (report), which summarizes our soil and groundwater investigation conducted at the 1110 Jackson Street development in Oakland, California (Figure 1, site) for the East Bay Asian Local Development Corporation (EBALDC). Three underground storage tanks (USTs) containing gasoline were discovered in the sidewalk of Jackson Street, adjacent to the development during construction. The USTs were removed by Golden Gate Tank Removal (GGTR) of San Francisco, California and soil samples were collected from beneath the USTs and the sidewalls of the excavation. Based on preliminary sampling results, additional sampling was requested by the Alameda County Department of Environmental Health (ACDEH) to further evaluate potential impacts of petroleum and petroleum related compounds to groundwater.

We collected soil and groundwater samples to evaluate subsurface conditions to facilitate regulatory site closure under the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy (LTCP). This report details our environmental investigation sampling methodology, location and depth of soil and groundwater borings, analytical results and recommendations.

Site Description and Background

The site is located at 1110 Jackson Street in Oakland, California (Figure 1). The site is bound by 12th Street to the north, Jackson Street to the west, 11th Street to the south and multiple buildings to the east. The site is L-shaped, with long dimensions measuring approximately 190 feet by 200 feet, along 11th and Jackson Streets, respectively. We understand that EBALC is currently constructing an at-grade, 5-story mixed use building that will occupy the entire footprint of the L-shaped lot. The ground floor will be comprised primarily of openly ventilated parking with a small portion of retail space (Figure 2).

Based on UST removal, excavation activities, and our borings, the subsurface profile general consists of layers of fine to coarse sands with varying amounts of silts and clays. Groundwater was observed in our borings at about 20 to 21 feet below ground surface (bgs). Groundwater

predominantly flows east towards Lake Merritt, which is located approximately ¼ mile away from the site.

During side development activities, three USTs were discovered in the sidewalk of Jackson Street. The USTs were designated as UST #1, #2 and #3, all contained gasoline and were approximately 265-, 265- and 110-gallons, respectively. The locations of UST #1, #2 and #3 are shown on Figure 2. Based on a review of Sanborn maps, the USTs were likely in place since prior to 1911. The three USTs were found to be in generally poor condition. GGTR removed the three USTs from the sidewalk and conducted the corresponding soil excavation and soil sampling activities on 15 April 2016. UST removal activities were completed under the observation of Langan personnel and a representative from ACDEH. After the USTs and associated piping were removed, GGTR collected confirmation soil samples from excavation sidewalls and bottoms. Soil samples collected from soil beneath former UST #2 had elevated concentrations of petroleum hydrocarbons. Based on the elevated confirmation sample results and a recommendation by ACDEH, GGTR returned to the site on 4 May 2016 to perform over-excavation and additional confirmation sampling activities. GGTR over-excavated from the north side of UST#1 to the south side of UST#3 to a depth of 12 feet below ground surface (bgs). UST removal, excavation and soil sampling activities are summarized in GGTR's *Underground Storage Tank Closure Report* (Closure Report) dated 23 June 2016. The GGTR Closure Report is included as Appendix A.

Prior to the discovery of the USTs, an environmental investigation was performed at the site and detailed in the *Report of Limited Phase II Environmental Site Assessment, Jackson Tower, Oakland, California* prepared by Tetra Tech EM Inc. and dated 18 January 2006 (Appendix B). Three borings SB-1, SB-2, and SB-3 were advanced and soil and groundwater was collected from each boring. The boring locations are illustrated on Figure 2. Groundwater samples were collected approximately 50 to 60 feet from the former UST locations in both the northeast and southeast directions. Total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd) and TPH as motor oil (TPHmo) were not detected in any of the samples collected. Since the USTs were identified on a 1911 Sanborn map and it is likely that they have been in place since longer than 1911, it is unlikely the groundwater conditions in the areas of SB-1 and SB-2 have changed since the groundwater samples were collected in 2005. Therefore, we propose to utilize the data collected in 2005 to delineate the plume extent in the northeasterly and southeasterly directions.

Summary of Activities

On 11 August 2016, Gregg Drilling & Testing, Inc. (Gregg Drilling) of Martinez, California, a California-licensed drilling company advanced four borings (EB-1 through EB-4) at locations shown on Figure 2. Environmental borings EB-1 through EB-3 were advanced in the vicinity of former UST #1, #2 and #3. Environmental boring EB-4 was advanced east and downgradient of EB-1 through EB-3. All borings were hydraulically driven direct push boings advanced by a truck-mounted drill rig operated by Gregg and supervised by Langan. The borings were advanced to a depth of 28 feet bgs.

Soil cores were visually logged by Langan personnel in general accordance with the Unified Soil Classification System (USCS) working under the supervision of a California professional geologist. Subsurface conditions consisted mainly of sandy soil with varying amounts silts and clays. Petroleum odors were observed at approximately 22 feet bgs in boring EB-2, which was advanced directly through the former UST #2 pit. Soil boring logs describing the materials encountered are presented in Appendix C.

Groundwater samples were collected from each of the four environmental borings EB-1 through EB-4. Groundwater was encountered at approximately 20 feet bgs in each borehole. Temporary 1-inch diameter PVC well casings were installed in each well. The lower ten foot section of each casing (from 18 to 28 feet bgs) was comprised of a slotted well screen to facilitate groundwater sample collection. Prior to groundwater sample collection, the groundwater level was allowed to equilibrate for at least two hours. Groundwater was extracted using clean stainless steel bailers and decanted into laboratory supplied containers. No free product or staining was observed in any of the borings.

Due to previous exceedances in soil at the former UST #2 location, Langan collected three soil samples from environmental boring EB-2. Samples were collected at depths of 13, 15.5 and 22.5 feet bgs. Soil samples were labeled by boring location and bottom depth of the sample (i.e. a sample collected at a depth of 12.5 to 13 feet bgs from boring EB-2 was labeled EB-2-13). Samples were collected based on field observations including visual and olfactory contamination and organic vapor measurement using a photoionization detector (PID). Soil samples were collected into new stainless steel liners. The liners were covered with Teflon sheets and tight-fitting end caps.

Following collection, groundwater and soil samples were placed in an ice-cooled chest pending delivery to McCampbell Analytical Laboratory (McCampbell), a California-certified laboratory in Pittsburg, California.

To avoid cross contamination, all sampling equipment used during the investigation activities was thoroughly cleaned between sample locations. All borings were backfilled with neat cement grout and the surface cover was restored in accordance with the Alameda County Public Works Agency's requirements.

Soil cuttings and decontamination rinsate were placed in a 55-gallon drum, sealed and labeled. The drum was stored onsite, pending analytical profiling and proper disposal. After classification as non-hazardous, the drum was transported and disposed of at an appropriate facility.

Laboratory Analyses

Soil and groundwater samples were submitted to McCampbell. Samples were analyzed for some or all of the following:

- TPHg, TPHd and TPHmo by United States Environmental Protection Agency (EPA) Modified Method 8015;
- Volatile organic compounds (VOCs) by EPA Method 8260; and

- Leaking underground fuel tank (LUFT) 5 metals by EPA Method SW6020.

The samples selected for analysis are presented in Table 1.

Analytical Results

Soil analytical results are presented in Tables 2 and 3 for organic constituents (TPH and VOCs) and LUFT 5 metals, respectively. TPH and VOCs groundwater analytical results are presented in Table 4. The certified laboratory reports and chain-of-custody records are presented in Appendix D. Soil analytical results were compared to construction worker environmental screening levels (ESLs) as presented in the San Francisco Bay Regional Water Quality Control Board's (Water Board) *Interim-Final Environmental Screening Levels* dated February 2016. Groundwater analytical results were compared to ecological ESLs (ecotox) and vapor intrusion ESLs for deep groundwater in fine to coarse grain material for residential and commercial/industrial land use scenarios.

The LTCP presents screening criteria for petroleum-related compounds in soil, groundwater and soil gas. For comparison purposes, the LTCP-specified groundwater screening criteria for benzene and methyl-t-butyl ether (MTBE) are included in Table 4. The LTCP screening criteria for benzene and MTBE in groundwater are 3,000 micrograms per liter (µg/L) and 1,000 µg/L, respectively[1].

Soil Results

Table 2 presents TPH and VOC analytical results for three soil samples collected from environmental boring EB-2. TPHg, TPHd and TPHmo were detected in all three samples at concentrations above the laboratory reporting limits. TPHg was detected at concentrations ranging from 200 to 5,000 milligrams per kilogram (mg/kg). One sample, collected at depth of 15.5 feet bgs, had TPHg detected at a concentration of 5,000 mg/kg, which exceeds the TPHg construction worker ESL of 2,800 mg/kg. TPHd and TPHmo were not detected at concentrations in exceedance of their respective screening levels. Several VOCs were detected at concentrations above the laboratory reporting limit in all three samples; however, none of the detected VOC concentrations were in exceedance of their respective screening levels. Benzene and MTBE were not detected above laboratory limits in any soil samples collected during this investigation.

Table 3 presents soil analytical results for LUFT 5 metals. Total chromium, lead, nickel and zinc were all detected in soil at concentrations above the laboratory reporting limits; however none of the detected metals concentrations were in exceedance of their respective screening levels. Chromium concentrations were compared to chromium III ESLs (51,000 mg/kg) rather than

[1] State Water Resources Control Board, 2012. *Low Threat Underground Storage Tank Case Closure Policy*. May.

chromium VI ESLs (2.8 mg/kg) because the soil sampled is native soil without any likely industrial contamination and therefore, likely exists in the chromium III valence state[2].

Groundwater Results

Table 4 presents analytical results for the groundwater samples analyzed for TPH and detected VOCs. TPHg, TPHd and TPHmo were detected at concentrations above the laboratory reporting limits. The highest concentrations of TPH were detected from boring EB-2 with TPHg and TPHd at concentrations of 30,000 and 55,000 µg/L, respectively. The laboratory qualified the TPHd detections as having significant gasoline range compounds. TPHg and TPHd were also detected in borings EB-1 and EB-4. TPHg was detected in borings EB-1 and EB-4 at concentrations of 1,600 and 16,000 µg/L, respectively. TPHd was detected in borings EB-1 and EB-4 at concentrations of 3,200 and 2,300 µg/L, respectively. TPHg and TPHd were not detected above laboratory reporting limits in boring EB-3. TPHmo was only detected in boring EB-4 at a concentration of 520 µg/L, although the reporting limit for TPHmo associated with the sample collected from EB-2 were significantly elevated. Since vapor intrusion ESLs have not been established for TPH constituents, none of the detected concentrations of TPH were in exceedance of vapor intrusion ESLs.

VOCs, including acetone, benzene, 2-butanone, sec-butyl benzene, cis-1,2-dichloroethene, ethylbenzene, MTBE, isopropylbenzene, 4-isopropyltoluene, naphthalene, n-propyl benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and xylenes were detected at or above laboratory reporting limits. Benzene was detected above the commercial vapor intrusion ESLs at a concentration of 320 micrograms per liter (µg/L) in the groundwater sample collected from boring EB-2 only. Boring EB-4, which was advanced near the building and downgradient of boring EB-2 (Figure 2), did not have any VOCs detected above applicable vapor intrusion ESLs. None of the other detected concentrations of VOCs were in exceedance of the commercial vapor intrusion ESLs in any samples. None of the detected concentrations of benzene or MTBE exceeded the LTCP screening criteria in any of the samples analyzed.

Discussion

Soil and groundwater samples collected during this environmental investigation indicate that petroleum hydrocarbons and petroleum hydrocarbon related compounds are present in subsurface soil and groundwater at the site. Elevated concentrations of TPHg were detected in deep subsurface soil (greater than 10 feet bgs) in the vicinity of former UST #2. Elevated concentrations of TPHg and TPHd (with significant contribution from TPHg range hydrocarbons) were detected in borings EB-2 and EB-4, which were advanced directly through the former UST #2 and approximately 12 feet downgradient to the east, respectively. Benzene was detected in one groundwater sample above the commercial vapor intrusion ESLs, but not in the sample closest to the existing building.

[2] Agency for Toxic Substances and Disease Registry (ATSDR). Toxicological Profile for Chromium. U.S. Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA. 1998.

Next Steps

We propose collect additional groundwater samples further downgradient relative to the former USTs to the east to delineate the extent of petroleum hydrocarbon contamination. Groundwater samples will be collected from environmental borings EB-5 and EB-6, as shown on Figure 2. Groundwater samples will be analyzed for petroleum-related compounds, including TPH and VOCs. Based on results from the additional data collected, we will discuss regulatory site closure through the LTCP and propose next steps with ACDEH.

If you have questions regarding the contents of this report, please contact Joshua Graber at (510) 874-7086.

Sincerely,
Langan Treadwell Rollo







Joshua Graber, CHMM
Senior Project Manager

Elizabeth Kimbrel, PE
Senior Staff Engineer

Enclosures:
Table 1 – Sampling Analysis Plan
Table 2 – Soil Analytical Results for Organic Constituents
Table 3 – Soil Analytical Results for Metals
Table 4 – Groundwater Analytical Results

Figure 1 – Site Location
Figure 2 – Site Plan

Appendix A – Underground Storage Tank Closure Report, 1110 Jackson Street, Oakland, California
Appendix B – Report of Limited Phase II Environmental Site Assessment, Jackson Tower, Oakland, California
Appendix C - Soil Boring Logs
Appendix D - Laboratory Analytical Report

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TABLES

Table 1
Sampling Analysis Plan
1110 Jackson Street
Oakland, California

Sample ID	Date Sampled	TPH - gasoline, diesel and motor oil	VOCs	LUFT 5 Metals
		EPA Method 8015	EPA Method 8260	EPA Method 6010/7000
EB-2-13	8/11/16	x	x	x
EB-2-15.5	8/11/16	x	x	x
EB-2-22.5	8/11/16	x	x	x
EB-1-GW	8/11/16	x	x	
EB-2-GW	8/11/16	x	x	
EB-3-GW	8/11/16	x	x	
EB-4-GW	8/11/16	x	x	

Notes:
EPA - Environmental Protection Agency
GW - Groundwater
LUFT - Leaking Underground Fuel Tank
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

Table 2
Soil Analtyical Results for Organic Constituents
1110 Jackson Street
Oakland, California

Sample ID	Date Sampled	TPHg	TPHd	TPHmo	VOCs										
					n-Butyl-benzene	sec-Butyl-benzene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Propyle-benzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	MTBE	All Other VOCs
		mg/kg													
EB-2-13	8/11/16	200	18	5.5	0.14	0.13	<0.10	0.14	0.39	0.20	<0.10	<0.10	<0.10	<10	ND
EB-2-15.5	8/11/16	**5,000**	830	13	2.3	2.5	<2.0	4.2	5.3	5.1	<2.0	<2.0	<2.0	<10	ND
EB-2-22.5	8/11/16	2,100	370	14	0.12	0.18	0.52	0.33	0.12	0.33	0.55	0.25	0.31	<10	ND
Construction Worker ESLs		2,800	880	32,000	NE	NE	480	NE	350	NE	NE	NE	2,400	3,700	-

Notes:
Bolded values exceed commercial ESLs
<0.10 - Compound not detected at or above the referenced laboratory reporting limit (0.10 mg/kg)
ESL - Environmental screening level
mg/kg - milligrams per kilogram
MTBE - Methyl-t-butyl ether
ND - Not detected at or above the laboratory reporting limit
NE - Not established
TPHg - Total Petroleum Hydrocarbons as Gasoline, EPA Method 8015B
TPHd - Total Petroleum Hydrocarbons as Diesel Range, EPA Method 8015B
TPHmo - Total Petroleum Hydrocarbons as Motor Oil, EPA Method 8015B
VOCs - Volatile organic compounds
Residential and commercial ESLs presented in San Francisco Bay Regional Water Quality Control Board, Environmental Screening Level, Table S-1, Any Land Use: Any Soil Depth Exposure (Construction Worker)

Table 3
Soil Analytical Results for Metals
1110 Jackson Street
Oakland, California

Sample ID	Date Sampled	Cadmium	Total Chromium [1]	Lead	Nickel	Zinc
		mg/kg				
EB-2-13	8/11/16	<0.25	55	2.4	48	24
EB-2-15.5	8/11/16	<0.25	45	1.9	36	22
EB-2-22.5	8/11/16	<0.25	110	2.3	44	26
Construction Worker ESL		43	51,000/2.8	160	86	110,000

Notes:

1 - A total chromium ESL has not been established. Chromium ESLs are listed as either Chromium III or Chromium VI (hexavalent chromium). The Chromium III ESL is 51,000 mg/kg and the Chromium VI ESL is 2.8 mg/kg. In native soil, chromium typically exists in the Chromium III valence state. Chromium VI is less common and most commonly produced by industrial processes (ATSDR, 1998)

mg/kg - milligrams per kilogram

<0.25 - Compound not detected at or above the referenced laboratory reporting limit (0.25 mg/kg)

ESL - San Francisco Bay Regional Water Quality Control Board, Environmental Screening Level, Table S-1, Any Land Use: Any Soil Depth Exposure (Construction Worker)

Table 4
Groundwater Analytical Results
1110 Jackson Street
Oakland, California

Sample ID	Sample Date	TPHg	TPHd	TPHmo	VOCs														All Other VOCs
					Acetone	Benzene	2-Butanone (MEK)	sec-Butyl benzene	cis-1,2-Dichloro ethene	Ethylbenzene	MTBE	Isopropyl-benzene	4-Isopropyl toluene	Naphthalene	n-Propyl benzene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Xylenes	
					µg/L														
EB-1-GW	8/11/16	1,600	3,200	<250	<50	<2.5	<10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	ND
EB-2-GW	8/11/16	30,000	55,000	<2,500	630	**320**	81	23	<12	740	<12	150	<12	100	110	290	92	430	ND
EB-3-GW	8/11/16	<50	<100	<500	<10	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
EB-4-GW	8/11/16	16,000	2,300	520	<100	110	<20	14	5.5	250	<5.0	100	8.3	7.9	64	19	<5.0	27	ND
Ecological ESLs		440	640	NE	1,500	46	NE	NE	590	290	8,000	NE	NE	24	NE	NE	NE	NE	-
Residential Vapor Intrusion ESLs		NE	NE	NE	140,000,000	30	NE	NE	15,000	370	15,000	NE	NE	180	NE	NE	NE	38,000	-
Commercial Vapor Intrusion ESLs		NE	NE	NE	NE	260	NE	NE	130,000	3,300	130,000	NE	NE	1,600	NE	NE	NE	NE	-
LTCP Criteria		NE	NE	NE	NE	3,000	NE	NE	NE	NE	1,000	NE	NE	NE	NE	NE	NE	NE	NE

Notes:
Bolded values exceed vapor intrusion ESLs for commercial land use
µg/L - micrograms per liter
<250 - Compound not detected at or above the referenced laboratory reporting limit (250 µg/L)
ESL - Environmental Screening Level
LTCP - Low Threat Underground Storage Tank Case Closure Policy, State Water Resources Control Board, May 2012.
MTBE - Methyl-t-butyl ether
NE - Criteria not established
ND - Not detected at or above the laboratory reporting limit
TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel Range
TPHmo - Total Petroleum Hydrocarbons as Motor Oil
VOCs - Volatile Organics Compounds
Ecological ESLs = Fresh Water Ecotox ESLs, as established by the San Francisco Regional Water Quality Control Board dated 22 February 2016.
Residential Vapor Intrusion ESLs = Groundwater Vapor Intrusion Human Health Risk Levels for Deep Groundwater, Residential Land Use Scenario: Fine to Coarse Soil, as established by the San Francisco Regional Water Quality Control Board dated 22 February 2016
Commercial Vapor Intrusion ESLs = Groundwater Vapor Intrusion Human Health Risk Levels for Deep Groundwater, Commercial Land Use Scenario: Fine to Coarse Soil, , as established by the San Francisco Regional Water Quality Control Board dated 22 February 2016

FIGURES



Notes:
1. Aerial imagery provided through Langan's contract with Near Map. Aerial imagery flown on 6/20/16.
2. Map displayed in California State Coordinate System 3, California (Teale) Albers, North American Datum of 1983 (NAD83), US Survey Feet.

0 100 200 400
Feet

N

1110 JACKSON STREETT
Oakland, California

SITE LOCATION MAP

LANGAN TREADWELL ROLLO

Date 8/26/2016	Project 750622603	Figure 1

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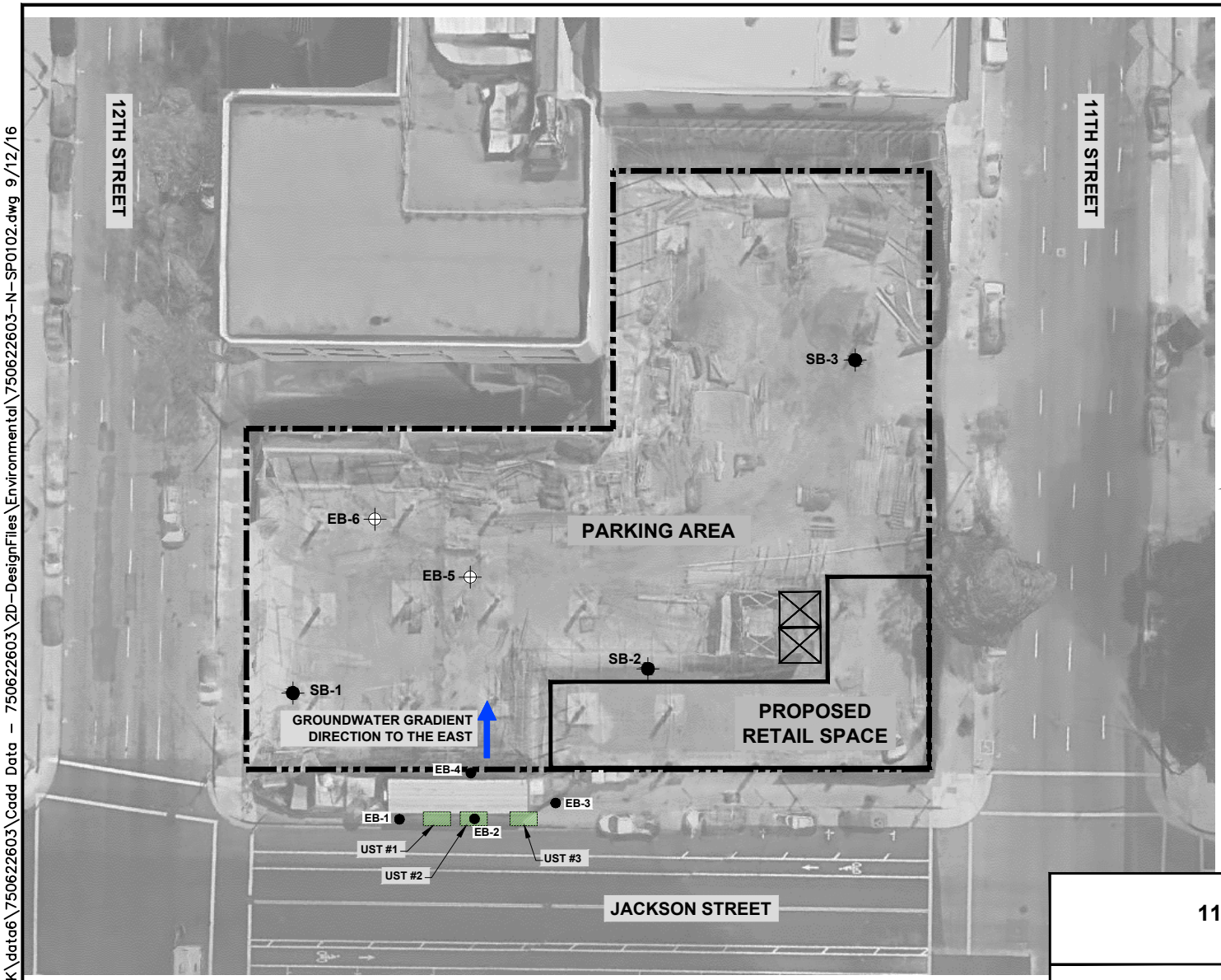

EXPLANATION

- EB-1 — Grab groundwater sample locations
- SB-1 — Approximate location of boring conducted by D.R. Horton in 2005
- EB-5 — Proposed boring locations
- Approximate location of former USTs
- Approximate location of Elevator
- Approximate groundwater flow direction
- Site boundary

0 40 Feet

Approximate scale

Reference: Base map from google.

1110 JACKSON STREET
Oakland, California

SITE PLAN

Date 09/12/16	Project No. 750622603	Figure 2

LANGAN TREADWELL ROLLO

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APPENDIX A

GGTR UST CLOSURE REPORT

UNDERGROUND STORAGE TANK

CLOSURE REPORT

1110 Jackson Street
Oakland, CA 94607
Job No. 9669
June 23, 2016

Prepared For:

11J Family Housing, L.P.
1825 San Pablo Avenue
Oakland, CA 94612

Tim Hallen
Registered Environmental Assessor 08006

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General Engineering Contractors License No. 616521

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COVER SHEET

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ATTACHMENTS

1. SITE LOCATION

The residential development site is located at 1110 Jackson Street, at the southeast corner of the intersection of 12th and Jackson Streets in Oakland, California. Figure 1 attached shows the general site location.

2. SITE HISTORY

During site construction activities, three underground storage tanks (UST) containing gasoline were located beneath the sidewalk along the Jackson Street frontage of the property. The three USTs, designated as T1, T2 & T3, were all constructed of single wall bare steel and each had a capacity of approximately 265, 265, and 110 gallons, respectively. T1 and T2 were each 5 feet in length by 3 feet in diameter, and T3 was 3 feet in length by 2.5 feet in diameter. The fill port for T1 and T2 was located at the southeast end of the tank, and that for T3 was located on the northwest end of the tank. The age of each tank is unknown. The owner had no prior knowledge of the tanks nor was there any indication of previous site investigation activities. The approximate location of each tank as well as nearby streets is shown on the attached Figure 2.

3. PRELIMINARY TANK REMOVAL ACTIVITIES

In March 2016, Golden Gate Tank Removal, Inc. (GGTR) applied for and obtained permits for the tank removal activities from the Alameda County Department of Environmental Health (ACDEH), the City of Oakland Fire Department (COFD) and City of Oakland Planning and Building Department (COPBD). A copy of each agency's permit is included as an attachment.

On April 5, 2016 GGTR mobilized its equipment and began work on the project. The concrete sidewalk covering the tank was removed and disposed of at a local recycler. The overburden soil covering each UST was removed and stockpiled on visqueen sheeting in the direct vicinity of each respective excavation. Field measurements indicated that the bottom of T1 and T2 was 7 feet below grade (fbg) surface with horizontal orientation, and the bottom of T3 was 6.5 fbg with vertical orientation.

The 1- to 2.5-inch-diameter, subsurface product, remote fill and vent piping extending between the top of each tank and the southeast foundation wall of the subject property building structure were cut at each end, drained of any residual product, then exposed for removal from the trench excavation areas. Any exposed UST vent and product/ remote fill pipes were removed; any inaccessible pipe remaining in place beneath the building structure was plugged with concrete and/or capped at the exposed end.

As part of the removal operations, GGTR on April 14 and 15, 2016, pumped the residual product from each UST and piping into 55-gallon storage drums and portable storage totes. GGTR contracted Patriot Environmental Services to pump the residual product from the drums/totes into vacuum tanker truck. As observed by OFD Inspector Sheryl Skillern, GGTR initially tested the lower explosive limit (LEL) and oxygen (O_2) levels within the tank using a QRae$^+$ Multi-Gas meter. The LEL and O_2 levels were 0%-4% and 20.9%, respectively for T1 and T2, and 0% and 20.9% for T3.

GGTR subsequently inerted the interior of each tank by placing 40 pounds of dry ice pellets in T1 and T2, and 20 pounds of dry ice pellets in T3. Approximately 1/2 hour later, GGTR again tested the LEL and O_2 levels within each tank using a QRae$^+$ Multi-Gas meter; T1 contained 5% LEL and 1.3% O_2, T2 contained 5% LEL and 0.7% O_2, and T3 contained 0% LEL and 0.6% O_2.

Following approval from OFD inspector Sheryl Skillern and Barbara Jakub of ACDEH, GGTR removed each UST from its respective excavation, and temporarily placed them on plastic sheeting. After visual inspection, the three USTs were loaded onto a flatbed truck and transported by ECI as *Non-RCRA Hazardous Waste Solid* under Uniform Hazardous Waste Manifest No. 013897175JJK to Ecology Control Industries in Richmond, CA. A copy of the manifest and Hazardous Waste Tank Closure Certification Form is attached. Figure 3 depicts photographs of the tank removal activities. Vent piping was removed and transported offsite for disposal following UST removal activities on April 15, 2016.

4. UST REMOVAL AND CONFIRMATION SAMPLING & ANALYSIS

On April 15, 2016, under the direction of Barbara Jakub of the ACDEH and a Langan Treadwell Rollo (LTR) staff representative, GGTR collected one discrete excavation soil sample approximately 2 feet beneath each former tank and one discrete soil sample from each respective stockpile of overburden soil. The discrete Samples were collected by hand augering approximately 2 feet into each excavation bottom, and transferring the soil from the auger head directly into a laboratory-supplied brass tube. To facilitate sample collection, GGTR initially removed visually impacted soil beneath each tank to the designated sample depth and transferred the impacted soil to 55-gallon storage drums. Soil samples 9669-T1-C-9 and 9669-T2-C-9 were collected at the bottom center of T1 and T2 excavations, at approximately 9 fbg, and 9669-T3-C-8 was collected at the bottom center of T3 excavation, at approximately 8 fbg. The discrete stockpile samples were labeled 9669-SP1-DISCRETE, 9669-SP2-DISCRETE and 9669-SP3-DISCRETE. GGTR collected one additional 4-point composite sample from the drummed soil (6 drums @ 1.5 cubic yards) and labeled this sample 9669-DRUM-COMP. All samples were transported to Accutest Laboratories (Accutest; State ELAP Certification #08258) under formal chain-of-custody protocol for the required analyses. Figure 2 depicts the approximate UST removal soil sample locations.

On April 22, 2016, GGTR returned to the Site and collected discrete confirmation soil samples beneath the product/return pipe extending approximately 12 feet between the southeast sidewalls of the UST excavations and the northwest foundation wall of the subject property building structure. GGTR measured a total of approximately 50 feet of 1-to 2.5-inch-diameter, steel, product/return pipe existing at the Site, located 2 fbg surfaces.

Under direction of Barbara Jakub of the ACDEH, GGTR collected one discrete soil sample approximately 1.5 to 2 feet beneath each set of product/return pipe, at the center portion and/or piping joint. Sample ID 9669-P1-4 was collected 2 feet beneath the center of the two existing pipes extending from T1 to the building structure at 4 fbg. Sample IDs 9669-P2-3.3 and 9669-P3-4 were collected at 3.3 and 4 fbg, respectively, beneath the product/return piping runs extending from former USTs T2 and T3. The samples were transported to Accutest under formal chain-of-custody protocol for the required analyses. Figure 2 shows the approximate discrete soil sample locations.

All samples were analyzed for Total Petroleum Hydrocarbons (TPH) as Diesel and Motor Oil by EPA Method SW846 8015B M, and TPH as Gasoline and Volatile Organic Compounds (VOCs; Full List) by EPA Method SW846 8260B. The discrete samples collected from each excavation bottom and beneath the associated product/return piping were additionally analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270 SIM, and Cadmium, Chromium, Lead, Nickel, and Zinc (Luft 5 Metals) by EPA Method 6010B. The composite

sample collected from the drummed soil was additionally analyzed for Luft 5 Metals and subsequently for chromium using STLC and TCLP extraction methods. A summary of the analytical results is included in the Tables provided by Accutest Northern California, Inc. A copy of the associated laboratory certificates of analysis (**Accutest Job Nos. C45413, C45413W, C45413T, C45495**) and chain of custody forms is included as an attachment.

5. TANK AND SOIL CONDITION

The USTs were each found to be in poor condition; the welding along the northwest bottom and end cap section of T1 was absent, and visible holes were located along the top portion of the northwest end of T2, as well as along the sidewalls of T3. Obvious soil discoloration and hydrocarbon odors (gasoline) were observed in the soil beneath each UST and in the overburden soil stockpile (SP2) generated during excavation of T2. Soil observed during the UST removal and product/return pipe confirmation sampling, was predominantly a damp to wet, moderate to dark yellowish brown, clayey sand (fine-grained); visually impacted soil observed beneath each UST was olive gray to dark greenish gray in color. The discrete soil samples collected beneath each UST were field screened using a calibrated MiniRae Lite photo ionization detector and contained total volatile organics ranging between 482 (T2) and 978 (T3) parts per million. A small volume of perched drainage water was observed within the bottom of each UST excavation following removal activities. Perched drainage water was also observed in the excavation areas underlying the product/return pipe. Groundwater was not observed in the excavation during the UST removal and over-excavation activities. The depth to groundwater measured in existing monitoring wells located at the 76-branded Service Station (800 Harrison Street @ 8th Street) approximately 0.23 mile southwest of the site, ranged between 18 and 20 fbg (February 2016 Data). An Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report was required by the ACDEH due to holes observed in each tank and visual contamination beneath the USTs. A copy of the Leak report is included as an attachment.

6. SAMPLE DATA REVIEW

The discrete soil samples collected beneath UST Nos. T1 (9669-T1-C-9) and T2 (9669-T2-C-9) at 9 fbg contained elevated concentrations of TPH as gasoline at 394 and 491 milligrams per kilogram (mg/kg), respectively. Other analysis showed no detectable or insignificant concentrations of TPH as Diesel/Motor Oil/Mineral Spirits/Kerosene, VOCs, and PAHs below their applicable February 2016 San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for Human Health Direct Exposure to shallow soil (Residential Land Usage). The Luft 5 Metals measured in these samples were also below applicable ESLs and appear to be background levels in soil for this area in Oakland.

The discrete sample collected beneath T3 at 8 fbg (9669-T3-C-8) contained 2,480 mg/kg TPH as Gasoline, 580 mg/kg TPH as Kerosene, and 4.59 mg/kg Naphthalene (1.96 mg/kg by EPA Method 8270 SIM), exceeding their applicable residential ESLs for direct exposure to shallow soil. The sample also contained other non detectable or insignificant concentrations of VOCs and PAHs.

The discrete samples collected from UST overburden soil stockpile Nos. SP1 & SP3 contained non detectable concentrations of TPH as gasoline/mineral spirits/kerosene, BTEX, MTBE and Naphthalene, and TPH as diesel/motor oil <19 mg/kg, well below the Tier 1 Concentration

Limits for Gas/Diesel (Table 1) presented in the *RWQCB's Characterization and Reuse of Petroleum Hydrocarbon Impacted Soil as Inert Waste*, suggesting that the associated stockpile material is suitable for onsite reuse as backfill material. The discrete sample collected from UST overburden soil stockpile No# SP2 contained an elevated concentration of TPH gasoline at 3,290 mg/kg, and TPH as kerosene at 217 mg/kg (noted as possible Jet-A grade fuel related) above the Tier 1 Not-to-Exceed Concentration Limits and is considered not suitable for onsite reuse as backfill material per RWQCB reuse guidance.

Due to the results presented above, and as presented in email correspondence to the ACDEH dated April 21, 2016, GGTR proposed to over-excavate and remove all impacted soil underlying the former UST No. 3 to approximately 9-10 fbg or to the extent practicable without compromising the integrity of the excavation sidewalls, adjacent street, and any utilities in the direct vicinity of the excavation. GGTR also proposed to collect additional discrete confirmation soil samples at the bottom depth of the excavation, and if warranted, at excavation sidewalls. *While Onsite during the product/return pipe sampling and removal activities on April 22, 2016, the ACDEH concurred with GGTR's proposed work scope above, and recommended that contaminated soil also be removed surrounding former UST Nos. 1 and 2, to expedite site closure when case is transferred to Local Oversight Program for further groundwater impact assessment.*

The discrete confirmation samples collected beneath the product/return piping contained non detectable concentrations of TPH as Gasoline, Diesel/Motor Oil/Mineral Spirits/Kerosene, and non detectable or insignificant concentrations of VOCs (Methylene Chloride) and PAHs [Benzo(a)anthracene and Benzo(a)pyrene] below their applicable February 2016 San Francisco Bay RWQCB ESL for Human Health Direct Exposure to shallow soil (Residential Land Usage). The Luft 5 Metal concentrations measured in these samples were also below applicable ESLs.

7. OVER-EXCAVATION

On May 4, 2016, GGTR returned to the Site to perform the over-excavation & confirmation sampling activities, as recommended by Inspector Barbara Jakub of the ACDEH. GGTR over-excavated and removed the impacted soil underlying each of the former USTs to approximately 12 to 12.5 fbg, and transferred the impacted soil directly into 20-yard dump trucks, temporarily parked in the southeast parking lane of Jackson Street adjacent to the UST excavations. Visually impacted soil along excavation sidewalls was scraped to the extent feasible and transferred to the dump trucks. GGTR also transferred the impacted soil within each 55-gallon drum to a dump truck. GGTR removed a total of 38.2 tons of impacted soil from the excavation areas. Also, Mr. Miles Hobbs of Branagh Inc., requested that soil previously excavated and removed from the site during trenching and subsurface utility pipe renovation in the vicinity of the former USTs be disposed offsite. On May 5, 2016, approximately 40 tons of additional impacted soil was removed from the site.

8. ADDITIONAL CONFIRMATION SOIL SAMPLING & ANALYSIS

On May 4, 2016, under the direction of ACDEH Inspector Jakub, GGTR collected a discrete confirmation soil sample from the bottom center of each excavation between 12 and 12.5 fbg, and from excavation sidewalls at depths ranging from 6.5 to 9 fbg. GGTR collected each sample utilizing a brass tube-lined remote core sampler hammered approximately 3- to 6-inches into

relatively undisturbed soil. The discrete samples collected from the excavation bottom beneath former UST Nos. T1 thru T3 were labeled 9669-T1-C-12', 9669-T2-C-12.5', and 9669-T3-C-12', respectively. The discrete samples collected at 8 fbg from the north, east and west excavation sidewalls at former UST T1 were labeled 9669-T1-NW-8', 9669-T1-EW-8', 9669-T1-WW-8', the discrete samples collected between 6 and 8 fbg from the south, east and west excavation sidewalls at former T2 were labeled 9669-T2-SW-8', 9669-T2-EW-6', 9669-T2-WW-8', and the samples collected between 6.5 and 9 fbg from the north, south, east and west excavation sidewalls at former UST T3 were labeled 9669-T3-NW-8', 9669-T3-SW-6.5', 9669-T3-EW-9', and 9669-T3-WW-8'. The samples were transported to Accutest under formal chain-of-custody protocol for the required analyses. Figure 2 shows the approximate locations of the additional confirmation soil samples.

All samples were analyzed for TPH as Diesel/Motor Oil/Kerosene/Mineral Spirits by EPA Method SW846 8015B M, TPH as Gasoline and VOCs (Full List) by EPA Method SW846 8260B, PAHs by EPA Method 8270 SIM, and Luft 5 Metals by EPA Method 6010B. A summary of the analytical results is included in the Table provided by Accutest Northern California, Inc. Copies of the associated laboratory certificates of analysis (**Accutest Job No. C45685**) and chain of custody form is included as an attachment.

9. WASTE MANAGEMENT & SOIL DISPOSAL

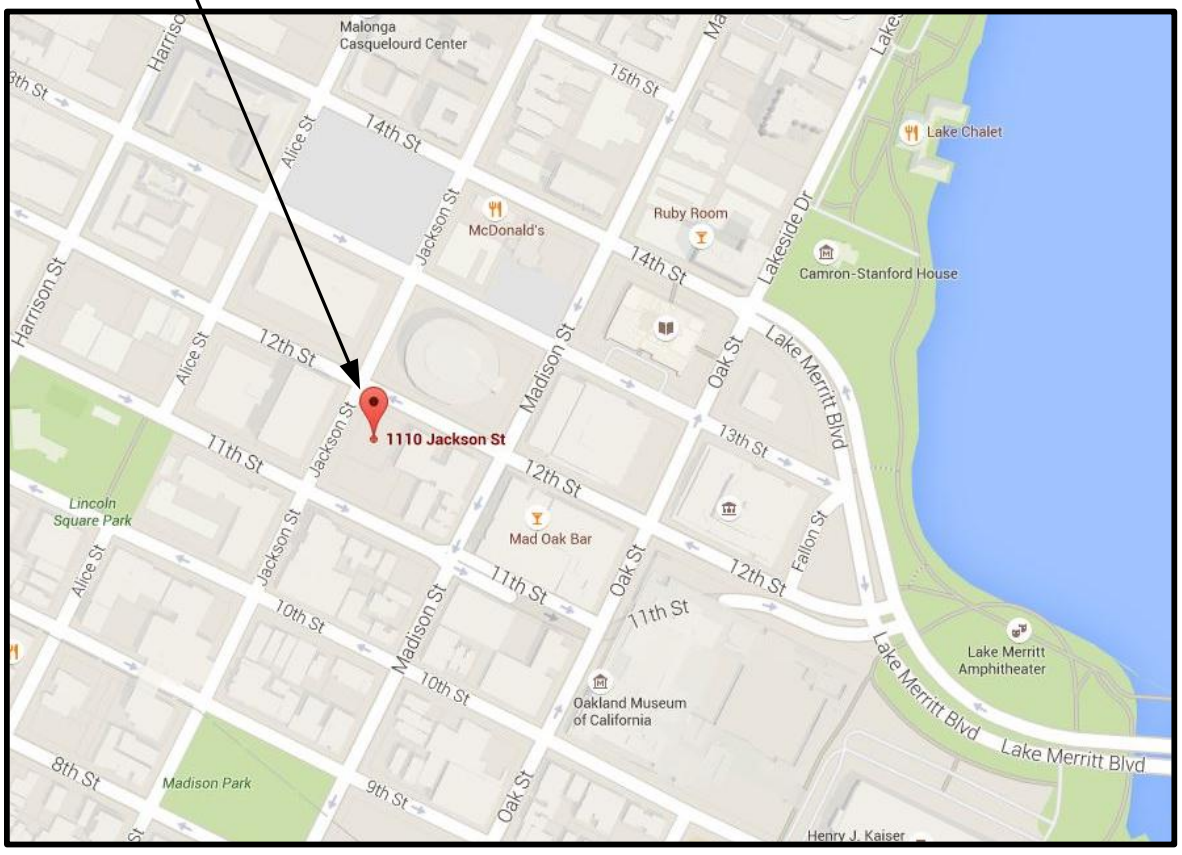
As above, following pumping of the residual product from each UST into temporary 55-gallon stoarge drums and portable totes, Patriot Environmental Services, on April 15, 2016, pumped the product into a tanker truck and transported approximately 750 gallons of Non-RCRA Hazardous Waste Liquid under Uniform Waste Manifest No. 014477075 to the Crosby & Overton facility in Long Beach, California. A copy of the associated liquid waste manifest is attached.

Prior to UST removal and over-excavation, GGTR profiled the impacted soil to be generated during over-excavation activities for disposal acceptance at the Keller Canyon Landfill Facility located in Pittsburg, California. On May 4 and 5, 2016, GGTR contacted Poli Trucking to transport and dispose of approximately 78.2 tons of impacted soil under Non-Hazardous Waste Acceptance Profile No. 4212167120 to the Keller Canyon Landfill facility in Pittsburg, California. A copy of each solid waste manifest and associated weight tag is included as an attachment.

10. SITE RESTORATION

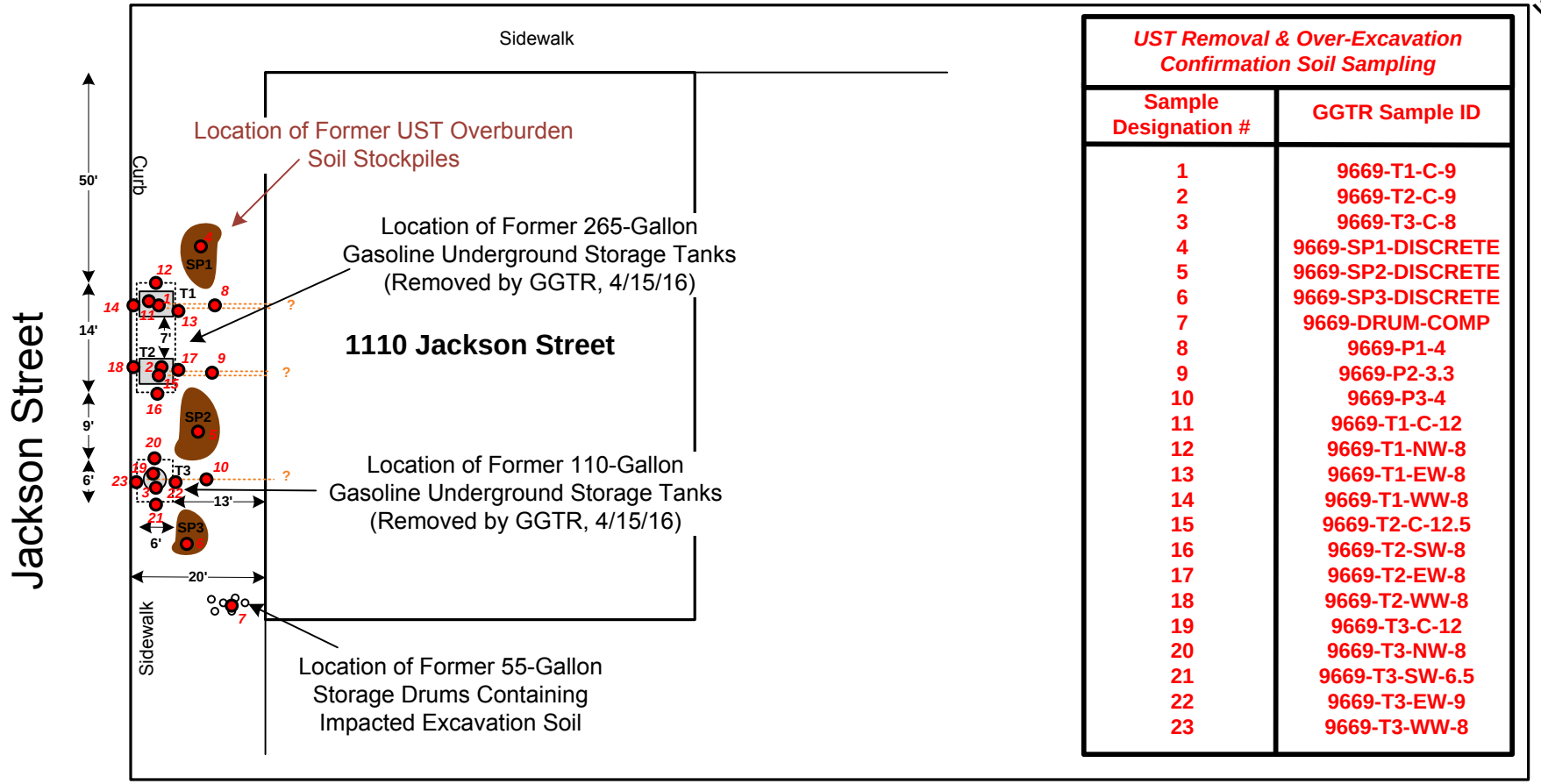
Following confirmation sampling (see below), GGTR, between May 6 and 10, 2016, placed import 3/4-inch Class 2 baserock in each excavation to approximately 0.5 fbg. The backfill material was placed in 12" lifts, compacted using a compaction wheel, and tested to 95% relative compaction per COPBD site conditions. GGTR subsequently replaced the sidewalk in conformance with COPBD requirements.

FIGURES



GOLDEN GATE TANK REMOVAL, INC. 1480 Carroll Avenue San Francisco, CA 94124 Ph (415) 512-1555 Fx (415) 512-0964		**VICINITY MAP** 1110 Jackson Street Oakland, CA 94607	
GGTR Project No.9669	*Drawing By: EJ*	March 2016	***Figure 1***

12th Street



UST Removal & Over-Excavation Confirmation Soil Sampling	
Sample Designation #	**GGTR Sample ID**
1	9669-T1-C-9
2	9669-T2-C-9
3	9669-T3-C-8
4	9669-SP1-DISCRETE
5	9669-SP2-DISCRETE
6	9669-SP3-DISCRETE
7	9669-DRUM-COMP
8	9669-P1-4
9	9669-P2-3.3
10	9669-P3-4
11	9669-T1-C-12
12	9669-T1-NW-8
13	9669-T1-EW-8
14	9669-T1-WW-8
15	9669-T2-C-12.5
16	9669-T2-SW-8
17	9669-T2-EW-8
18	9669-T2-WW-8
19	9669-T3-C-12
20	9669-T3-NW-8
21	9669-T3-SW-6.5
22	9669-T3-EW-9
23	9669-T3-WW-8

11th Street

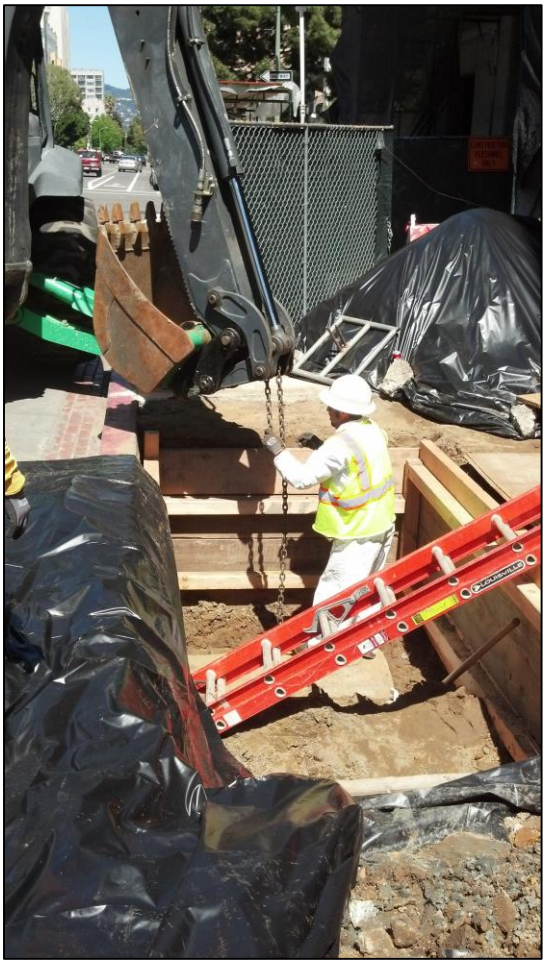
Not To Scale

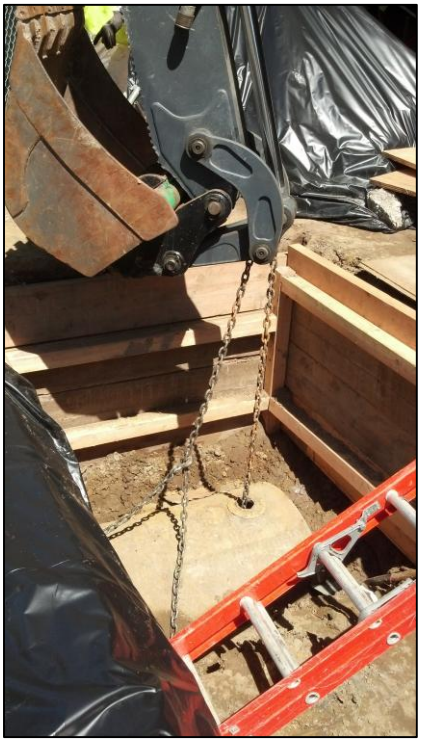
GOLDEN GATE TANK REMOVAL, INC.
1480 Carroll Avenue
San Francisco, California 94124
Phone (415) 512-1555 Fax (415) 512-0964

Site Drawing
1110 Jackson Street
Oakland, California 94607

GGTR Proj. No. 9669	Figure By: EJ	March 2016	**Figure 2**









TANK REMOVAL ACTIVITIES

GOLDEN GATE TANK REMOVAL, INC. 1480 Carroll Avenue San Francisco, CA 94124 Ph (415) 512-1555 Fx (415) 512-0964		**UST REMOVAL** 1110 Jackson Street Oakland, CA 94607	
GGTR Project No. 9669	*Drawing By: GW*	June 2016	***Figure 3***





TANK REMOVAL ACTIVITIES



GOLDEN GATE TANK REMOVAL, INC. 1480 Carroll Avenue San Francisco, CA 94124 Ph (415) 512-1555 Fx (415) 512-0964		**UST REMOVAL** 1110 Jackson Street Oakland, CA 94607	
GGTR Project No. 9669	*Drawing By: GW*	June 2016	***Figure 3.1***









TANK REMOVAL ACTIVITIES

GOLDEN GATE TANK REMOVAL, INC. 1480 Carroll Avenue San Francisco, CA 94124 Ph (415) 512-1555 Fx (415) 512-0964		**UST REMOVAL** 1110 Jackson Street Oakland, CA 94607	
GGTR Project No. 9669	*Drawing By: GW*	June 2016	***Figure 3.2***

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TABLES

Accutest Northern California,Inc.				
Job Number:	**C45324**			
Account:	**Golden Gate Tank Removal**			
Project:	**1110 Jackson Street - Oakland, CA**			
Project Number:	**9669**			
			Legend:	Hit
Client Sample ID:		**9669-T1-TC**	**9669-T2-TC**	**9669-T3-TC**
Lab Sample ID:		**C45324-1**	**C45324-2**	**C45324-3**
Date Sampled:		**4/8/2016**	**4/8/2016**	**4/8/2016**
Matrix:		**Water**	**Water**	**Water**
GC/MS Volatiles (SW846 8260B)				
Acetone	ug/l	ND (2000)	ND (400)	ND (4.0)
Benzene	ug/l	2280	354	ND (0.20)
Bromobenzene	ug/l	ND (100)	ND (20)	ND (0.20)
Bromochloromethane	ug/l	ND (100)	ND (20)	ND (0.20)
Bromodichloromethane	ug/l	ND (100)	ND (20)	ND (0.20)
Bromoform	ug/l	ND (110)	ND (22)	ND (0.22)
n-Butylbenzene	ug/l	ND (100)	ND (20)	ND (0.20)
sec-Butylbenzene	ug/l	ND (100)	41.0 J	ND (0.20)
tert-Butylbenzene	ug/l	ND (140)	ND (28)	ND (0.28)
Chlorobenzene	ug/l	ND (100)	ND (20)	ND (0.20)
Chloroethane	ug/l	ND (100)	ND (20)	ND (0.20)
Chloroform	ug/l	ND (100)	ND (20)	ND (0.20)
o-Chlorotoluene	ug/l	ND (100)	ND (20)	ND (0.20)
p-Chlorotoluene	ug/l	ND (130)	ND (26)	ND (0.26)
Carbon tetrachloride	ug/l	ND (100)	ND (20)	ND (0.20)
1,1-Dichloroethane	ug/l	ND (100)	ND (20)	ND (0.20)
1,1-Dichloroethylene	ug/l	ND (100)	ND (20)	ND (0.20)
1,1-Dichloropropene	ug/l	ND (100)	ND (20)	ND (0.20)
1,2-Dibromo-3-chloropropane	ug/l	ND (200)	ND (40)	ND (0.40)
1,2-Dibromoethane	ug/l	ND (100)	ND (20)	ND (0.20)
1,2-Dichloroethane	ug/l	ND (100)	ND (20)	ND (0.20)
1,2-Dichloropropane	ug/l	ND (100)	ND (20)	ND (0.20)
1,3-Dichloropropane	ug/l	ND (100)	ND (20)	ND (0.20)
Di-Isopropyl ether	ug/l	ND (110)	ND (22)	ND (0.22)
2,2-Dichloropropane	ug/l	ND (100)	ND (20)	ND (0.20)
Dibromochloromethane	ug/l	ND (100)	ND (20)	ND (0.20)
Dichlorodifluoromethane	ug/l	ND (100)	ND (20)	ND (0.20)
cis-1,2-Dichloroethylene	ug/l	ND (100)	ND (20)	ND (0.20)
cis-1,3-Dichloropropene	ug/l	ND (100)	ND (20)	ND (0.20)
m-Dichlorobenzene	ug/l	ND (100)	ND (20)	ND (0.20)
o-Dichlorobenzene	ug/l	ND (100)	ND (20)	ND (0.20)
p-Dichlorobenzene	ug/l	ND (100)	ND (20)	ND (0.20)

trans-1,2-Dichloroethylene	ug/l	ND (100)	ND (20)	ND (0.20)
trans-1,3-Dichloropropene	ug/l	ND (150)	ND (30)	ND (0.30)
Ethylbenzene	ug/l	486 J	212	ND (0.20)
Ethyl Tert Butyl Ether	ug/l	ND (110)	ND (22)	ND (0.22)
2-Hexanone	ug/l	ND (1000)	ND (200)	ND (2.0)
Hexachlorobutadiene	ug/l	ND (100)	ND (20)	ND (0.20)
Isopropylbenzene	ug/l	ND (100)	73.3 J	ND (0.20)
p-Isopropyltoluene	ug/l	ND (100)	64.8 J	ND (0.20)
4-Methyl-2-pentanone	ug/l	ND (500)	ND (100)	ND (1.0)
Methyl bromide	ug/l	ND (100)	ND (20)	ND (0.20)
Methyl chloride	ug/l	ND (150)	ND (30)	ND (0.30)
Methylene bromide	ug/l	ND (100)	ND (20)	ND (0.20)
Methylene chloride	ug/l	ND (1000)	ND (200)	ND (2.0)
Methyl ethyl ketone	ug/l	ND (1000)	ND (200)	ND (2.0)
Methyl Tert Butyl Ether	ug/l	ND (100)	ND (20)	ND (0.20)
Naphthalene	ug/l	349 J	454 J	ND (0.50)
n-Propylbenzene	ug/l	ND (100)	105 J	ND (0.20)
Styrene	ug/l	ND (100)	ND (20)	ND (0.20)
Tert-Amyl Methyl Ether	ug/l	ND (200)	ND (40)	ND (0.40)
Tert-Butyl Alcohol	ug/l	ND (1200)	ND (240)	ND (2.4)
1,1,1,2-Tetrachloroethane	ug/l	ND (150)	ND (30)	ND (0.30)
1,1,1-Trichloroethane	ug/l	ND (100)	ND (20)	ND (0.20)
1,1,2,2-Tetrachloroethane	ug/l	ND (100)	ND (20)	ND (0.20)
1,1,2-Trichloroethane	ug/l	ND (110)	ND (22)	ND (0.22)
1,2,3-Trichlorobenzene	ug/l	ND (100)	ND (20)	ND (0.20)
1,2,3-Trichloropropane	ug/l	ND (100)	ND (20)	ND (0.20)
1,2,4-Trichlorobenzene	ug/l	ND (100)	ND (20)	ND (0.20)
1,2,4-Trimethylbenzene	ug/l	367 J	948	ND (0.20)
1,3,5-Trimethylbenzene	ug/l	ND (100)	281	ND (0.20)
Tetrachloroethylene	ug/l	ND (150)	43.9 J	ND (0.30)
Toluene	ug/l	7250	876	ND (0.20)
Trichloroethylene	ug/l	ND (100)	ND (20)	ND (0.20)
Trichlorofluoromethane	ug/l	ND (100)	ND (20)	ND (0.20)
Vinyl chloride	ug/l	ND (100)	ND (20)	ND (0.20)
Xylene (total)	ug/l	3570	4410	ND (0.46)
TPH-GRO (C6-C10)	ug/l	39100	42700	ND (25)
GC Semi-volatiles (SW846 8015B M)				
TPH (Diesel)	mg/l	8.25 J	ND (4.7)	0.0878 J
TPH (Motor Oil)	mg/l	ND (9.4)	ND (9.4)	0.109 J
TPH (Mineral Spirits)	mg/l	120 [a]	91.3 [a]	ND (0.047)
TPH (Kerosene)	mg/l	ND (4.7)	ND (4.7)	ND (0.047)
GC Semi-volatiles (SW846 8082)				
Aroclor 1016	ug/l	ND (0.0055)	ND (0.11)	ND (0.0056)

Aroclor 1221	ug/l	ND (0.020)	ND (0.40)	ND (0.020)
Aroclor 1232	ug/l	ND (0.0053)	ND (0.11)	ND (0.0054)
Aroclor 1242	ug/l	ND (0.010)	ND (0.21)	ND (0.011)
Aroclor 1248	ug/l	ND (0.013)	ND (0.26)	ND (0.013)
Aroclor 1254	ug/l	ND (0.0042)	ND (0.085)	ND (0.0043)
Aroclor 1260	ug/l	ND (0.0041)	ND (0.081)	ND (0.0041)
Footnotes:				
[a] Pattern appears to be Stoddard Solvent related but does not match with calibration standard, quantitated as best match.				

Accutest Northern California,Inc.								
Job Number:	**C45413**							
Account:	**Golden Gate Tank Removal**							
Project:	**1110 Jackson Street - Oakland, CA**							
Project Number:	**9669**							
							Legend:	Hit
Client Sample ID:		**9669-T1-C-9**	**9669-T2-C-9**	**9669-T3-C-8**	**9669-SP1-DISCRETE**	**9669-SP2-DISCRETE**	**9669-SP3-DISCRETE**	**9669-DRUM-COMP**
Lab Sample ID:		**C45413-1**	**C45413-2**	**C45413-3**	**C45413-4**	**C45413-5**	**C45413-6**	**C45413-11**
Date Sampled:		**04/15/2016**	**04/15/2016**	**04/15/2016**	**04/15/2016**	**04/15/2016**	**04/15/2016**	**04/15/2016**
Matrix:		**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
GC/MS Volatiles (SW846 8260B)								
Acetone	ug/kg	ND (9200)	ND (18000)	ND (45000)	ND (490)	ND (45000)	ND (480)	ND (8200)
Benzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Bromobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Bromochloromethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Bromodichloromethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)

Bromoform	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
n-Butylbenzene	ug/kg	479 J	ND (920)	4030 J	ND (24)	3360 J	ND (24)	538 J
sec-Butylbenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	2270 J	ND (24)	ND (410)
tert-Butylbenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Chlorobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Chloroethane	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
Chloroform	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
o-Chlorotoluene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
p-Chlorotoluene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Carbon tetrachloride	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,1-Dichloroethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,1-Dichloroethylene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,1-Dichloropropene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,2-Dibromo-3-chloropropane	ug/kg	ND (1300)	ND (2600)	ND (6300)	ND (68)	ND (6300)	ND (68)	ND (1100)
1,2-Dibromoethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,2-Dichloroethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,2-Dichloropropane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,3-Dichloropropane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Di-Isopropyl ether	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
2,2-Dichloropropane	ug/kg	ND (460) [a]	ND (920) [a]	ND (2200) [a]	ND (24) [a]	ND (2200) [a]	ND (24) [a]	ND (410) [a]

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General Engineering Contractors License No. 616521

Dibromochloromethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Dichlorodifluoromethane	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
cis-1,2-Dichloroethylene	ug/kg	ND (1000)	ND (2000)	ND (4900)	ND (54)	ND (4900)	ND (53)	ND (900)
cis-1,3-Dichloropropene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
m-Dichlorobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
o-Dichlorobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
p-Dichlorobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
trans-1,2-Dichloroethylene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
trans-1,3-Dichloropropene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Ethylbenzene	ug/kg	ND (460)	ND (920)	2500 J	ND (24)	ND (2200)	ND (24)	677 J
Ethyl tert-Butyl Ether	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
2-Hexanone	ug/kg	ND (1800)	ND (3700)	ND (9000)	ND (97)	ND (8900)	ND (97)	ND (1600)
Hexachlorobutadiene	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
Isopropylbenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
p-Isopropyltoluene	ug/kg	ND (460)	ND (920)	2870 J	ND (24)	ND (2200)	ND (24)	422 J
4-Methyl-2-pentanone	ug/kg	ND (1800)	ND (3700)	ND (9000)	ND (97)	ND (8900)	ND (97)	ND (1600)
Methyl bromide	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
Methyl chloride	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
Methylene bromide	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Methylene chloride	ug/kg	ND (4600)	ND (9200)	ND (22000)	ND (240)	ND (22000)	ND (240)	ND (4100)

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Methyl ethyl ketone	ug/kg	ND (1800)	ND (3700)	ND (9000)	ND (97)	ND (8900)	ND (97)	ND (1600)
Methyl Tert Butyl Ether	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
Naphthalene	ug/kg	ND (920)	ND (1800)	4590 J	ND (49)	ND (4500)	ND (48)	ND (820)
n-Propylbenzene	ug/kg	532 J	ND (920)	3540 J	ND (24)	2640 J	ND (24)	695 J
Styrene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Tert-Amyl Methyl Ether	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Tert Butyl Alcohol	ug/kg	ND (9200)	ND (18000)	ND (45000) [a]	ND (490)	ND (45000)	ND (480)	ND (8200)
1,1,1,2-Tetrachloroethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,1,1-Trichloroethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,1,2,2-Tetrachloroethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,1,2-Trichloroethane	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,2,3-Trichlorobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,2,3-Trichloropropane	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
1,2,4-Trichlorobenzene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
1,2,4-Trimethylbenzene	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	1590 J
1,3,5-Trimethylbenzene	ug/kg	ND (920)	ND (1800)	6170 J	ND (49)	ND (4500)	ND (48)	ND (820)
Tetrachloroethylene	ug/kg	ND (550)	ND (1100)	ND (2700)	ND (29)	ND (2700)	ND (29)	ND (490)
Toluene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	1340 J
Trichloroethylene	ug/kg	ND (460)	ND (920)	ND (2200)	ND (24)	ND (2200)	ND (24)	ND (410)
Trichlorofluoromethane	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)

Vinyl chloride	ug/kg	ND (920)	ND (1800)	ND (4500)	ND (49)	ND (4500)	ND (48)	ND (820)
Xylene (total)	ug/kg	ND (920)	ND (1800)	9280 J	ND (49)	ND (4500)	ND (48)	3890 J
TPH-GRO (C6-C10)	ug/kg	394000	491000	2480000	ND (2400)	3290000	ND (2400)	497000
GC/MS Semi-volatiles (SW846 8270C BY SIM)								
Acenaphthene	ug/kg	ND (8.9)	ND (9.0)	24.2 J	-	-	-	-
Acenaphthylene	ug/kg	ND (12)	ND (12)	ND (12)	-	-	-	-
Anthracene	ug/kg	ND (9.4)	ND (9.4)	ND (9.4)	-	-	-	-
Benzo(a)anthracene	ug/kg	ND (6.3)	ND (6.3)	ND (6.3)	-	-	-	-
Benzo(a)pyrene	ug/kg	ND (5.8)	ND (5.8)	ND (5.8)	-	-	-	-
Benzo(b)fluoranthene	ug/kg	ND (11)	ND (11)	ND (11)	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	ND (13)	ND (13)	ND (13)	-	-	-	-
Benzo(k)fluoranthene	ug/kg	ND (11)	ND (11)	ND (11)	-	-	-	-
Chrysene	ug/kg	ND (11)	ND (11)	ND (11)	-	-	-	-
Dibenzo(a,h)anthracene	ug/kg	ND (14)	ND (14)	ND (14)	-	-	-	-
Fluoranthene	ug/kg	ND (11)	ND (11)	ND (11)	-	-	-	-
Fluorene	ug/kg	ND (9.9)	ND (9.9)	72.8	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	ND (14)	ND (14)	ND (14)	-	-	-	-
1-Methylnaphthalene	ug/kg	220	132	2280	-	-	-	-

2-Methylnaphthalene	ug/kg	356	238	4130	-	-	-	-
Naphthalene	ug/kg	33.5 J	220	1960	-	-	-	-
Phenanthrene	ug/kg	ND (7.3)	ND (7.3)	34.6 J	-	-	-	-
Pyrene	ug/kg	ND (17)	ND (17)	ND (17)	-	-	-	-
GC Semi-volatiles (SW846 8015B M)								
TPH (Diesel)	mg/kg	3.24 J	19.0	ND (33)	2.81 J	ND (17)	7.14	3.47
TPH (Motor Oil)	mg/kg	6.90	4.04 J	ND (66)	6.61	ND (33)	19.0	10.6
TPH (Mineral Spirits)	mg/kg	ND (1.7)	ND (1.7)	ND (33)	ND (1.7)	ND (17)	ND (1.7)	ND (1.7)
TPH (Kerosene)	mg/kg	25.2	ND (1.7)	580	ND (1.7)	217 [b]	ND (1.7)	62.3 [b]
Metals Analysis								
Cadmium	mg/kg	<0.93	<0.83	<0.88	-	-	-	<0.99
Chromium	mg/kg	67.3	58.1	62.5	-	-	-	54.1
Lead	mg/kg	3.9	7.9	3.7	-	-	-	7.6
Nickel	mg/kg	40.1	35.4	40.0	-	-	-	31.8
Zinc	mg/kg	34.9	52.6	30.5	-	-	-	176

Footnotes:
[a] CCV outside of control limits (biased high); not detected in sample.
[b] Pattern appears to be Jet-A related but does not perfectly match with calibration standard, quantitated as best match.

Accutest Northern California,Inc.		
Job Number:		**C45413W**
Account:		**Golden Gate Tank Removal**
Project:		**1110 Jackson Street - Oakland, CA**
Project Number:		**9669**
	Legend:	Hit
Client Sample ID:		**9669-DRUM-COMP**
Lab Sample ID:		**C45413-11W**
Date Sampled:		**04/15/2016**
Matrix:		**Soil**
Metals Analysis		
Chromium	mg/l	0.34

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Accutest Northern California,Inc.		
Job Number:		**C45413T**
Account:		**Golden Gate Tank Removal**
Project:		**1110 Jackson Street - Oakland, CA**
Project Number:		**9669**
	Legend:	Hit
Client Sample ID:		**9669-DRUM-COMP**
Lab Sample ID:		**C45413-11T**
Date Sampled:		**04/15/2016**
Matrix:		**Soil**
Metals Analysis		
Chromium	mg/l	<0.050

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Accutest Northern California,Inc.				
Job Number:	**C45495**			
Account:	**Golden Gate Tank Removal**			
Project:	**1110 Jackson Street - Oakland, CA**			
Project Number:	**9669**			
			Legend:	Hit
Client Sample ID:		**9669-P1-4**	**9669-P2-3.3**	**9669-P3-4**
Lab Sample ID:		**C45495-1**	**C45495-2**	**C45495-3**
Date Sampled:		**04/22/2016**	**04/22/2016**	**04/22/2016**
Matrix:		**Soil**	**Soil**	**Soil**
GC/MS Volatiles (SW846 8260B)				
Acetone	ug/kg	ND (10)	ND (9.9)	ND (10)
Benzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Bromobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Bromochloromethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Bromodichloromethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Bromoform	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
n-Butylbenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
sec-Butylbenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
tert-Butylbenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Chlorobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Chloroethane	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Chloroform	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
o-Chlorotoluene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
p-Chlorotoluene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Carbon tetrachloride	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,1-Dichloroethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,1-Dichloroethylene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,1-Dichloropropene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)

1,2-Dibromo-3-chloropropane	ug/kg	ND (1.4)	ND (1.4)	ND (1.4)
1,2-Dibromoethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,2-Dichloroethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,2-Dichloropropane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,3-Dichloropropane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Di-Isopropyl ether	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
2,2-Dichloropropane	ug/kg	ND (0.50) [a]	ND (0.50) [a]	ND (0.50) [a]
Dibromochloromethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Dichlorodifluoromethane	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
cis-1,2-Dichloroethylene	ug/kg	ND (1.1)	ND (1.1)	ND (1.1)
cis-1,3-Dichloropropene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
m-Dichlorobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
o-Dichlorobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
p-Dichlorobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
trans-1,2-Dichloroethylene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
trans-1,3-Dichloropropene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Ethylbenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Ethyl tert-Butyl Ether	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
2-Hexanone	ug/kg	ND (2.0)	ND (2.0)	ND (2.0)
Hexachlorobutadiene	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Isopropylbenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
p-Isopropyltoluene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
4-Methyl-2-pentanone	ug/kg	ND (2.0)	ND (2.0)	ND (2.0)
Methyl bromide	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Methyl chloride	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Methylene bromide	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Methylene chloride	ug/kg	5.2 J	6.5 J	6.0 J
Methyl ethyl ketone	ug/kg	ND (2.0)	ND (2.0)	ND (2.0)
Methyl Tert Butyl Ether	ug/kg	ND (1.0) [a]	ND (0.99) [a]	ND (1.0) [a]
Naphthalene	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
n-Propylbenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)

Styrene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Tert-Amyl Methyl Ether	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Tert Butyl Alcohol	ug/kg	ND (10) [a]	ND (9.9) [a]	ND (10) [a]
1,1,1,2-Tetrachloroethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,1,1-Trichloroethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,1,2,2-Tetrachloroethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,1,2-Trichloroethane	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,2,3-Trichlorobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,2,3-Trichloropropane	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
1,2,4-Trichlorobenzene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trimethylbenzene	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
1,3,5-Trimethylbenzene	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Tetrachloroethylene	ug/kg	ND (0.60)	ND (0.60)	ND (0.60)
Toluene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Trichloroethylene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Trichlorofluoromethane	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Vinyl chloride	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
Xylene (total)	ug/kg	ND (1.0)	ND (0.99)	ND (1.0)
TPH-GRO (C6-C10)	ug/kg	ND (50)	ND (50)	ND (50)
GC/MS Semi-volatiles (SW846 8270C BY SIM)				
Acenaphthene	ug/kg	ND (0.45)	ND (0.45)	ND (0.45)
Acenaphthylene	ug/kg	ND (0.58)	ND (0.58)	ND (0.58)
Anthracene	ug/kg	ND (0.47)	ND (0.47)	ND (0.47)
Benzo(a)anthracene	ug/kg	0.37 J	ND (0.31)	ND (0.32)
Benzo(a)pyrene	ug/kg	0.31 JB	ND (0.29)	0.38 JB
Benzo(b)fluoranthene	ug/kg	ND (0.57)	ND (0.57)	ND (0.57)
Benzo(g,h,i)perylene	ug/kg	ND (0.65)	ND (0.65)	ND (0.66)
Benzo(k)fluoranthene	ug/kg	ND (0.53)	ND (0.53)	ND (0.53)
Chrysene	ug/kg	ND (0.55)	ND (0.55)	ND (0.55)
Dibenzo(a,h)anthracene	ug/kg	ND (0.68)	ND (0.68)	ND (0.68)
Fluoranthene	ug/kg	ND (0.54)	ND (0.54)	ND (0.54)

Fluorene	ug/kg	ND (0.49)	ND (0.49)	ND (0.50)
Indeno(1,2,3-cd)pyrene	ug/kg	ND (0.69)	ND (0.69)	ND (0.69)
1-Methylnaphthalene	ug/kg	ND (0.56)	ND (0.56)	ND (0.56)
2-Methylnaphthalene	ug/kg	ND (0.40)	ND (0.40)	ND (0.40)
Naphthalene	ug/kg	ND (0.50)	ND (0.50)	ND (0.50)
Phenanthrene	ug/kg	ND (0.36)	ND (0.36)	ND (0.37)
Pyrene	ug/kg	ND (0.86)	ND (0.86)	ND (0.86)
GC Semi-volatiles (SW846 8015B M)				
TPH (Diesel)	mg/kg	ND (1.7)	ND (1.7)	ND (1.7)
TPH (Motor Oil)	mg/kg	ND (3.3)	ND (3.3)	ND (3.3)
TPH (Mineral Spirits)	mg/kg	ND (1.7)	ND (1.7)	ND (1.7)
TPH (Kerosene)	mg/kg	ND (1.7)	ND (1.7)	ND (1.7)
Metals Analysis				
Cadmium	mg/kg	<0.99	<1.0	<0.97
Chromium	mg/kg	41.4	36.4	37.0
Lead	mg/kg	2.4	2.4	4.2
Nickel	mg/kg	23.2	15.7	16.6
Zinc	mg/kg	20.4	20.6	25.8

Footnotes:
[a] CCV outside of control limits (biased high); not detected in sample.

SGS Accutest Northern California

Job Number:	**C45685**
Account:	**Golden Gate Tank Removal**
Project:	**1110 Jackson Street - Oakland, CA**
Project Number:	**9669**

Legend: Hit

Client Sample ID:		**9669-T1-EW-8'**	**9669-T1-C-12'**	**9669-T1-WW-8'**	**9669-T1-NW-8'**	**9669-T2-EW-6'**	**9669-T2-C-12.5**	**9669-T2-WW-8'**	**9669-T2-SW-8'**	**9669-T3-WW-8'**	**9669-T3-C-12'**
Lab Sample ID:		**C45685-1**	**C45685-2**	**C45685-3**	**C45685-4**	**C45685-5**	**C45685-6**	**C45685-7**	**C45685-8**	**C45685-9**	**C45685-10**
Date Sampled:		**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**	**5/4/2016**
Matrix:		**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
GC/MS Volatiles (SW846 8260B)											
Acetone	ug/kg	ND (6000)	ND (5400)	ND (5600)	ND (9400)	ND (4600)	ND (46000)	ND (4400)	ND (4600)	ND (490)	ND (480)
Benzene	ug/kg	ND (300)	ND (270)	643 J	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Bromobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Bromochloromethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Bromodichloromethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Bromoform	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
n-Butylbenzene	ug/kg	318 J	ND (270)	ND (280)	530 J	244 J	5640 J	ND (220)	ND (230)	ND (25)	ND (24)
sec-Butylbenzene	ug/kg	ND (300)	273 J	417 J	744 J	ND (230)	6250 J	ND (220)	ND (230)	ND (25)	63.9 J
tert-Butylbenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Chlorobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Chloroethane	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
Chloroform	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
o-Chlorotoluene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)

p-Chlorotoluene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Carbon tetrachloride	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,1-Dichloroethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,1-Dichloroethylene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,1-Dichloropropene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,2-Dibromo-3-chloropropane	ug/kg	ND (840)	ND (760)	ND (790)	ND (1300)	ND (640)	ND (6400)	ND (620)	ND (650)	ND (69)	ND (67)
1,2-Dibromoethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,2-Dichloroethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,2-Dichloropropane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,3-Dichloropropane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Di-Isopropyl ether	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
2,2-Dichloropropane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Dibromochloromethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Dichlorodifluoromethane	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
cis-1,2-Dichloroethylene	ug/kg	ND (660)	ND (590)	ND (620)	ND (1000)	ND (500)	ND (5000)	ND (490)	ND (510)	ND (54)	ND (53)
cis-1,3-Dichloropropene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
m-Dichlorobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
o-Dichlorobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
p-Dichlorobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
trans-1,2-Dichloroethylene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
trans-1,3-Dichloropropene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Ethylbenzene	ug/kg	624 J	293 J	392 J	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Ethyl tert-Butyl Ether	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24) [a]
2-Hexanone	ug/kg	ND (1200)	ND (1100)	ND (1100)	ND (1900)	ND (920)	ND (9100)	ND (880)	ND (930)	ND (98)	ND (96)
Hexachlorobutadiene	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
Isopropylbenzene	ug/kg	ND (300)	350 J	ND (280)	ND (470)	ND (230)	10700 J	ND (220)	ND (230)	ND (25)	ND (24)
p-Isopropyltoluene	ug/kg	ND (300)	ND (270)	555 J	ND (470)	ND (230)	2620 J	ND (220)	ND (230)	ND (25)	86.8 J

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4-Methyl-2-pentanone	ug/kg	ND (1200)	ND (1100)	ND (1100)	ND (1900)	ND (920)	ND (9100)	ND (880)	ND (930)	ND (98)	ND (96)
Methyl bromide	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
Methyl chloride	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
Methylene bromide	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Methylene chloride	ug/kg	ND (3000)	ND (2700)	ND (2800)	ND (4700)	ND (2300)	ND (23000)	ND (2200)	ND (2300)	ND (250)	ND (240)
Methyl ethyl ketone	ug/kg	ND (1200)	ND (1100)	ND (1100)	ND (1900)	ND (920)	ND (9100)	ND (880)	ND (930)	ND (98)	ND (96)
Methyl Tert Butyl Ether	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48) [a]
Naphthalene	ug/kg	ND (600)	900 J	ND (560)	ND (940)	626 J	7770 J	ND (440)	ND (460)	ND (49)	74.3 J
n-Propylbenzene	ug/kg	362 J	559 J	ND (280)	659 J	ND (230)	13000 J	261 J	236 J	ND (25)	36.1 J
Styrene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Tert-Amyl Methyl Ether	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24) [a]
Tert Butyl Alcohol	ug/kg	ND (6000) [a]	ND (5400) [a]	ND (5600) [a]	ND (9400) [a]	ND (4600)	ND (46000) [a]	ND (4400) [a]	ND (4600) [a]	ND (490) [a]	ND (480) [a]
1,1,1,2-Tetrachloroethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,1,1-Trichloroethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,1,2,2-Tetrachloroethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,1,2-Trichloroethane	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,2,3-Trichlorobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,2,3-Trichloropropane	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
1,2,4-Trichlorobenzene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
1,2,4-Trimethylbenzene	ug/kg	758 J	735 J	ND (560)	ND (940)	ND (460)	5410 J	ND (440)	ND (460)	ND (49)	106 J
1,3,5-Trimethylbenzene	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	157 J
Tetrachloroethylene	ug/kg	ND (360)	ND (320)	ND (340)	ND (570)	ND (280)	ND (2700)	ND (260)	ND (280)	ND (30)	ND (29)
Toluene	ug/kg	805 J	449 J	750 J	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Trichloroethylene	ug/kg	ND (300)	ND (270)	ND (280)	ND (470)	ND (230)	ND (2300)	ND (220)	ND (230)	ND (25)	ND (24)
Trichlorofluoromethane	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)
Vinyl chloride	ug/kg	ND (600)	ND (540)	ND (560)	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	ND (48)

Xylene (total)	ug/kg	3050 J	1330 J	1460 J	ND (940)	ND (460)	ND (4600)	ND (440)	ND (460)	ND (49)	62.0 J
TPH-GRO (C6-C10)	ug/kg	370000	315000	471000	661000	78800	6320000	178000	144000	ND (2500)	67800
GC/MS Semi-volatiles (SW846 8270C BY SIM)											
Acenaphthene	ug/kg	ND (0.45)	0.97 J	2.7 J	5.6	ND (0.45)	6.2	ND (0.45)	ND (0.45)	ND (0.45)	3.7
Acenaphthylene	ug/kg	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
Anthracene	ug/kg	ND (0.47)	ND (0.47)	0.77 J	0.96 J	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)
Benzo(a)anthracene	ug/kg	ND (0.31)	1.6 J	ND (0.32)	4.4	ND (0.31)	1.0 J	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Benzo(a)pyrene	ug/kg	ND (0.29)	0.69 J	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Benzo(b)fluoranthene	ug/kg	ND (0.57)	0.58 J	ND (0.57)	ND (0.56)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Benzo(g,h,i)perylene	ug/kg	ND (0.65)	ND (0.65)	ND (0.65)	0.80 J	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.66)	ND (0.66)	ND (0.66)
Benzo(k)fluoranthene	ug/kg	ND (0.53)	0.57 J	ND (0.53)	ND (0.52)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Chrysene	ug/kg	ND (0.55)	2.4 J	0.86 J	6.7	ND (0.55)	1.3 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
Dibenzo(a,h)anthracene	ug/kg	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Fluoranthene	ug/kg	ND (0.54)	0.87 J	0.91 J	3.6	ND (0.54)	1.1 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
Fluorene	ug/kg	0.63 J	3.0 J	6.4	12.9	ND (0.49)	19.1	ND (0.49)	0.61 J	ND (0.50)	12.1
Indeno(1,2,3-cd)pyrene	ug/kg	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
1-Methylnaphthalene	ug/kg	25.9	342	125	154	15.5	1860	35.7	52.4	ND (0.56)	124
2-Methylnaphthalene	ug/kg	13.3	701	38.9	154	28.5	3560	64.2	95.6	0.50 J	242
Naphthalene	ug/kg	25.7	426	121	68	14.2	2580	33.3	53.8	ND (0.50)	91.3
Phenanthrene	ug/kg	0.56 J	3.7	3.4	19.3	ND (0.36)	7	0.47 J	0.41 J	ND (0.37)	6.5
Pyrene	ug/kg	ND (0.85)	2.1 J	1.3 J	6.9	ND (0.85)	1.6 J	ND (0.86)	ND (0.86)	ND (0.86)	ND (0.86)
GC Semi-volatiles (SW846 8015B M)											
TPH (Diesel)	mg/kg	ND (1.7)	ND (1.7)	ND (6.6)	ND (6.6)	ND (1.7)	ND (17)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.6)
TPH (Motor Oil)	mg/kg	8.98	41.8	26	135	ND (3.3)	34.4 J	ND (3.3)	4.19 J	ND (3.3)	ND (3.3)
TPH (Mineral Spirits)	mg/kg	ND (1.7)	ND (1.7)	ND (6.6)	ND (6.6)	ND (1.7)	ND (17)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.6)

TPH (Kerosene)	mg/kg	18.6 [b]	62.0 [b]	103 [b]	56.9 [b]	8.20 [b]	262 [b]	4.73 [c]	16.2 [b]	ND (1.7)	31.8 [d]
Metals Analysis											
Cadmium	mg/kg	<0.91	<0.83	<0.88	<0.93	<0.93	<0.87	<0.88	<0.94	<0.90	<0.82
Chromium	mg/kg	47.9	69.4	45.7	49.3	69.3	61.6	46.4	63	56.7	58.7
Lead	mg/kg	3.7	3.9	3.3	3.4	4	2.4	3.2	3.8	3.5	2.9
Nickel	mg/kg	32.5	43.7	32.5	32.1	42.5	47.2	32.2	33.9	32.8	40.4
Zinc	mg/kg	31.1	34.9	27.2	26.5	26.9	22.5	26	25.3	27.7	21.3
Client Sample ID:		**9669-T3-SW-6.5**	**9669-T3-NW-8'**	**9669-T3-EW-9'**							
Lab Sample ID:		**C45685-11**	**C45685-12**	**C45685-13**							
Date Sampled:		**5/4/2016**	**5/4/2016**	**5/4/2016**							
Matrix:		**Soil**	**Soil**	**Soil**							
GC/MS Volatiles (SW846 8260B)											
Acetone	ug/kg	ND (45000)	ND (430)	ND (450)							
Benzene	ug/kg	ND (2300)	ND (21)	ND (23)							
Bromobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
Bromochloromethane	ug/kg	ND (2300)	ND (21)	ND (23)							
Bromodichloromethane	ug/kg	ND (2300)	ND (21)	ND (23)							
Bromoform	ug/kg	ND (2300)	ND (21)	ND (23)							
n-Butylbenzene	ug/kg	ND (2300)	24.3 J	ND (23)							
sec-Butylbenzene	ug/kg	10100 J	ND (21)	ND (23)							
tert-Butylbenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
Chlorobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							

Chloroethane	ug/kg	ND (4500)	ND (43)	ND (45)							
Chloroform	ug/kg	ND (2300)	ND (21)	ND (23)							
o-Chlorotoluene	ug/kg	ND (2300)	ND (21)	ND (23)							
p-Chlorotoluene	ug/kg	ND (2300)	ND (21)	ND (23)							
Carbon tetrachloride	ug/kg	ND (2300)	ND (21)	ND (23)							
1,1-Dichloroethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,1-Dichloroethylene	ug/kg	ND (2300)	ND (21)	ND (23)							
1,1-Dichloropropene	ug/kg	ND (2300)	ND (21)	ND (23)							
1,2-Dibromo-3-chloropropane	ug/kg	ND (6400)	ND (60)	ND (63)							
1,2-Dibromoethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,2-Dichloroethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,2-Dichloropropane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,3-Dichloropropane	ug/kg	ND (2300)	ND (21)	ND (23)							
Di-Isopropyl ether	ug/kg	ND (2300)	ND (21)	ND (23)							
2,2-Dichloropropane	ug/kg	ND (2300)	ND (21)	ND (23)							
Dibromochloromethane	ug/kg	ND (2300)	ND (21)	ND (23)							
Dichlorodifluoromethane	ug/kg	ND (4500)	ND (43)	ND (45)							
cis-1,2-Dichloroethylene	ug/kg	ND (5000)	ND (47)	ND (50)							
cis-1,3-Dichloropropene	ug/kg	ND (2300)	ND (21)	ND (23)							
m-Dichlorobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
o-Dichlorobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
p-Dichlorobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
trans-1,2-Dichloroethylene	ug/kg	ND (2300)	ND (21)	ND (23)							
trans-1,3-Dichloropropene	ug/kg	ND (2300)	ND (21)	ND (23)							
Ethylbenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
Ethyl tert-Butyl Ether	ug/kg	ND (2300)	ND (21) [a]	ND (23) [a]							
2-Hexanone	ug/kg	ND (9100)	ND (86)	ND (91)							

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Hexachlorobutadiene	ug/kg	ND (4500)	ND (43)	ND (45)							
Isopropylbenzene	ug/kg	2550 J	ND (21)	ND (23)							
p-Isopropyltoluene	ug/kg	18600 J	ND (21)	ND (23)							
4-Methyl-2-pentanone	ug/kg	ND (9100)	ND (86)	ND (91)							
Methyl bromide	ug/kg	ND (4500)	ND (43)	ND (45)							
Methyl chloride	ug/kg	ND (4500)	ND (43)	ND (45)							
Methylene bromide	ug/kg	ND (2300)	ND (21)	ND (23)							
Methylene chloride	ug/kg	ND (23000)	ND (210)	ND (230)							
Methyl ethyl ketone	ug/kg	ND (9100)	ND (86)	ND (91)							
Methyl Tert Butyl Ether	ug/kg	ND (4500)	ND (43) [a]	ND (45) [a]							
Naphthalene	ug/kg	9000 J	ND (43)	ND (45)							
n-Propylbenzene	ug/kg	5400 J	ND (21)	ND (23)							
Styrene	ug/kg	ND (2300)	ND (21)	ND (23)							
Tert-Amyl Methyl Ether	ug/kg	ND (2300)	ND (21) [a]	ND (23) [a]							
Tert Butyl Alcohol	ug/kg	ND (45000) [a]	ND (430) [a]	ND (450) [a]							
1,1,1,2-Tetrachloroethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,1,1-Trichloroethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,1,2,2-Tetrachloroethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,1,2-Trichloroethane	ug/kg	ND (2300)	ND (21)	ND (23)							
1,2,3-Trichlorobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
1,2,3-Trichloropropane	ug/kg	ND (4500)	ND (43)	ND (45)							
1,2,4-Trichlorobenzene	ug/kg	ND (2300)	ND (21)	ND (23)							
1,2,4-Trimethylbenzene	ug/kg	78600	61.7 J	ND (45)							
1,3,5-Trimethylbenzene	ug/kg	36900	ND (43)	ND (45)							
Tetrachloroethylene	ug/kg	ND (2700)	ND (26)	ND (27)							
Toluene	ug/kg	ND (2300)	ND (21)	ND (23)							

Trichloroethylene	ug/kg	ND (2300)	ND (21)	ND (23)							
Trichlorofluoromethane	ug/kg	ND (4500)	ND (43)	ND (45)							
Vinyl chloride	ug/kg	ND (4500)	ND (43)	ND (45)							
Xylene (total)	ug/kg	6640 J	ND (43)	ND (45)							
TPH-GRO (C6-C10)	ug/kg	1330000	6960	ND (2300)							
GC/MS Semi-volatiles (SW846 8270C BY SIM)											
Acenaphthene	ug/kg	24.5 J	ND (0.45)	ND (0.45)							
Acenaphthylene	ug/kg	ND (12)	ND (0.58)	ND (0.58)							
Anthracene	ug/kg	ND (9.4)	ND (0.47)	ND (0.47)							
Benzo(a)anthracene	ug/kg	ND (6.3)	ND (0.32)	ND (0.32)							
Benzo(a)pyrene	ug/kg	ND (5.8)	ND (0.29)	ND (0.29)							
Benzo(b)fluoranthene	ug/kg	ND (11)	ND (0.57)	ND (0.57)							
Benzo(g,h,i)perylene	ug/kg	ND (13)	ND (0.66)	ND (0.66)							
Benzo(k)fluoranthene	ug/kg	ND (11)	ND (0.53)	ND (0.53)							
Chrysene	ug/kg	ND (11)	ND (0.55)	ND (0.55)							
Dibenzo(a,h)anthracene	ug/kg	ND (14)	ND (0.68)	ND (0.68)							
Fluoranthene	ug/kg	ND (11)	ND (0.54)	ND (0.54)							
Fluorene	ug/kg	96.9	ND (0.50)	ND (0.50)							
Indeno(1,2,3-cd)pyrene	ug/kg	ND (14)	ND (0.69)	ND (0.69)							
1-Methylnaphthalene	ug/kg	1970	4.1	0.82 J							
2-Methylnaphthalene	ug/kg	3330	6.6	1.4 J							
Naphthalene	ug/kg	724	1.8 J	0.58 J							
Phenanthrene	ug/kg	38.9 J	ND (0.37)	ND (0.37)							
Pyrene	ug/kg	ND (17)	ND (0.86)	ND (0.86)							
GC Semi-volatiles (SW846 8015B M)											

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TPH (Diesel)	mg/kg	ND (170)	ND (1.7)	ND (1.7)							
TPH (Motor Oil)	mg/kg	ND (330)	ND (3.3)	ND (3.3)							
TPH (Mineral Spirits)	mg/kg	ND (170)	ND (1.7)	ND (1.7)							
TPH (Kerosene)	mg/kg	5090 [e]	ND (1.7)	ND (1.7)							
Metals Analysis											
Cadmium	mg/kg	<0.83	<0.97	<0.91							
Chromium	mg/kg	46.8	57.1	51.9							
Lead	mg/kg	17.1	3.7	3.3							
Nickel	mg/kg	30	34.9	33.4							
Zinc	mg/kg	31.9	28	30.4							
Footnotes:											
[a] CCV outside of control limits (biased high); not detected in sample.											
[b] Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.											
[c] Jet-fuel pattern is not present.											
[d] Pattern resembles Jet Fuel.											
[e] Pattern resembles Kerosene.											

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ATTACHMENTS

ANALYTICAL REPORTS
LIQUID WASTE MANIFESTS
SOIL WASTE MANIFEST/WEIGHT TAGS
UST UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION REPORT
HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
UST DISPOSAL MANIFEST
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Automated Report

Technical Report for

Golden Gate Tank Removal

1110 Jackson Street - Oakland, CA

9669

SGS Accutest Job Number: C45324

Sampling Date: 04/08/16



Report to:

Golden Gate Tank Removal

gina.wee@ggtr.com

ATTN: Gina Wee

Total number of pages in report: **41**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

Golden Gate Tank Removal

Job No: C45324

1110 Jackson Street - Oakland, CA
Project No: 9669

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45324-1	04/08/16	00:00 AM		04/11/16	AQ	Water	9669-T1-TC
C45324-2	04/08/16	00:00 AM		04/11/16	AQ	Water	9669-T2-TC
C45324-3	04/08/16	00:00 AM		04/11/16	AQ	Water	9669-T3-TC

Summary of Hits

Job Number: C45324
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/08/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45324-1	**9669-T1-TC**					
Benzene		2280	500	100	ug/l	SW846 8260B
Ethylbenzene		486 J	500	100	ug/l	SW846 8260B
Naphthalene		349 J	2500	250	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		367 J	1000	100	ug/l	SW846 8260B
Toluene		7250	500	100	ug/l	SW846 8260B
Xylene (total)		3570	1000	230	ug/l	SW846 8260B
TPH-GRO (C6-C10)		39100	25000	13000	ug/l	SW846 8260B
TPH (Diesel)		8.25 J	9.4	4.7	mg/l	SW846 8015B M
TPH (Mineral Spirits) [a]		120	9.4	4.7	mg/l	SW846 8015B M
C45324-2	**9669-T2-TC**					
Benzene [b]		354	100	20	ug/l	SW846 8260B
sec-Butylbenzene [b]		41.0 J	200	20	ug/l	SW846 8260B
Ethylbenzene [b]		212	100	20	ug/l	SW846 8260B
Isopropylbenzene [b]		73.3 J	100	20	ug/l	SW846 8260B
p-Isopropyltoluene [b]		64.8 J	200	20	ug/l	SW846 8260B
Naphthalene [b]		454 J	500	50	ug/l	SW846 8260B
n-Propylbenzene [b]		105 J	200	20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [b]		948	200	20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene [b]		281	200	20	ug/l	SW846 8260B
Tetrachloroethylene [b]		43.9 J	100	30	ug/l	SW846 8260B
Toluene [b]		876	100	20	ug/l	SW846 8260B
Xylene (total) [b]		4410	200	46	ug/l	SW846 8260B
TPH-GRO (C6-C10) [b]		42700	5000	2500	ug/l	SW846 8260B
TPH (Mineral Spirits) [a]		91.3	9.4	4.7	mg/l	SW846 8015B M
C45324-3	**9669-T3-TC**					
TPH (Diesel)		0.0878 J	0.094	0.047	mg/l	SW846 8015B M
TPH (Motor Oil)		0.109 J	0.19	0.094	mg/l	SW846 8015B M

(a) Pattern appears to be Stoddard Solvent related but does not match with calibration standard, quantitated as best match.
(b) Dilution required due to nature of sample matrix.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	9669-T1-TC		
Lab Sample ID:	C45324-1	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U34194.D	500	04/12/16	JC	n/a	n/a	VU1405
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10000	2000	ug/l	
71-43-2	Benzene	2280	500	100	ug/l	
108-86-1	Bromobenzene	ND	500	100	ug/l	
74-97-5	Bromochloromethane	ND	500	100	ug/l	
75-27-4	Bromodichloromethane	ND	500	100	ug/l	
75-25-2	Bromoform	ND	500	110	ug/l	
104-51-8	n-Butylbenzene	ND	1000	100	ug/l	
135-98-8	sec-Butylbenzene	ND	1000	100	ug/l	
98-06-6	tert-Butylbenzene	ND	1000	140	ug/l	
108-90-7	Chlorobenzene	ND	500	100	ug/l	
75-00-3	Chloroethane	ND	500	100	ug/l	
67-66-3	Chloroform	ND	500	100	ug/l	
95-49-8	o-Chlorotoluene	ND	1000	100	ug/l	
106-43-4	p-Chlorotoluene	ND	1000	130	ug/l	
56-23-5	Carbon tetrachloride	ND	500	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	100	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	500	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	200	ug/l	
106-93-4	1,2-Dibromoethane	ND	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	100	ug/l	
142-28-9	1,3-Dichloropropane	ND	500	100	ug/l	
108-20-3	Di-Isopropyl ether	ND	1000	110	ug/l	
594-20-7	2,2-Dichloropropane	ND	500	100	ug/l	
124-48-1	Dibromochloromethane	ND	500	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	100	ug/l	
541-73-1	m-Dichlorobenzene	ND	500	100	ug/l	
95-50-1	o-Dichlorobenzene	ND	500	100	ug/l	
106-46-7	p-Dichlorobenzene	ND	500	100	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T1-TC
Lab Sample ID: C45324-1
Matrix: AQ - Water
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/08/16
Date Received: 04/11/16
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	500	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	150	ug/l	
100-41-4	Ethylbenzene	486	500	100	ug/l	J
637-92-3	Ethyl Tert Butyl Ether	ND	1000	110	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
87-68-3	Hexachlorobutadiene	ND	1000	100	ug/l	
98-82-8	Isopropylbenzene	ND	500	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	1000	100	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5000	500	ug/l	
74-83-9	Methyl bromide	ND	1000	100	ug/l	
74-87-3	Methyl chloride	ND	500	150	ug/l	
74-95-3	Methylene bromide	ND	500	100	ug/l	
75-09-2	Methylene chloride	ND	5000	1000	ug/l	
78-93-3	Methyl ethyl ketone	ND	5000	1000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/l	
91-20-3	Naphthalene	349	2500	250	ug/l	J
103-65-1	n-Propylbenzene	ND	1000	100	ug/l	
100-42-5	Styrene	ND	500	100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	200	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	5000	1200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	150	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	110	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1000	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1000	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1000	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	367	1000	100	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	1000	100	ug/l	
127-18-4	Tetrachloroethylene	ND	500	150	ug/l	
108-88-3	Toluene	7250	500	100	ug/l	
79-01-6	Trichloroethylene	ND	500	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	100	ug/l	
75-01-4	Vinyl chloride	ND	500	100	ug/l	
1330-20-7	Xylene (total)	3570	1000	230	ug/l	
	TPH-GRO (C6-C10)	39100	25000	13000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-TC		
Lab Sample ID:	C45324-1	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-TC		
Lab Sample ID:	C45324-1	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OO384233.D	1	04/11/16	MT	04/11/16	OP14181	GOO1606
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.047	0.0055	ug/l	
11104-28-2	Aroclor 1221	ND	0.047	0.020	ug/l	
11141-16-5	Aroclor 1232	ND	0.047	0.0053	ug/l	
53469-21-9	Aroclor 1242	ND	0.047	0.010	ug/l	
12672-29-6	Aroclor 1248	ND	0.047	0.013	ug/l	
11097-69-1	Aroclor 1254	ND	0.047	0.0042	ug/l	
11096-82-5	Aroclor 1260	ND	0.047	0.0041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		10-134%
877-09-8	Tetrachloro-m-xylene	45%		10-134%
2051-24-3	Decachlorobiphenyl	98%		10-139%
2051-24-3	Decachlorobiphenyl	50%		10-139%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-TC		
Lab Sample ID:	C45324-1	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331553.D	100	04/12/16	YN	04/11/16	OP14182	GHH1787
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	8.25	9.4	4.7	mg/l	J
	TPH (Motor Oil)	ND	19	9.4	mg/l	
	TPH (Mineral Spirits) [a]	120	9.4	4.7	mg/l	
	TPH (Kerosene)	ND	9.4	4.7	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	132%		40-134%

(a) Pattern appears to be Stoddard Solvent related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-TC		
Lab Sample ID:	C45324-2	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U34199.D	100	04/12/16	JC	n/a	n/a	VU1405
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2000	400	ug/l	
71-43-2	Benzene	354	100	20	ug/l	
108-86-1	Bromobenzene	ND	100	20	ug/l	
74-97-5	Bromochloromethane	ND	100	20	ug/l	
75-27-4	Bromodichloromethane	ND	100	20	ug/l	
75-25-2	Bromoform	ND	100	22	ug/l	
104-51-8	n-Butylbenzene	ND	200	20	ug/l	
135-98-8	sec-Butylbenzene	41.0	200	20	ug/l	J
98-06-6	tert-Butylbenzene	ND	200	28	ug/l	
108-90-7	Chlorobenzene	ND	100	20	ug/l	
75-00-3	Chloroethane	ND	100	20	ug/l	
67-66-3	Chloroform	ND	100	20	ug/l	
95-49-8	o-Chlorotoluene	ND	200	20	ug/l	
106-43-4	p-Chlorotoluene	ND	200	26	ug/l	
56-23-5	Carbon tetrachloride	ND	100	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	20	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	40	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	20	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	20	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	22	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	20	ug/l	
124-48-1	Dibromochloromethane	ND	100	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	100	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	20	ug/l	
541-73-1	m-Dichlorobenzene	ND	100	20	ug/l	
95-50-1	o-Dichlorobenzene	ND	100	20	ug/l	
106-46-7	p-Dichlorobenzene	ND	100	20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-TC		
Lab Sample ID:	C45324-2	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	100	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	212	100	20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	22	ug/l	
591-78-6	2-Hexanone	ND	1000	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	200	20	ug/l	
98-82-8	Isopropylbenzene	73.3	100	20	ug/l	J
99-87-6	p-Isopropyltoluene	64.8	200	20	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND	1000	100	ug/l	
74-83-9	Methyl bromide	ND	200	20	ug/l	
74-87-3	Methyl chloride	ND	100	30	ug/l	
74-95-3	Methylene bromide	ND	100	20	ug/l	
75-09-2	Methylene chloride	ND	1000	200	ug/l	
78-93-3	Methyl ethyl ketone	ND	1000	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	20	ug/l	
91-20-3	Naphthalene	454	500	50	ug/l	J
103-65-1	n-Propylbenzene	105	200	20	ug/l	J
100-42-5	Styrene	ND	100	20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	1000	240	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	200	20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	948	200	20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	281	200	20	ug/l	
127-18-4	Tetrachloroethylene	43.9	100	30	ug/l	J
108-88-3	Toluene	876	100	20	ug/l	
79-01-6	Trichloroethylene	ND	100	20	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	ND	100	20	ug/l	
1330-20-7	Xylene (total)	4410	200	46	ug/l	
	TPH-GRO (C6-C10)	42700	5000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-123%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-TC		
Lab Sample ID:	C45324-2	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		88-112%
460-00-4	4-Bromofluorobenzene	101%		79-114%

(a) Dilution required due to nature of sample matrix.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-TC		
Lab Sample ID:	C45324-2	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OO384261.D	20	04/12/16	MT	04/11/16	OP14181	GOO1607
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.94	0.11	ug/l	
11104-28-2	Aroclor 1221	ND	0.94	0.40	ug/l	
11141-16-5	Aroclor 1232	ND	0.94	0.11	ug/l	
53469-21-9	Aroclor 1242	ND	0.94	0.21	ug/l	
12672-29-6	Aroclor 1248	ND	0.94	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.94	0.085	ug/l	
11096-82-5	Aroclor 1260	ND	0.94	0.081	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		10-134%
877-09-8	Tetrachloro-m-xylene	49%		10-134%
2051-24-3	Decachlorobiphenyl	82%		10-139%
2051-24-3	Decachlorobiphenyl	63%		10-139%

(a) Dilution required due to matrix interference (yellow oily extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-TC		
Lab Sample ID:	C45324-2	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331554.D	100	04/12/16	YN	04/11/16	OP14182	GHH1787
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.4	4.7	mg/l	
	TPH (Motor Oil)	ND	19	9.4	mg/l	
	TPH (Mineral Spirits) [a]	91.3	9.4	4.7	mg/l	
	TPH (Kerosene)	ND	9.4	4.7	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	121%		40-134%

(a) Pattern appears to be Stoddard Solvent related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-TC		
Lab Sample ID:	C45324-3	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U34203.D	1	04/12/16	JC	n/a	n/a	VU1405
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-TC		
Lab Sample ID:	C45324-3	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-123%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-TC		
Lab Sample ID:	C45324-3	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	90%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-TC		
Lab Sample ID:	C45324-3	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OO384234.D	1	04/11/16	MT	04/11/16	OP14181	GOO1606
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.048	0.0056	ug/l	
11104-28-2	Aroclor 1221	ND	0.048	0.020	ug/l	
11141-16-5	Aroclor 1232	ND	0.048	0.0054	ug/l	
53469-21-9	Aroclor 1242	ND	0.048	0.011	ug/l	
12672-29-6	Aroclor 1248	ND	0.048	0.013	ug/l	
11097-69-1	Aroclor 1254	ND	0.048	0.0043	ug/l	
11096-82-5	Aroclor 1260	ND	0.048	0.0041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		10-134%
877-09-8	Tetrachloro-m-xylene	52%		10-134%
2051-24-3	Decachlorobiphenyl	93%		10-139%
2051-24-3	Decachlorobiphenyl	53%		10-139%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-TC		
Lab Sample ID:	C45324-3	**Date Sampled:**	04/08/16
Matrix:	AQ - Water	**Date Received:**	04/11/16
Method:	SW846 8015B M SW846 3510C	**Percent Solids:**	n/a
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331546.D	1	04/12/16	YN	04/11/16	OP14182	GHH1787
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.0878	0.094	0.047	mg/l	J
	TPH (Motor Oil)	0.109	0.19	0.094	mg/l	J
	TPH (Mineral Spirits)	ND	0.094	0.047	mg/l	
	TPH (Kerosene)	ND	0.094	0.047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	112%		40-134%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest NC Job #: C45324

Client / Reporting Information

Company Name: GOLDEN GATE TANK REMOVAL
Address: 1980 CARROLL AVE
City / State / Zip: SAN FRANCISCO, CA 94124
Project Contact: TIM HALEN
Phone #: 415-512-1555
Samplers Name: A. MORA

Project Information

Project Name:
Street: 1110 JACKSON ST.
City / State: OAKLAND CA
Project #: GGTR 9669
EMAIL: TIM@GGTR.COM
Client Purchase Order #

Requested Analysis

TPH-GC + HVOCs (Full List) 8260B
TPH-D (Diesel, Motor Oil) 8015M
PCBs

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPH-GC + HVOCs (Full List) 8260B	TPH-D (Diesel, Motor Oil) 8015M	PCBs	LAB USE ONLY
1	9669-T1-TC			A.M	AQ	5	3				2				X	X	X	
2	9669-T2-TC			A.M	LIQ	5	3				2				X	X	X	
3	9669-T3-TC			A.M	AQ	5	3				2				X	X	X	

1 DAY

Turnaround Time (Business days)

Approved By:/ Date:

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day 24 HRS TAT
- [x] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	(ARC) MORA	4-7-16 4:52	1 (DOD)	2	4/11/16 12:00	2 Ali Zeighami AZ
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal # NONE	Appropriate Bottle / Pres. Y / N	Headspace Y / N

Labels match Coc? Y / N | Separate Receiving Check List used: Y / N | On Ice (Y) N | Cooler Temp. 3.1/3.3 °C

C45324: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: C45324 **Client:** GGTR **Project:** 1110 JACKSON ST

Date / Time Received: 4/11/2016 12:00:00 PM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.1/3.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C45324: Chain of Custody
Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-MB	U34193.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-MB	U34193.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	TPH-GRO (C6-C10)	ND	50	25	ug/l	

Method Blank Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-MB	U34193.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	80-123%
2037-26-5	Toluene-D8	104%	88-112%
460-00-4	4-Bromofluorobenzene	92%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-BS	U34188.D	1	04/12/16	JC	n/a	n/a	VU1405
VU1405-BSD	U34189.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	73.5	92	74.4	93	1	55-147/17
71-43-2	Benzene	20	18.4	92	18.4	92	0	76-120/10
108-86-1	Bromobenzene	20	17.1	86	17.4	87	2	80-123/10
74-97-5	Bromochloromethane	20	19.6	98	19.1	96	3	79-124/10
75-27-4	Bromodichloromethane	20	18.3	92	18.2	91	1	75-121/10
75-25-2	Bromoform	20	18.8	94	19.1	96	2	62-127/10
104-51-8	n-Butylbenzene	20	16.2	81	17.0	85	5	74-129/10
135-98-8	sec-Butylbenzene	20	15.9	80	16.5	83	4	75-128/11
98-06-6	tert-Butylbenzene	20	15.8	79	16.2	81	2	74-127/11
108-90-7	Chlorobenzene	20	18.4	92	18.8	94	2	79-119/10
75-00-3	Chloroethane	20	17.8	89	16.9	85	5	60-115/14
67-66-3	Chloroform	20	18.6	93	18.4	92	1	75-122/10
95-49-8	o-Chlorotoluene	20	19.6	98	20.1	101	3	76-125/12
106-43-4	p-Chlorotoluene	20	18.9	95	19.3	97	2	76-126/11
56-23-5	Carbon tetrachloride	20	18.2	91	18.8	94	3	72-128/13
75-34-3	1,1-Dichloroethane	20	18.3	92	18.2	91	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	15.8	79	15.9	80	1	62-125/13
563-58-6	1,1-Dichloropropene	20	17.2	86	17.8	89	3	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	20	15.3	77	15.8	79	3	64-129/11
106-93-4	1,2-Dibromoethane	20	19.0	95	19.2	96	1	81-124/10
107-06-2	1,2-Dichloroethane	20	19.2	96	19.0	95	1	74-122/10
78-87-5	1,2-Dichloropropane	20	19.0	95	18.9	95	1	75-123/10
142-28-9	1,3-Dichloropropane	20	19.5	98	19.7	99	1	81-127/11
108-20-3	Di-Isopropyl ether	20	18.1	91	17.8	89	2	69-126/10
594-20-7	2,2-Dichloropropane	20	16.6	83	16.8	84	1	66-130/12
124-48-1	Dibromochloromethane	20	18.4	92	18.7	94	2	76-124/10
75-71-8	Dichlorodifluoromethane	20	15.7	79	14.3	72	9	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.3	97	19.0	95	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	19.0	95	19.0	95	0	76-131/10
541-73-1	m-Dichlorobenzene	20	17.0	85	17.1	86	1	79-121/10
95-50-1	o-Dichlorobenzene	20	17.0	85	17.3	87	2	79-120/10
106-46-7	p-Dichlorobenzene	20	17.2	86	17.3	87	1	79-120/10
156-60-5	trans-1,2-Dichloroethylene	20	16.1	81	16.1	81	0	67-116/11
10061-02-6	trans-1,3-Dichloropropene	20	18.2	91	18.5	93	2	73-125/10
100-41-4	Ethylbenzene	20	18.2	91	18.8	94	3	78-123/10
637-92-3	Ethyl Tert Butyl Ether	20	18.3	92	18.0	90	2	75-126/11

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-BS	U34188.D	1	04/12/16	JC	n/a	n/a	VU1405
VU1405-BSD	U34189.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	82.9	104	85.2	107	3	71-145/12
87-68-3	Hexachlorobutadiene	20	15.9	80	16.9	85	6	70-130/12
98-82-8	Isopropylbenzene	20	17.8	89	18.4	92	3	77-125/10
99-87-6	p-Isopropyltoluene	20	15.9	80	16.5	83	4	76-126/10
108-10-1	4-Methyl-2-pentanone	80	82.4	103	82.4	103	0	70-142/11
74-83-9	Methyl bromide	20	17.6	88	17.0	85	3	65-124/13
74-87-3	Methyl chloride	20	21.4	107	20.3	102	5	47-143/20
74-95-3	Methylene bromide	20	20.2	101	20.3	102	0	80-125/10
75-09-2	Methylene chloride	20	18.2	91	17.9	90	2	65-124/15
78-93-3	Methyl ethyl ketone	80	78.8	99	77.8	97	1	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	17.2	86	17.0	85	1	73-120/10
91-20-3	Naphthalene	20	17.0	85	18.5	93	8	66-120/12
103-65-1	n-Propylbenzene	20	16.0	80	16.7	84	4	75-125/10
100-42-5	Styrene	20	18.1	91	18.3	92	1	73-126/10
994-05-8	Tert-Amyl Methyl Ether	20	18.6	93	18.3	92	2	77-126/10
75-65-0	Tert-Butyl Alcohol	100	88.8	89	90.2	90	2	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	20	18.8	94	19.1	96	2	79-126/10
71-55-6	1,1,1-Trichloroethane	20	17.9	90	18.1	91	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.1	91	18.4	92	2	78-127/10
79-00-5	1,1,2-Trichloroethane	20	20.0	100	20.1	101	0	79-122/10
87-61-6	1,2,3-Trichlorobenzene	20	17.5	88	18.7	94	7	70-128/12
96-18-4	1,2,3-Trichloropropane	20	17.0	85	17.2	86	1	66-127/10
120-82-1	1,2,4-Trichlorobenzene	20	17.0	85	17.7	89	4	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	16.2	81	16.6	83	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	16.2	81	16.7	84	3	79-130/10
127-18-4	Tetrachloroethylene	20	17.9	90	18.9	95	5	72-124/13
108-88-3	Toluene	20	17.9	90	18.4	92	3	78-121/10
79-01-6	Trichloroethylene	20	18.2	91	18.7	94	3	75-119/10
75-69-4	Trichlorofluoromethane	20	19.0	95	18.0	90	5	68-130/19
75-01-4	Vinyl chloride	20	20.6	103	20.0	100	3	57-137/18
1330-20-7	Xylene (total)	60	53.9	90	55.5	93	3	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	101%	80-123%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-BS	U34188.D	1	04/12/16	JC	n/a	n/a	VU1405
VU1405-BSD	U34189.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	101%	102%	88-112%
460-00-4	4-Bromofluorobenzene	100%	101%	79-114%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1405-LCS	U34190.D	1	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	117	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	80-123%
2037-26-5	Toluene-D8	105%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45324-2MS	U34211.D	100	04/12/16	JC	n/a	n/a	VU1405
C45324-2MSD	U34212.D	100	04/12/16	JC	n/a	n/a	VU1405
C45324-2 [a]	U34199.D	100	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	C45324-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		8000	13600	170* [b]	8000	9950	124	31* [c]	55-147/17
71-43-2	Benzene	354		2000	2500	107	2000	2730	119	9	76-120/10
108-86-1	Bromobenzene	ND		2000	1860	93	2000	1960	98	5	80-123/10
74-97-5	Bromochloromethane	ND		2000	2140	107	2000	2400	120	11* [c]	79-124/10
75-27-4	Bromodichloromethane	ND		2000	2050	103	2000	2230	112	8	75-121/10
75-25-2	Bromoform	ND		2000	2050	103	2000	2220	111	8	62-127/10
104-51-8	n-Butylbenzene	ND		2000	1930	97	2000	2030	102	5	74-129/10
135-98-8	sec-Butylbenzene	41.0	J	2000	1840	90	2000	1950	95	6	75-128/11
98-06-6	tert-Butylbenzene	ND		2000	1960	98	2000	2080	104	6	74-127/11
108-90-7	Chlorobenzene	ND		2000	2020	101	2000	2190	110	8	79-119/10
75-00-3	Chloroethane	ND		2000	1860	93	2000	2240	112	19* [c]	60-115/14
67-66-3	Chloroform	ND		2000	2090	105	2000	2320	116	10	75-122/10
95-49-8	o-Chlorotoluene	ND		2000	1540	77	2000	1640	82	6	76-125/12
106-43-4	p-Chlorotoluene	ND		2000	2040	102	2000	2160	108	6	76-126/11
56-23-5	Carbon tetrachloride	ND		2000	2150	108	2000	2340	117	8	72-128/13
75-34-3	1,1-Dichloroethane	ND		2000	2020	101	2000	2280	114	12* [c]	70-121/10
75-35-4	1,1-Dichloroethylene	ND		2000	1740	87	2000	1990	100	13	62-125/13
563-58-6	1,1-Dichloropropene	ND		2000	1980	99	2000	2180	109	10	68-116/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		2000	1790	90	2000	1910	96	6	64-129/11
106-93-4	1,2-Dibromoethane	ND		2000	2050	103	2000	2240	112	9	81-124/10
107-06-2	1,2-Dichloroethane	ND		2000	2150	108	2000	2340	117	8	74-122/10
78-87-5	1,2-Dichloropropane	ND		2000	2130	107	2000	2340	117	9	75-123/10
142-28-9	1,3-Dichloropropane	ND		2000	2100	105	2000	2300	115	9	81-127/11
108-20-3	Di-Isopropyl ether	ND		2000	1950	98	2000	2230	112	13* [c]	69-126/10
594-20-7	2,2-Dichloropropane	ND		2000	1760	88	2000	1990	100	12	66-130/12
124-48-1	Dibromochloromethane	ND		2000	2020	101	2000	2190	110	8	76-124/10
75-71-8	Dichlorodifluoromethane	ND		2000	1750	88	2000	1960	98	11	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		2000	2100	105	2000	2370	119	12* [c]	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		2000	2090	105	2000	2310	116	10	76-131/10
541-73-1	m-Dichlorobenzene	ND		2000	1820	91	2000	1920	96	5	79-121/10
95-50-1	o-Dichlorobenzene	ND		2000	1870	94	2000	1970	99	5	79-120/10
106-46-7	p-Dichlorobenzene	ND		2000	1870	94	2000	1970	99	5	79-120/10
156-60-5	trans-1,2-Dichloroethylene	ND		2000	1770	89	2000	1980	99	11	67-116/11
10061-02-6	trans-1,3-Dichloropropene	ND		2000	1940	97	2000	2090	105	7	73-125/10
100-41-4	Ethylbenzene	212		2000	2300	104	2000	2480	113	8	78-123/10
637-92-3	Ethyl Tert Butyl Ether	ND		2000	1950	98	2000	2240	112	14* [c]	75-126/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45324-2MS	U34211.D	100	04/12/16	JC	n/a	n/a	VU1405
C45324-2MSD	U34212.D	100	04/12/16	JC	n/a	n/a	VU1405
C45324-2 [a]	U34199.D	100	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Compound	C45324-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		8000	9600	120	8000	10600	133	10	71-145/12
87-68-3	Hexachlorobutadiene	ND		2000	1720	86	2000	1830	92	6	70-130/12
98-82-8	Isopropylbenzene	73.3	J	2000	2100	101	2000	2260	109	7	77-125/10
99-87-6	p-Isopropyltoluene	64.8	J	2000	1850	89	2000	1950	94	5	76-126/10
108-10-1	4-Methyl-2-pentanone	ND		8000	9470	118	8000	10500	131	10	70-142/11
74-83-9	Methyl bromide	ND		2000	1860	93	2000	2210	111	17* [c]	65-124/13
74-87-3	Methyl chloride	ND		2000	2370	119	2000	2650	133	11	47-143/20
74-95-3	Methylene bromide	ND		2000	2290	115	2000	2480	124	8	80-125/10
75-09-2	Methylene chloride	ND		2000	1990	100	2000	2230	112	11	65-124/15
78-93-3	Methyl ethyl ketone	ND		8000	8490	106	8000	9820	123	15* [c]	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND		2000	1830	92	2000	2100	105	14* [c]	73-120/10
91-20-3	Naphthalene	454	J	2000	2520	103	2000	2880	121* [b]	13* [c]	66-120/12
103-65-1	n-Propylbenzene	105	J	2000	1900	90	2000	2020	96	6	75-125/10
100-42-5	Styrene	ND		2000	2130	107	2000	2280	114	7	73-126/10
994-05-8	Tert-Amyl Methyl Ether	ND		2000	2010	101	2000	2280	114	13* [c]	77-126/10
75-65-0	Tert-Butyl Alcohol	ND		10000	9940	99	10000	11800	118	17	52-148/18
630-20-6	1,1,1,2-Tetrachloroethane	ND		2000	2030	102	2000	2190	110	8	79-126/10
71-55-6	1,1,1-Trichloroethane	ND		2000	2030	102	2000	2300	115	12* [c]	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	1940	97	2000	2050	103	6	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		2000	2300	115	2000	2400	120	4	79-122/10
87-61-6	1,2,3-Trichlorobenzene	ND		2000	1930	97	2000	2140	107	10	70-128/12
96-18-4	1,2,3-Trichloropropane	ND		2000	1930	97	2000	2050	103	6	66-127/10
120-82-1	1,2,4-Trichlorobenzene	ND		2000	1890	95	2000	2030	102	7	72-125/11
95-63-6	1,2,4-Trimethylbenzene	948		2000	3050	105	2000	3220	114	5	76-124/10
108-67-8	1,3,5-Trimethylbenzene	281		2000	2200	96	2000	2330	102	6	79-130/10
127-18-4	Tetrachloroethylene	43.9	J	2000	2040	100	2000	2240	110	9	72-124/13
108-88-3	Toluene	876		2000	3000	106	2000	3240	118	8	78-121/10
79-01-6	Trichloroethylene	ND		2000	2090	105	2000	2310	116	10	75-119/10
75-69-4	Trichlorofluoromethane	ND		2000	2080	104	2000	2440	122	16	68-130/19
75-01-4	Vinyl chloride	ND		2000	2260	113	2000	2670	134	17	57-137/18
1330-20-7	Xylene (total)	4410		6000	11700	122	6000	12500	135* [b]	7	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C45324-2	Limits
1868-53-7	Dibromofluoromethane	106%	109%	104%	80-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45324-2MS	U34211.D	100	04/12/16	JC	n/a	n/a	VU1405
C45324-2MSD	U34212.D	100	04/12/16	JC	n/a	n/a	VU1405
C45324-2 [a]	U34199.D	100	04/12/16	JC	n/a	n/a	VU1405

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45324-1, C45324-2, C45324-3

CAS No.	Surrogate Recoveries	MS	MSD	C45324-2	Limits
2037-26-5	Toluene-D8	100%	99%	102%	88-112%
460-00-4	4-Bromofluorobenzene	103%	104%	101%	79-114%

(a) Dilution required due to nature of sample matrix.
(b) Outside control limits due to potential matrix interference. AZ:M1
(c) Outside control limits due to potential matrix interference. AZ:R9

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14181-MB	OO384222A.D	1	04/11/16	MT	04/11/16	OP14181	GOO1606

The QC reported here applies to the following samples: **Method:** SW846 8082

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.050	0.0058	ug/l	
11104-28-2	Aroclor 1221	ND	0.050	0.021	ug/l	
11141-16-5	Aroclor 1232	ND	0.050	0.0056	ug/l	
53469-21-9	Aroclor 1242	ND	0.050	0.011	ug/l	
12672-29-6	Aroclor 1248	ND	0.050	0.014	ug/l	
11097-69-1	Aroclor 1254	ND	0.050	0.0045	ug/l	
11096-82-5	Aroclor 1260	ND	0.050	0.0043	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	78%	10-134%
877-09-8	Tetrachloro-m-xylene	52%	10-134%
2051-24-3	Decachlorobiphenyl	102%	10-139%
2051-24-3	Decachlorobiphenyl	89%	10-139%

Method Blank Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14182-MB	HH331537.D	1	04/12/16	YN	04/11/16	OP14182	GHH1787

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.10	0.050	mg/l	
	TPH (Motor Oil)	ND	0.20	0.10	mg/l	
	TPH (Mineral Spirits)	ND	0.10	0.050	mg/l	
	TPH (Kerosene)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	106%	40-134%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14181-BS	OO384223A.D	1	04/11/16	MT	04/11/16	OP14181	GOO1606
OP14181-BSD	OO384224A.D	1	04/11/16	MT	04/11/16	OP14181	GOO1606

The QC reported here applies to the following samples: **Method:** SW846 8082

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	0.4	0.32	80	0.33	83	3	44-128/24
11096-82-5	Aroclor 1260	0.4	0.33	83	0.34	85	3	34-117/27

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	79%	79%	10-134%
877-09-8	Tetrachloro-m-xylene	50%	52%	10-134%
2051-24-3	Decachlorobiphenyl	103%	99%	10-139%
2051-24-3	Decachlorobiphenyl	82%	81%	10-139%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14182-BS	HH331538.D	1	04/12/16	YN	04/11/16	OP14182	GHH1787
OP14182-BSD	HH331539.D	1	04/12/16	YN	04/11/16	OP14182	GHH1787

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45324-1, C45324-2, C45324-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	1	0.993	99	0.983	98	1	50-109/17
	TPH (Motor Oil)	1	1.16	116	1.16	116	0	56-120/15

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	112%	110%	40-134%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14182-MS	HH331540.D	1	04/12/16	YN	04/11/16	OP14182	GHH1787
C45314-1	HH331541.D	1	04/12/16	YN	04/11/16	OP14182	GHH1787

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45324-1, C45324-2, C45324-3

CAS No.	Compound	C45314-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Limits
	TPH (Diesel)	0.11 U		1.11	1.07	96	50-109
	TPH (Motor Oil)	0.22 U		1.11	1.35	122* [a]	56-120

CAS No.	Surrogate Recoveries	MS	C45314-1	Limits
630-01-3	Hexacosane	110%	104%	40-134%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: C45324
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14182-DUP	HH331746.D	1	04/15/16	FL	04/11/16	OP14182	GHH1791
C45321-8	HH331745.D	1	04/15/16	FL	04/11/16	OP14182	GHH1791

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45324-1, C45324-2, C45324-3

CAS No.	Compound	C45321-8 mg/l	Q	DUP mg/l	Q	RPD	Limits
	TPH (Diesel)	0.496		0.529		6	17
	TPH (Motor Oil)	0.434		0.474		9	15

CAS No.	Surrogate Recoveries	DUP	C45321-8	Limits
630-01-3	Hexacosane	119%	115%	40-134%

* = Outside of Control Limits.

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Automated Report

Technical Report for

Golden Gate Tank Removal

1110 Jackson Street - Oakland, CA

9669

SGS Accutest Job Number: C45413

Sampling Date: 04/15/16



Report to:

Golden Gate Tank Removal, Inc.
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Total number of pages in report: **78**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

Golden Gate Tank Removal

Job No: C45413

1110 Jackson Street - Oakland, CA
Project No: 9669

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45413-1	04/15/16	15:35	BAW	04/18/16	SO	Soil	9669-T1-C-9
C45413-2	04/15/16	16:20	BAW	04/18/16	SO	Soil	9669-T2-C-9
C45413-3	04/15/16	16:10	BAW	04/18/16	SO	Soil	9669-T3-C-8
C45413-4	04/15/16	16:40	BAW	04/18/16	SO	Soil	9669-SP1-DISCRETE
C45413-5	04/15/16	16:35	BAW	04/18/16	SO	Soil	9669-SP2-DISCRETE
C45413-6	04/15/16	16:45	BAW	04/18/16	SO	Soil	9669-SP3-DISCRETE
C45413-11	04/15/16	16:30	BAW	04/18/16	SO	Soil	9669-DRUM-COMP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C45413
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/15/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45413-1	**9669-T1-C-9**					
n-Butylbenzene		479 J	4600	460	ug/kg	SW846 8260B
n-Propylbenzene		532 J	4600	460	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		394000	92000	46000	ug/kg	SW846 8260B
1-Methylnaphthalene [a]		220	66	11	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene [a]		356	66	8.0	ug/kg	SW846 8270C BY SIM
Naphthalene [a]		33.5 J	66	9.9	ug/kg	SW846 8270C BY SIM
TPH (Diesel) [b]		3.24 J	3.3	1.7	mg/kg	SW846 8015B M
TPH (Motor Oil) [b]		6.90	6.6	3.3	mg/kg	SW846 8015B M
TPH (Kerosene) [b]		25.2	3.3	1.7	mg/kg	SW846 8015B M
Chromium		67.3	0.93		mg/kg	SW846 6010B
Lead		3.9	1.9		mg/kg	SW846 6010B
Nickel		40.1	0.93		mg/kg	SW846 6010B
Zinc		34.9	1.9		mg/kg	SW846 6010B
C45413-2	**9669-T2-C-9**					
TPH-GRO (C6-C10)		491000	180000	92000	ug/kg	SW846 8260B
1-Methylnaphthalene [a]		132	66	11	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene [a]		238	66	8.0	ug/kg	SW846 8270C BY SIM
Naphthalene [a]		220	66	10	ug/kg	SW846 8270C BY SIM
TPH (Diesel)		19.0	3.3	1.7	mg/kg	SW846 8015B M
TPH (Motor Oil)		4.04 J	6.6	3.3	mg/kg	SW846 8015B M
Chromium		58.1	0.83		mg/kg	SW846 6010B
Lead		7.9	1.7		mg/kg	SW846 6010B
Nickel		35.4	0.83		mg/kg	SW846 6010B
Zinc		52.6	1.7		mg/kg	SW846 6010B
C45413-3	**9669-T3-C-8**					
n-Butylbenzene		4030 J	22000	2200	ug/kg	SW846 8260B
Ethylbenzene		2500 J	22000	2200	ug/kg	SW846 8260B
p-Isopropyltoluene		2870 J	22000	2200	ug/kg	SW846 8260B
Naphthalene		4590 J	22000	4500	ug/kg	SW846 8260B
n-Propylbenzene		3540 J	22000	2200	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		6170 J	22000	4500	ug/kg	SW846 8260B
Xylene (total)		9280 J	45000	4500	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		2480000	450000	220000	ug/kg	SW846 8260B
Acenaphthene [a]		24.2 J	66	9.0	ug/kg	SW846 8270C BY SIM
Fluorene [a]		72.8	66	9.9	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene [a]		2280	66	11	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene [a]		4130	66	8.0	ug/kg	SW846 8270C BY SIM
Naphthalene [a]		1960	66	10	ug/kg	SW846 8270C BY SIM
Phenanthrene [a]		34.6 J	66	7.3	ug/kg	SW846 8270C BY SIM

Summary of Hits

Job Number: C45413
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/15/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH (Kerosene) [c]		580	66	33	mg/kg	SW846 8015B M
Chromium		62.5	0.88		mg/kg	SW846 6010B
Lead		3.7	1.8		mg/kg	SW846 6010B
Nickel		40.0	0.88		mg/kg	SW846 6010B
Zinc		30.5	1.8		mg/kg	SW846 6010B
C45413-4	**9669-SP1-DISCRETE**					
TPH (Diesel)		2.81 J	3.3	1.7	mg/kg	SW846 8015B M
TPH (Motor Oil)		6.61	6.6	3.3	mg/kg	SW846 8015B M
C45413-5	**9669-SP2-DISCRETE**					
n-Butylbenzene		3360 J	22000	2200	ug/kg	SW846 8260B
sec-Butylbenzene		2270 J	22000	2200	ug/kg	SW846 8260B
n-Propylbenzene		2640 J	22000	2200	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		3290000	450000	220000	ug/kg	SW846 8260B
TPH (Kerosene) [d]		217	33	17	mg/kg	SW846 8015B M
C45413-6	**9669-SP3-DISCRETE**					
TPH (Diesel)		7.14	3.3	1.7	mg/kg	SW846 8015B M
TPH (Motor Oil)		19.0	6.6	3.3	mg/kg	SW846 8015B M
C45413-11	**9669-DRUM-COMP**					
n-Butylbenzene		538 J	4100	410	ug/kg	SW846 8260B
Ethylbenzene		677 J	4100	410	ug/kg	SW846 8260B
p-Isopropyltoluene		422 J	4100	410	ug/kg	SW846 8260B
n-Propylbenzene		695 J	4100	410	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		1590 J	4100	820	ug/kg	SW846 8260B
Toluene		1340 J	4100	410	ug/kg	SW846 8260B
Xylene (total)		3890 J	8200	820	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		497000	82000	41000	ug/kg	SW846 8260B
TPH (Diesel)		3.47	3.3	1.7	mg/kg	SW846 8015B M
TPH (Motor Oil)		10.6	6.6	3.3	mg/kg	SW846 8015B M
TPH (Kerosene) [d]		62.3	3.3	1.7	mg/kg	SW846 8015B M
Chromium		54.1	0.99		mg/kg	SW846 6010B
Lead		7.6	2.0		mg/kg	SW846 6010B
Nickel		31.8	0.99		mg/kg	SW846 6010B
Zinc		176	2.0		mg/kg	SW846 6010B

(a) Dilution required due to matrix interference (Oily extract).
(b) Pattern appears to be Jet-Fuel related but does not match with calibrations standard, quantitated as best match.

Summary of Hits

Job Number: C45413
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/15/16

Lab Sample ID	Client Sample ID	Result/				
Analyte		Qual	RL	MDL	Units	Method

(c) Pattern appears to be Jet-Fuel related but does not match with calibration standard, quantitated as best match.
(d) Pattern appears to be Jet-A related but does not perfectly match with calibration standard, quantitated as best match.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	9669-T1-C-9		
Lab Sample ID:	C45413-1	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60090.D	1	04/19/16	JT	n/a	n/a	VM1802
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.46 g	5.0 ml	5.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	37000	9200	ug/kg	
71-43-2	Benzene	ND	4600	460	ug/kg	
108-86-1	Bromobenzene	ND	4600	460	ug/kg	
74-97-5	Bromochloromethane	ND	4600	460	ug/kg	
75-27-4	Bromodichloromethane	ND	4600	460	ug/kg	
75-25-2	Bromoform	ND	4600	460	ug/kg	
104-51-8	n-Butylbenzene	479	4600	460	ug/kg	J
135-98-8	sec-Butylbenzene	ND	4600	460	ug/kg	
98-06-6	tert-Butylbenzene	ND	4600	460	ug/kg	
108-90-7	Chlorobenzene	ND	4600	460	ug/kg	
75-00-3	Chloroethane	ND	4600	920	ug/kg	
67-66-3	Chloroform	ND	4600	460	ug/kg	
95-49-8	o-Chlorotoluene	ND	4600	460	ug/kg	
106-43-4	p-Chlorotoluene	ND	4600	460	ug/kg	
56-23-5	Carbon tetrachloride	ND	4600	460	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4600	460	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4600	460	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4600	460	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4600	1300	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4600	460	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4600	460	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4600	460	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4600	460	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4600	460	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	4600	460	ug/kg	
124-48-1	Dibromochloromethane	ND	4600	460	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4600	920	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4600	1000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4600	460	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4600	460	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4600	460	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4600	460	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T1-C-9
Lab Sample ID: C45413-1
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/15/16
Date Received: 04/18/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4600	460	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4600	460	ug/kg	
100-41-4	Ethylbenzene	ND	4600	460	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4600	460	ug/kg	
591-78-6	2-Hexanone	ND	18000	1800	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4600	920	ug/kg	
98-82-8	Isopropylbenzene	ND	4600	460	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4600	460	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	18000	1800	ug/kg	
74-83-9	Methyl bromide	ND	4600	920	ug/kg	
74-87-3	Methyl chloride	ND	4600	920	ug/kg	
74-95-3	Methylene bromide	ND	4600	460	ug/kg	
75-09-2	Methylene chloride	ND	18000	4600	ug/kg	
78-93-3	Methyl ethyl ketone	ND	18000	1800	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4600	920	ug/kg	
91-20-3	Naphthalene	ND	4600	920	ug/kg	
103-65-1	n-Propylbenzene	532	4600	460	ug/kg	J
100-42-5	Styrene	ND	4600	460	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4600	460	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	37000	9200	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4600	460	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4600	460	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4600	460	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4600	460	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4600	460	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4600	920	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4600	460	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4600	920	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4600	920	ug/kg	
127-18-4	Tetrachloroethylene	ND	4600	550	ug/kg	
108-88-3	Toluene	ND	4600	460	ug/kg	
79-01-6	Trichloroethylene	ND	4600	460	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4600	920	ug/kg	
75-01-4	Vinyl chloride	ND	4600	920	ug/kg	
1330-20-7	Xylene (total)	ND	9200	920	ug/kg	
	TPH-GRO (C6-C10)	394000	92000	46000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-9		
Lab Sample ID:	C45413-1	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		88-113%
460-00-4	4-Bromofluorobenzene	107%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-9		
Lab Sample ID:	C45413-1	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	T22980.D	20	04/18/16	BJ	04/18/16	OP14214	ET1047
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	8.9	ug/kg	
208-96-8	Acenaphthylene	ND	66	12	ug/kg	
120-12-7	Anthracene	ND	66	9.4	ug/kg	
56-55-3	Benzo(a)anthracene	ND	66	6.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	66	5.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	66	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	66	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	66	11	ug/kg	
218-01-9	Chrysene	ND	66	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	66	14	ug/kg	
206-44-0	Fluoranthene	ND	66	11	ug/kg	
86-73-7	Fluorene	ND	66	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66	14	ug/kg	
90-12-0	1-Methylnaphthalene	220	66	11	ug/kg	
91-57-6	2-Methylnaphthalene	356	66	8.0	ug/kg	
91-20-3	Naphthalene	33.5	66	9.9	ug/kg	J
85-01-8	Phenanthrene	ND	66	7.3	ug/kg	
129-00-0	Pyrene	ND	66	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		10-177%
321-60-8	2-Fluorobiphenyl	90%		41-124%
1718-51-0	Terphenyl-d14	93%		40-149%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference (Oily extract).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-9		
Lab Sample ID:	C45413-1	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	HH331884.D	1	04/19/16	YN	04/18/16	OP14215	GHH1794
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	3.24	3.3	1.7	mg/kg	J
	TPH (Motor Oil)	6.90	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	25.2	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	107%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-Fuel related but does not match with calibrations standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-9		
Lab Sample ID:	C45413-1	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.93	0.93	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	67.3	0.93	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.9	1.9	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	40.1	0.93	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	34.9	1.9	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5794
(2) Prep QC Batch: MP11181

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T2-C-9		
Lab Sample ID:	C45413-2	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60089.D	1	04/19/16	JT	n/a	n/a	VM1802
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.45 g	5.0 ml	2.5 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	73000	18000	ug/kg	
71-43-2	Benzene	ND	9200	920	ug/kg	
108-86-1	Bromobenzene	ND	9200	920	ug/kg	
74-97-5	Bromochloromethane	ND	9200	920	ug/kg	
75-27-4	Bromodichloromethane	ND	9200	920	ug/kg	
75-25-2	Bromoform	ND	9200	920	ug/kg	
104-51-8	n-Butylbenzene	ND	9200	920	ug/kg	
135-98-8	sec-Butylbenzene	ND	9200	920	ug/kg	
98-06-6	tert-Butylbenzene	ND	9200	920	ug/kg	
108-90-7	Chlorobenzene	ND	9200	920	ug/kg	
75-00-3	Chloroethane	ND	9200	1800	ug/kg	
67-66-3	Chloroform	ND	9200	920	ug/kg	
95-49-8	o-Chlorotoluene	ND	9200	920	ug/kg	
106-43-4	p-Chlorotoluene	ND	9200	920	ug/kg	
56-23-5	Carbon tetrachloride	ND	9200	920	ug/kg	
75-34-3	1,1-Dichloroethane	ND	9200	920	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	9200	920	ug/kg	
563-58-6	1,1-Dichloropropene	ND	9200	920	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9200	2600	ug/kg	
106-93-4	1,2-Dibromoethane	ND	9200	920	ug/kg	
107-06-2	1,2-Dichloroethane	ND	9200	920	ug/kg	
78-87-5	1,2-Dichloropropane	ND	9200	920	ug/kg	
142-28-9	1,3-Dichloropropane	ND	9200	920	ug/kg	
108-20-3	Di-Isopropyl ether	ND	9200	920	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	9200	920	ug/kg	
124-48-1	Dibromochloromethane	ND	9200	920	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	9200	1800	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	9200	2000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	9200	920	ug/kg	
541-73-1	m-Dichlorobenzene	ND	9200	920	ug/kg	
95-50-1	o-Dichlorobenzene	ND	9200	920	ug/kg	
106-46-7	p-Dichlorobenzene	ND	9200	920	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-9		
Lab Sample ID:	C45413-2	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	9200	920	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	9200	920	ug/kg	
100-41-4	Ethylbenzene	ND	9200	920	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	9200	920	ug/kg	
591-78-6	2-Hexanone	ND	37000	3700	ug/kg	
87-68-3	Hexachlorobutadiene	ND	9200	1800	ug/kg	
98-82-8	Isopropylbenzene	ND	9200	920	ug/kg	
99-87-6	p-Isopropyltoluene	ND	9200	920	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	37000	3700	ug/kg	
74-83-9	Methyl bromide	ND	9200	1800	ug/kg	
74-87-3	Methyl chloride	ND	9200	1800	ug/kg	
74-95-3	Methylene bromide	ND	9200	920	ug/kg	
75-09-2	Methylene chloride	ND	37000	9200	ug/kg	
78-93-3	Methyl ethyl ketone	ND	37000	3700	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	9200	1800	ug/kg	
91-20-3	Naphthalene	ND	9200	1800	ug/kg	
103-65-1	n-Propylbenzene	ND	9200	920	ug/kg	
100-42-5	Styrene	ND	9200	920	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	9200	920	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	73000	18000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	9200	920	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	9200	920	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	9200	920	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	9200	920	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	9200	920	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	9200	1800	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	9200	920	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	9200	1800	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	9200	1800	ug/kg	
127-18-4	Tetrachloroethylene	ND	9200	1100	ug/kg	
108-88-3	Toluene	ND	9200	920	ug/kg	
79-01-6	Trichloroethylene	ND	9200	920	ug/kg	
75-69-4	Trichlorofluoromethane	ND	9200	1800	ug/kg	
75-01-4	Vinyl chloride	ND	9200	1800	ug/kg	
1330-20-7	Xylene (total)	ND	18000	1800	ug/kg	
	TPH-GRO (C6-C10)	491000	180000	92000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-9		
Lab Sample ID:	C45413-2	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		88-113%
460-00-4	4-Bromofluorobenzene	113%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-9		
Lab Sample ID:	C45413-2	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	T22981.D	20	04/18/16	BJ	04/18/16	OP14214	ET1047
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	66	9.0	ug/kg	
208-96-8	Acenaphthylene	ND	66	12	ug/kg	
120-12-7	Anthracene	ND	66	9.4	ug/kg	
56-55-3	Benzo(a)anthracene	ND	66	6.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	66	5.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	66	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	66	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	66	11	ug/kg	
218-01-9	Chrysene	ND	66	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	66	14	ug/kg	
206-44-0	Fluoranthene	ND	66	11	ug/kg	
86-73-7	Fluorene	ND	66	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66	14	ug/kg	
90-12-0	1-Methylnaphthalene	132	66	11	ug/kg	
91-57-6	2-Methylnaphthalene	238	66	8.0	ug/kg	
91-20-3	Naphthalene	220	66	10	ug/kg	
85-01-8	Phenanthrene	ND	66	7.3	ug/kg	
129-00-0	Pyrene	ND	66	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		10-177%
321-60-8	2-Fluorobiphenyl	88%		41-124%
1718-51-0	Terphenyl-d14	84%		40-149%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference (Oily extract).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-9		
Lab Sample ID:	C45413-2	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331885.D	1	04/19/16	YN	04/18/16	OP14215	GHH1794
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	19.0	3.3	1.7	mg/kg	
	TPH (Motor Oil)	4.04	6.6	3.3	mg/kg	J
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	104%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-9		
Lab Sample ID:	C45413-2	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.83	0.83	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	58.1	0.83	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	7.9	1.7	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	35.4	0.83	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	52.6	1.7	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5794
(2) Prep QC Batch: MP11181

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T3-C-8		
Lab Sample ID:	C45413-3	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60112.D	1	04/20/16	JT	n/a	n/a	VM1803
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.57 g	5.0 ml	1.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	180000	45000	ug/kg	
71-43-2	Benzene	ND	22000	2200	ug/kg	
108-86-1	Bromobenzene	ND	22000	2200	ug/kg	
74-97-5	Bromochloromethane	ND	22000	2200	ug/kg	
75-27-4	Bromodichloromethane	ND	22000	2200	ug/kg	
75-25-2	Bromoform	ND	22000	2200	ug/kg	
104-51-8	n-Butylbenzene	4030	22000	2200	ug/kg	J
135-98-8	sec-Butylbenzene	ND	22000	2200	ug/kg	
98-06-6	tert-Butylbenzene	ND	22000	2200	ug/kg	
108-90-7	Chlorobenzene	ND	22000	2200	ug/kg	
75-00-3	Chloroethane	ND	22000	4500	ug/kg	
67-66-3	Chloroform	ND	22000	2200	ug/kg	
95-49-8	o-Chlorotoluene	ND	22000	2200	ug/kg	
106-43-4	p-Chlorotoluene	ND	22000	2200	ug/kg	
56-23-5	Carbon tetrachloride	ND	22000	2200	ug/kg	
75-34-3	1,1-Dichloroethane	ND	22000	2200	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	22000	2200	ug/kg	
563-58-6	1,1-Dichloropropene	ND	22000	2200	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	22000	6300	ug/kg	
106-93-4	1,2-Dibromoethane	ND	22000	2200	ug/kg	
107-06-2	1,2-Dichloroethane	ND	22000	2200	ug/kg	
78-87-5	1,2-Dichloropropane	ND	22000	2200	ug/kg	
142-28-9	1,3-Dichloropropane	ND	22000	2200	ug/kg	
108-20-3	Di-Isopropyl ether	ND	22000	2200	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	22000	2200	ug/kg	
124-48-1	Dibromochloromethane	ND	22000	2200	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	22000	4500	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	22000	4900	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	22000	2200	ug/kg	
541-73-1	m-Dichlorobenzene	ND	22000	2200	ug/kg	
95-50-1	o-Dichlorobenzene	ND	22000	2200	ug/kg	
106-46-7	p-Dichlorobenzene	ND	22000	2200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T3-C-8
Lab Sample ID: C45413-3
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/15/16
Date Received: 04/18/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	22000	2200	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	22000	2200	ug/kg	
100-41-4	Ethylbenzene	2500	22000	2200	ug/kg	J
637-92-3	Ethyl tert-Butyl Ether	ND	22000	2200	ug/kg	
591-78-6	2-Hexanone	ND	90000	9000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	22000	4500	ug/kg	
98-82-8	Isopropylbenzene	ND	22000	2200	ug/kg	
99-87-6	p-Isopropyltoluene	2870	22000	2200	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	90000	9000	ug/kg	
74-83-9	Methyl bromide	ND	22000	4500	ug/kg	
74-87-3	Methyl chloride	ND	22000	4500	ug/kg	
74-95-3	Methylene bromide	ND	22000	2200	ug/kg	
75-09-2	Methylene chloride	ND	90000	22000	ug/kg	
78-93-3	Methyl ethyl ketone	ND	90000	9000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	22000	4500	ug/kg	
91-20-3	Naphthalene	4590	22000	4500	ug/kg	J
103-65-1	n-Propylbenzene	3540	22000	2200	ug/kg	J
100-42-5	Styrene	ND	22000	2200	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	22000	2200	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	180000	45000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	22000	2200	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	22000	2200	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	22000	2200	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	22000	2200	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	22000	2200	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	22000	4500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	22000	2200	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	22000	4500	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	6170	22000	4500	ug/kg	J
127-18-4	Tetrachloroethylene	ND	22000	2700	ug/kg	
108-88-3	Toluene	ND	22000	2200	ug/kg	
79-01-6	Trichloroethylene	ND	22000	2200	ug/kg	
75-69-4	Trichlorofluoromethane	ND	22000	4500	ug/kg	
75-01-4	Vinyl chloride	ND	22000	4500	ug/kg	
1330-20-7	Xylene (total)	9280	45000	4500	ug/kg	J
	TPH-GRO (C6-C10)	2480000	450000	220000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-8		
Lab Sample ID:	C45413-3	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		88-113%
460-00-4	4-Bromofluorobenzene	105%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-8		
Lab Sample ID:	C45413-3	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	T22982.D	20	04/18/16	BJ	04/18/16	OP14214	ET1047
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	24.2	66	9.0	ug/kg	J
208-96-8	Acenaphthylene	ND	66	12	ug/kg	
120-12-7	Anthracene	ND	66	9.4	ug/kg	
56-55-3	Benzo(a)anthracene	ND	66	6.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	66	5.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	66	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	66	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	66	11	ug/kg	
218-01-9	Chrysene	ND	66	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	66	14	ug/kg	
206-44-0	Fluoranthene	ND	66	11	ug/kg	
86-73-7	Fluorene	72.8	66	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66	14	ug/kg	
90-12-0	1-Methylnaphthalene	2280	66	11	ug/kg	
91-57-6	2-Methylnaphthalene	4130	66	8.0	ug/kg	
91-20-3	Naphthalene	1960	66	10	ug/kg	
85-01-8	Phenanthrene	34.6	66	7.3	ug/kg	J
129-00-0	Pyrene	ND	66	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	340% [c]		10-177%
321-60-8	2-Fluorobiphenyl	85%		41-124%
1718-51-0	Terphenyl-d14	85%		40-149%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference (Oily extract).
(c) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-8		
Lab Sample ID:	C45413-3	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	HH331888.D	20	04/19/16	YN	04/18/16	OP14215	GHH1794
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	66	33	mg/kg	
	TPH (Motor Oil)	ND	130	66	mg/kg	
	TPH (Mineral Spirits)	ND	66	33	mg/kg	
	TPH (Kerosene)	580	66	33	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	107%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-Fuel related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-8		
Lab Sample ID:	C45413-3	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.88	0.88	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	62.5	0.88	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.7	1.8	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	40.0	0.88	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	30.5	1.8	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5794
(2) Prep QC Batch: MP11181

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-SP1-DISCRETE		
Lab Sample ID:	C45413-4	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60093.D	1	04/19/16	JT	n/a	n/a	VM1802
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.14 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1900	490	ug/kg	
71-43-2	Benzene	ND	240	24	ug/kg	
108-86-1	Bromobenzene	ND	240	24	ug/kg	
74-97-5	Bromochloromethane	ND	240	24	ug/kg	
75-27-4	Bromodichloromethane	ND	240	24	ug/kg	
75-25-2	Bromoform	ND	240	24	ug/kg	
104-51-8	n-Butylbenzene	ND	240	24	ug/kg	
135-98-8	sec-Butylbenzene	ND	240	24	ug/kg	
98-06-6	tert-Butylbenzene	ND	240	24	ug/kg	
108-90-7	Chlorobenzene	ND	240	24	ug/kg	
75-00-3	Chloroethane	ND	240	49	ug/kg	
67-66-3	Chloroform	ND	240	24	ug/kg	
95-49-8	o-Chlorotoluene	ND	240	24	ug/kg	
106-43-4	p-Chlorotoluene	ND	240	24	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	24	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	24	ug/kg	
563-58-6	1,1-Dichloropropene	ND	240	24	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	240	68	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	24	ug/kg	
142-28-9	1,3-Dichloropropane	ND	240	24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	240	24	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	240	24	ug/kg	
124-48-1	Dibromochloromethane	ND	240	24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	240	49	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	24	ug/kg	
541-73-1	m-Dichlorobenzene	ND	240	24	ug/kg	
95-50-1	o-Dichlorobenzene	ND	240	24	ug/kg	
106-46-7	p-Dichlorobenzene	ND	240	24	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-SP1-DISCRETE
Lab Sample ID: C45413-4
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/15/16
Date Received: 04/18/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	240	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	24	ug/kg	
100-41-4	Ethylbenzene	ND	240	24	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	240	24	ug/kg	
591-78-6	2-Hexanone	ND	970	97	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	49	ug/kg	
98-82-8	Isopropylbenzene	ND	240	24	ug/kg	
99-87-6	p-Isopropyltoluene	ND	240	24	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	970	97	ug/kg	
74-83-9	Methyl bromide	ND	240	49	ug/kg	
74-87-3	Methyl chloride	ND	240	49	ug/kg	
74-95-3	Methylene bromide	ND	240	24	ug/kg	
75-09-2	Methylene chloride	ND	970	240	ug/kg	
78-93-3	Methyl ethyl ketone	ND	970	97	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	240	49	ug/kg	
91-20-3	Naphthalene	ND	240	49	ug/kg	
103-65-1	n-Propylbenzene	ND	240	24	ug/kg	
100-42-5	Styrene	ND	240	24	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	240	24	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1900	490	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	240	24	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	240	24	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	240	49	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	24	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	240	49	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	240	49	ug/kg	
127-18-4	Tetrachloroethylene	ND	240	29	ug/kg	
108-88-3	Toluene	ND	240	24	ug/kg	
79-01-6	Trichloroethylene	ND	240	24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	240	49	ug/kg	
75-01-4	Vinyl chloride	ND	240	49	ug/kg	
1330-20-7	Xylene (total)	ND	490	49	ug/kg	
	TPH-GRO (C6-C10)	ND	4900	2400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP1-DISCRETE		
Lab Sample ID:	C45413-4	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		88-113%
460-00-4	4-Bromofluorobenzene	98%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP1-DISCRETE		
Lab Sample ID:	C45413-4	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331889.D	1	04/19/16	YN	04/18/16	OP14215	GHH1794
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	2.81	3.3	1.7	mg/kg	J
	TPH (Motor Oil)	6.61	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	78%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP2-DISCRETE		
Lab Sample ID:	C45413-5	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60088.D	1	04/19/16	JT	n/a	n/a	VM1802
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.60 g	5.0 ml	1.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	180000	45000	ug/kg	
71-43-2	Benzene	ND	22000	2200	ug/kg	
108-86-1	Bromobenzene	ND	22000	2200	ug/kg	
74-97-5	Bromochloromethane	ND	22000	2200	ug/kg	
75-27-4	Bromodichloromethane	ND	22000	2200	ug/kg	
75-25-2	Bromoform	ND	22000	2200	ug/kg	
104-51-8	n-Butylbenzene	3360	22000	2200	ug/kg	J
135-98-8	sec-Butylbenzene	2270	22000	2200	ug/kg	J
98-06-6	tert-Butylbenzene	ND	22000	2200	ug/kg	
108-90-7	Chlorobenzene	ND	22000	2200	ug/kg	
75-00-3	Chloroethane	ND	22000	4500	ug/kg	
67-66-3	Chloroform	ND	22000	2200	ug/kg	
95-49-8	o-Chlorotoluene	ND	22000	2200	ug/kg	
106-43-4	p-Chlorotoluene	ND	22000	2200	ug/kg	
56-23-5	Carbon tetrachloride	ND	22000	2200	ug/kg	
75-34-3	1,1-Dichloroethane	ND	22000	2200	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	22000	2200	ug/kg	
563-58-6	1,1-Dichloropropene	ND	22000	2200	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	22000	6300	ug/kg	
106-93-4	1,2-Dibromoethane	ND	22000	2200	ug/kg	
107-06-2	1,2-Dichloroethane	ND	22000	2200	ug/kg	
78-87-5	1,2-Dichloropropane	ND	22000	2200	ug/kg	
142-28-9	1,3-Dichloropropane	ND	22000	2200	ug/kg	
108-20-3	Di-Isopropyl ether	ND	22000	2200	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	22000	2200	ug/kg	
124-48-1	Dibromochloromethane	ND	22000	2200	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	22000	4500	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	22000	4900	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	22000	2200	ug/kg	
541-73-1	m-Dichlorobenzene	ND	22000	2200	ug/kg	
95-50-1	o-Dichlorobenzene	ND	22000	2200	ug/kg	
106-46-7	p-Dichlorobenzene	ND	22000	2200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-SP2-DISCRETE
Lab Sample ID: C45413-5
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/15/16
Date Received: 04/18/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	22000	2200	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	22000	2200	ug/kg	
100-41-4	Ethylbenzene	ND	22000	2200	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	22000	2200	ug/kg	
591-78-6	2-Hexanone	ND	89000	8900	ug/kg	
87-68-3	Hexachlorobutadiene	ND	22000	4500	ug/kg	
98-82-8	Isopropylbenzene	ND	22000	2200	ug/kg	
99-87-6	p-Isopropyltoluene	ND	22000	2200	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	89000	8900	ug/kg	
74-83-9	Methyl bromide	ND	22000	4500	ug/kg	
74-87-3	Methyl chloride	ND	22000	4500	ug/kg	
74-95-3	Methylene bromide	ND	22000	2200	ug/kg	
75-09-2	Methylene chloride	ND	89000	22000	ug/kg	
78-93-3	Methyl ethyl ketone	ND	89000	8900	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	22000	4500	ug/kg	
91-20-3	Naphthalene	ND	22000	4500	ug/kg	
103-65-1	n-Propylbenzene	2640	22000	2200	ug/kg	J
100-42-5	Styrene	ND	22000	2200	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	22000	2200	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	180000	45000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	22000	2200	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	22000	2200	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	22000	2200	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	22000	2200	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	22000	2200	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	22000	4500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	22000	2200	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	22000	4500	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	22000	4500	ug/kg	
127-18-4	Tetrachloroethylene	ND	22000	2700	ug/kg	
108-88-3	Toluene	ND	22000	2200	ug/kg	
79-01-6	Trichloroethylene	ND	22000	2200	ug/kg	
75-69-4	Trichlorofluoromethane	ND	22000	4500	ug/kg	
75-01-4	Vinyl chloride	ND	22000	4500	ug/kg	
1330-20-7	Xylene (total)	ND	45000	4500	ug/kg	
	TPH-GRO (C6-C10)	3290000	450000	220000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP2-DISCRETE		
Lab Sample ID:	C45413-5	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		88-113%
460-00-4	4-Bromofluorobenzene	105%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP2-DISCRETE		
Lab Sample ID:	C45413-5	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG65827.D	10	04/19/16	FL	04/18/16	OP14215	GGG1965
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	33	17	mg/kg	
	TPH (Motor Oil)	ND	66	33	mg/kg	
	TPH (Mineral Spirits)	ND	33	17	mg/kg	
	TPH (Kerosene) [b]	217	33	17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	104%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not perfectly match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP3-DISCRETE		
Lab Sample ID:	C45413-6	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60092.D	1	04/19/16	JT	n/a	n/a	VM1802
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.17 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1900	480	ug/kg	
71-43-2	Benzene	ND	240	24	ug/kg	
108-86-1	Bromobenzene	ND	240	24	ug/kg	
74-97-5	Bromochloromethane	ND	240	24	ug/kg	
75-27-4	Bromodichloromethane	ND	240	24	ug/kg	
75-25-2	Bromoform	ND	240	24	ug/kg	
104-51-8	n-Butylbenzene	ND	240	24	ug/kg	
135-98-8	sec-Butylbenzene	ND	240	24	ug/kg	
98-06-6	tert-Butylbenzene	ND	240	24	ug/kg	
108-90-7	Chlorobenzene	ND	240	24	ug/kg	
75-00-3	Chloroethane	ND	240	48	ug/kg	
67-66-3	Chloroform	ND	240	24	ug/kg	
95-49-8	o-Chlorotoluene	ND	240	24	ug/kg	
106-43-4	p-Chlorotoluene	ND	240	24	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	24	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	24	ug/kg	
563-58-6	1,1-Dichloropropene	ND	240	24	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	240	68	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	24	ug/kg	
142-28-9	1,3-Dichloropropane	ND	240	24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	240	24	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	240	24	ug/kg	
124-48-1	Dibromochloromethane	ND	240	24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	240	48	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	24	ug/kg	
541-73-1	m-Dichlorobenzene	ND	240	24	ug/kg	
95-50-1	o-Dichlorobenzene	ND	240	24	ug/kg	
106-46-7	p-Dichlorobenzene	ND	240	24	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-SP3-DISCRETE
Lab Sample ID: C45413-6
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/15/16
Date Received: 04/18/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	240	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	24	ug/kg	
100-41-4	Ethylbenzene	ND	240	24	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	240	24	ug/kg	
591-78-6	2-Hexanone	ND	970	97	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	48	ug/kg	
98-82-8	Isopropylbenzene	ND	240	24	ug/kg	
99-87-6	p-Isopropyltoluene	ND	240	24	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	970	97	ug/kg	
74-83-9	Methyl bromide	ND	240	48	ug/kg	
74-87-3	Methyl chloride	ND	240	48	ug/kg	
74-95-3	Methylene bromide	ND	240	24	ug/kg	
75-09-2	Methylene chloride	ND	970	240	ug/kg	
78-93-3	Methyl ethyl ketone	ND	970	97	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	240	48	ug/kg	
91-20-3	Naphthalene	ND	240	48	ug/kg	
103-65-1	n-Propylbenzene	ND	240	24	ug/kg	
100-42-5	Styrene	ND	240	24	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	240	24	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1900	480	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	240	24	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	240	24	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	240	48	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	24	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	240	48	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	240	48	ug/kg	
127-18-4	Tetrachloroethylene	ND	240	29	ug/kg	
108-88-3	Toluene	ND	240	24	ug/kg	
79-01-6	Trichloroethylene	ND	240	24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	240	48	ug/kg	
75-01-4	Vinyl chloride	ND	240	48	ug/kg	
1330-20-7	Xylene (total)	ND	480	48	ug/kg	
	TPH-GRO (C6-C10)	ND	4800	2400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP3-DISCRETE		
Lab Sample ID:	C45413-6	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		88-113%
460-00-4	4-Bromofluorobenzene	100%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-SP3-DISCRETE		
Lab Sample ID:	C45413-6	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG65829.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	7.14	3.3	1.7	mg/kg	
	TPH (Motor Oil)	19.0	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	102%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-DRUM-COMP		
Lab Sample ID:	C45413-11	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60091.D	1	04/19/16	JT	n/a	n/a	VM1802
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.10 g	5.0 ml	5.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	33000	8200	ug/kg	
71-43-2	Benzene	ND	4100	410	ug/kg	
108-86-1	Bromobenzene	ND	4100	410	ug/kg	
74-97-5	Bromochloromethane	ND	4100	410	ug/kg	
75-27-4	Bromodichloromethane	ND	4100	410	ug/kg	
75-25-2	Bromoform	ND	4100	410	ug/kg	
104-51-8	n-Butylbenzene	538	4100	410	ug/kg	J
135-98-8	sec-Butylbenzene	ND	4100	410	ug/kg	
98-06-6	tert-Butylbenzene	ND	4100	410	ug/kg	
108-90-7	Chlorobenzene	ND	4100	410	ug/kg	
75-00-3	Chloroethane	ND	4100	820	ug/kg	
67-66-3	Chloroform	ND	4100	410	ug/kg	
95-49-8	o-Chlorotoluene	ND	4100	410	ug/kg	
106-43-4	p-Chlorotoluene	ND	4100	410	ug/kg	
56-23-5	Carbon tetrachloride	ND	4100	410	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4100	410	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4100	410	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4100	410	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4100	1100	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4100	410	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4100	410	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4100	410	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4100	410	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4100	410	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	4100	410	ug/kg	
124-48-1	Dibromochloromethane	ND	4100	410	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4100	820	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4100	900	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4100	410	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4100	410	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4100	410	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4100	410	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-DRUM-COMP
Lab Sample ID: C45413-11
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/15/16
Date Received: 04/18/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4100	410	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4100	410	ug/kg	
100-41-4	Ethylbenzene	677	4100	410	ug/kg	J
637-92-3	Ethyl tert-Butyl Ether	ND	4100	410	ug/kg	
591-78-6	2-Hexanone	ND	16000	1600	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4100	820	ug/kg	
98-82-8	Isopropylbenzene	ND	4100	410	ug/kg	
99-87-6	p-Isopropyltoluene	422	4100	410	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	16000	1600	ug/kg	
74-83-9	Methyl bromide	ND	4100	820	ug/kg	
74-87-3	Methyl chloride	ND	4100	820	ug/kg	
74-95-3	Methylene bromide	ND	4100	410	ug/kg	
75-09-2	Methylene chloride	ND	16000	4100	ug/kg	
78-93-3	Methyl ethyl ketone	ND	16000	1600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4100	820	ug/kg	
91-20-3	Naphthalene	ND	4100	820	ug/kg	
103-65-1	n-Propylbenzene	695	4100	410	ug/kg	J
100-42-5	Styrene	ND	4100	410	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4100	410	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	33000	8200	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4100	410	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4100	410	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4100	410	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4100	410	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4100	410	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4100	820	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4100	410	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1590	4100	820	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	4100	820	ug/kg	
127-18-4	Tetrachloroethylene	ND	4100	490	ug/kg	
108-88-3	Toluene	1340	4100	410	ug/kg	J
79-01-6	Trichloroethylene	ND	4100	410	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4100	820	ug/kg	
75-01-4	Vinyl chloride	ND	4100	820	ug/kg	
1330-20-7	Xylene (total)	3890	8200	820	ug/kg	J
	TPH-GRO (C6-C10)	497000	82000	41000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-DRUM-COMP		
Lab Sample ID:	C45413-11	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		88-113%
460-00-4	4-Bromofluorobenzene	106%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-DRUM-COMP		
Lab Sample ID:	C45413-11	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG65830.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	3.47	3.3	1.7	mg/kg	
	TPH (Motor Oil)	10.6	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene) [b]	62.3	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	102%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not perfectly match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-DRUM-COMP		
Lab Sample ID:	C45413-11	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.99	0.99	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	54.1	0.99	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	7.6	2.0	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	31.8	0.99	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	176	2.0	mg/kg	1	04/18/16	04/19/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5794
(2) Prep QC Batch: MP11181

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C45413

Client / Reporting Information

Company Name: GOLDEN Gate Tank REMOVAL, INC.
Address: 1480 CARROLL AVE.
City: SAN Francisco State: CA Zip: 94124
Project Contact: Gina Wee
Phone #: 415-512-1555
Samplers's Name: B. WHEELER

Project Information

Project Name: #9669 - 1110 JACKSON
Street: 1110 JACKSON ST.
City: OAKLAND State: CA
Project #: 9669
EMAIL: G.WEE@GGTR.COM
Client Purchase Order #: #9669

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	BT # of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPH-GAS (8260B)	VOCs-FULL LIST (8260B)	TPH-DIESEL/MOTOR OIL (8015M)	PAHs (8270 SIM)	LUFT 5 METALS (6010B)	LAB USE ONLY
1	9669-T1-C-9	4/15/16	1535	BAW	SO	1									X	X	X	X	X	
2	9669-T2-C-9	4/15/16	1620	BAW	SO	1									X	X	X	X	X	
3	9669-T3-C-8	4/15/16	1610	BAW	SO	1									X	X	X	X	X	
4	9669-SP1-DISCRETE	4/15/16	1640	BAW	SO	1									X	X	X	~~X~~ (BAW)		
5	9669-SP2-DISCRETE	4/15/16	1635	BAW	SO	2									X	X	X			
6	9669-SP3-DISCRETE	4/15/16	1645	BAW	SO	1									X	X	X			
7/8 9/10 *	9669-DRUM-COMP	4/15/16	1630	BAW	SO	4									X	X	X		X	

(11) 4:1 comp

1 DAY

Matrix Codes
WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

Approved By / Date:

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [x] 1 Day 24HR1.
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker
- [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

BT = BRASS TUBE
* COMPOSITE (4 TO 1) PRIOR TO ANALYSIS

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	4/15/16 1500	4/18/16 1300	2 [signature]	4/18/16 14:00	2 Ali Zeighami A2
3		3	4		4
5		5	Custody Seal # NONE	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N	Cooler Temp. 4.7/4.9 °C

C45413: Chain of Custody
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SGS 44 of 78 ACCUTEST C45413

SGS Accutest Sample Receipt Summary

Job Number: C45413 **Client:** GGTR **Project:** #9669-1110 JACKSON

Date / Time Received: 4/18/2016 2:00:00 PM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.7/4.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C45413: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-MB	M60079.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-MB	M60079.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-MB	M60079.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	80-136%
2037-26-5	Toluene-D8	105%	88-113%
460-00-4	4-Bromofluorobenzene	101%	79-115%

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-MB	M60110.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-MB	M60110.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-MB	M60110.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-136%
2037-26-5	Toluene-D8	104%	88-113%
460-00-4	4-Bromofluorobenzene	97%	79-115%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-BS	M60076.D	1	04/19/16	JT	n/a	n/a	VM1802
VM1802-BSD	M60077.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	190	119	165	103	14	48-156/30
71-43-2	Benzene	40	34.9	87	34.2	86	2	73-119/20
108-86-1	Bromobenzene	40	36.0	90	37.0	93	3	73-115/18
74-97-5	Bromochloromethane	40	32.8	82	32.2	81	2	76-125/19
75-27-4	Bromodichloromethane	40	32.2	81	31.8	80	1	72-115/20
75-25-2	Bromoform	40	34.9	87	34.5	86	1	74-120/21
104-51-8	n-Butylbenzene	40	36.4	91	36.6	92	1	70-116/21
135-98-8	sec-Butylbenzene	40	36.9	92	37.1	93	1	73-113/21
98-06-6	tert-Butylbenzene	40	36.5	91	36.9	92	1	72-111/20
108-90-7	Chlorobenzene	40	35.0	88	35.2	88	1	73-109/19
75-00-3	Chloroethane	40	37.0	93	33.4	84	10	67-127/21
67-66-3	Chloroform	40	32.6	82	31.7	79	3	71-121/19
95-49-8	o-Chlorotoluene	40	34.6	87	34.8	87	1	71-114/21
106-43-4	p-Chlorotoluene	40	38.5	96	39.0	98	1	65-120/26
56-23-5	Carbon tetrachloride	40	32.8	82	32.2	81	2	72-121/23
75-34-3	1,1-Dichloroethane	40	35.1	88	34.1	85	3	71-118/19
75-35-4	1,1-Dichloroethylene	40	33.6	84	33.1	83	1	69-118/22
563-58-6	1,1-Dichloropropene	40	33.5	84	32.9	82	2	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	44.6	112	42.5	106	5	63-123/26
106-93-4	1,2-Dibromoethane	40	37.6	94	37.0	93	2	73-117/18
107-06-2	1,2-Dichloroethane	40	34.0	85	32.9	82	3	71-118/20
78-87-5	1,2-Dichloropropane	40	36.3	91	35.8	90	1	73-120/19
142-28-9	1,3-Dichloropropane	40	39.5	99	39.3	98	1	75-120/18
108-20-3	Di-Isopropyl ether	40	35.3	88	34.1	85	3	68-127/19
594-20-7	2,2-Dichloropropane	40	40.7	102	39.4	99	3	66-122/25
124-48-1	Dibromochloromethane	40	34.4	86	34.1	85	1	73-116/20
75-71-8	Dichlorodifluoromethane	40	29.7	74	27.1	68	9	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	35.4	89	34.8	87	2	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	35.8	90	35.6	89	1	74-126/17
541-73-1	m-Dichlorobenzene	40	35.3	88	35.6	89	1	71-113/19
95-50-1	o-Dichlorobenzene	40	35.0	88	35.6	89	2	72-115/19
106-46-7	p-Dichlorobenzene	40	35.0	88	35.4	89	1	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	31.7	79	30.8	77	3	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	36.1	90	35.8	90	1	72-113/18
100-41-4	Ethylbenzene	40	36.0	90	36.4	91	1	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	39.7	99	38.8	97	2	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-BS	M60076.D	1	04/19/16	JT	n/a	n/a	VM1802
VM1802-BSD	M60077.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	207	129	199	124	4	40-152/26
87-68-3	Hexachlorobutadiene	40	34.1	85	34.5	86	1	72-121/26
98-82-8	Isopropylbenzene	40	35.7	89	35.8	90	0	74-112/22
99-87-6	p-Isopropyltoluene	40	36.2	91	36.7	92	1	72-114/21
108-10-1	4-Methyl-2-pentanone	160	183	114	171	107	7	50-144/28
74-83-9	Methyl bromide	40	32.6	82	29.2	73	11	73-130/20
74-87-3	Methyl chloride	40	35.3	88	32.6	82	8	57-124/31
74-95-3	Methylene bromide	40	34.8	87	33.9	85	3	76-121/20
75-09-2	Methylene chloride	40	32.4	81	31.1	78	4	72-119/19
78-93-3	Methyl ethyl ketone	160	187	117	177	111	5	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	39.2	98	38.0	95	3	68-118/22
91-20-3	Naphthalene	40	40.4	101	39.8	100	1	67-132/22
103-65-1	n-Propylbenzene	40	36.4	91	36.9	92	1	71-110/19
100-42-5	Styrene	40	35.7	89	35.9	90	1	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	41.4	104	40.0	100	3	67-126/21
75-65-0	Tert Butyl Alcohol	200	294	147	263	132	11	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	34.1	85	33.7	84	1	75-114/22
71-55-6	1,1,1-Trichloroethane	40	35.4	89	33.8	85	5	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	40.7	102	40.4	101	1	72-121/19
79-00-5	1,1,2-Trichloroethane	40	37.2	93	36.9	92	1	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	36.3	91	36.3	91	0	68-125/24
96-18-4	1,2,3-Trichloropropane	40	39.0	98	38.0	95	3	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	34.9	87	35.8	90	3	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	35.7	89	36.1	90	1	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	36.9	92	37.2	93	1	72-113/20
127-18-4	Tetrachloroethylene	40	35.8	90	35.6	89	1	68-120/20
108-88-3	Toluene	40	36.3	91	36.2	91	0	75-111/20
79-01-6	Trichloroethylene	40	33.8	85	33.0	83	2	72-120/20
75-69-4	Trichlorofluoromethane	40	32.6	82	29.3	73	11	71-136/21
75-01-4	Vinyl chloride	40	34.1	85	30.8	77	10	61-131/24
1330-20-7	Xylene (total)	120	106	88	106	88	0	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	95%	92%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-BS	M60076.D	1	04/19/16	JT	n/a	n/a	VM1802
VM1802-BSD	M60077.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	106%	105%	88-113%
460-00-4	4-Bromofluorobenzene	100%	101%	79-115%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-BS	M60106.D	1	04/20/16	JT	n/a	n/a	VM1803
VM1803-BSD	M60108.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	157	98	159	99	1	48-156/30
71-43-2	Benzene	40	33.7	84	34.5	86	2	73-119/20
108-86-1	Bromobenzene	40	35.8	90	36.4	91	2	73-115/18
74-97-5	Bromochloromethane	40	31.2	78	32.5	81	4	76-125/19
75-27-4	Bromodichloromethane	40	30.7	77	31.1	78	1	72-115/20
75-25-2	Bromoform	40	31.7	79	32.6	82	3	74-120/21
104-51-8	n-Butylbenzene	40	35.7	89	37.0	93	4	70-116/21
135-98-8	sec-Butylbenzene	40	36.5	91	37.6	94	3	73-113/21
98-06-6	tert-Butylbenzene	40	35.8	90	36.8	92	3	72-111/20
108-90-7	Chlorobenzene	40	34.1	85	34.9	87	2	73-109/19
75-00-3	Chloroethane	40	36.4	91	36.7	92	1	67-127/21
67-66-3	Chloroform	40	30.4	76	31.6	79	4	71-121/19
95-49-8	o-Chlorotoluene	40	34.6	87	33.7	84	3	71-114/21
106-43-4	p-Chlorotoluene	40	37.5	94	40.2	101	7	65-120/26
56-23-5	Carbon tetrachloride	40	30.4	76	31.3	78	3	72-121/23
75-34-3	1,1-Dichloroethane	40	32.8	82	34.5	86	5	71-118/19
75-35-4	1,1-Dichloroethylene	40	31.7	79	33.5	84	6	69-118/22
563-58-6	1,1-Dichloropropene	40	32.3	81	32.8	82	2	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	37.8	95	38.2	96	1	63-123/26
106-93-4	1,2-Dibromoethane	40	34.6	87	35.6	89	3	73-117/18
107-06-2	1,2-Dichloroethane	40	31.1	78	31.8	80	2	71-118/20
78-87-5	1,2-Dichloropropane	40	34.9	87	34.9	87	0	73-120/19
142-28-9	1,3-Dichloropropane	40	36.8	92	37.7	94	2	75-120/18
108-20-3	Di-Isopropyl ether	40	33.0	83	34.0	85	3	68-127/19
594-20-7	2,2-Dichloropropane	40	39.3	98	39.6	99	1	66-122/25
124-48-1	Dibromochloromethane	40	31.9	80	32.9	82	3	73-116/20
75-71-8	Dichlorodifluoromethane	40	29.5	74	29.3	73	1	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	33.6	84	35.0	88	4	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	34.8	87	34.5	86	1	74-126/17
541-73-1	m-Dichlorobenzene	40	34.6	87	35.5	89	3	71-113/19
95-50-1	o-Dichlorobenzene	40	34.6	87	35.2	88	2	72-115/19
106-46-7	p-Dichlorobenzene	40	34.7	87	35.8	90	3	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	30.1	75	31.3	78	4	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	33.8	85	34.4	86	2	72-113/18
100-41-4	Ethylbenzene	40	35.0	88	36.1	90	3	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	37.0	93	37.8	95	2	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-BS	M60106.D	1	04/20/16	JT	n/a	n/a	VM1803
VM1803-BSD	M60108.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	177	111	178	111	1	40-152/26
87-68-3	Hexachlorobutadiene	40	32.7	82	33.9	85	4	72-121/26
98-82-8	Isopropylbenzene	40	33.9	85	35.5	89	5	74-112/22
99-87-6	p-Isopropyltoluene	40	35.7	89	37.0	93	4	72-114/21
108-10-1	4-Methyl-2-pentanone	160	159	99	158	99	1	50-144/28
74-83-9	Methyl bromide	40	32.4	81	32.5	81	0	73-130/20
74-87-3	Methyl chloride	40	35.7	89	35.5	89	1	57-124/31
74-95-3	Methylene bromide	40	32.2	81	33.0	83	2	76-121/20
75-09-2	Methylene chloride	40	30.0	75	31.1	78	4	72-119/19
78-93-3	Methyl ethyl ketone	160	157	98	163	102	4	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	35.9	90	36.7	92	2	68-118/22
91-20-3	Naphthalene	40	36.7	92	36.9	92	1	67-132/22
103-65-1	n-Propylbenzene	40	35.9	90	36.9	92	3	71-110/19
100-42-5	Styrene	40	34.5	86	35.5	89	3	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	38.5	96	38.9	97	1	67-126/21
75-65-0	Tert Butyl Alcohol	200	227	114	229	115	1	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	32.4	81	33.8	85	4	75-114/22
71-55-6	1,1,1-Trichloroethane	40	33.1	83	34.3	86	4	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	37.7	94	38.3	96	2	72-121/19
79-00-5	1,1,2-Trichloroethane	40	35.2	88	35.9	90	2	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	34.2	86	34.8	87	2	68-125/24
96-18-4	1,2,3-Trichloropropane	40	34.4	86	36.3	91	5	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	34.2	86	34.9	87	2	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	35.0	88	35.9	90	3	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	36.4	91	37.0	93	2	72-113/20
127-18-4	Tetrachloroethylene	40	34.4	86	36.3	91	5	68-120/20
108-88-3	Toluene	40	35.1	88	36.3	91	3	75-111/20
79-01-6	Trichloroethylene	40	32.7	82	33.6	84	3	72-120/20
75-69-4	Trichlorofluoromethane	40	32.7	82	32.7	82	0	71-136/21
75-01-4	Vinyl chloride	40	33.5	84	33.4	84	0	61-131/24
1330-20-7	Xylene (total)	120	103	86	107	89	4	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	94%	95%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-BS	M60106.D	1	04/20/16	JT	n/a	n/a	VM1803
VM1803-BSD	M60108.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	105%	104%	88-113%
460-00-4	4-Bromofluorobenzene	97%	98%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1802-LCS	M60078.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	264	106	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	80-136%
2037-26-5	Toluene-D8	105%	88-113%
460-00-4	4-Bromofluorobenzene	100%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1803-LCS	M60109.D	1	04/20/16	JT	n/a	n/a	VM1803

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-3

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	275	110	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	80-136%
2037-26-5	Toluene-D8	105%	88-113%
460-00-4	4-Bromofluorobenzene	99%	79-115%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45378-1MS	M60094.D	1	04/19/16	JT	n/a	n/a	VM1802
C45378-1MSD	M60095.D	1	04/19/16	JT	n/a	n/a	VM1802
C45378-1 [a]	M60086.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	C45378-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		158	163	103	158	113	72	36* [b]	48-156/30
71-43-2	Benzene	ND		39.5	31.9	81	39.4	35.5	90	11	73-119/20
108-86-1	Bromobenzene	ND		39.5	30.1	76	39.4	31.5	80	5	73-115/18
74-97-5	Bromochloromethane	ND		39.5	29.8	75* [b]	39.4	32.0	81	7	76-125/19
75-27-4	Bromodichloromethane	ND		39.5	27.8	70* [b]	39.4	30.3	77	9	72-115/20
75-25-2	Bromoform	ND		39.5	28.3	72* [b]	39.4	29.8	76	5	74-120/21
104-51-8	n-Butylbenzene	ND		39.5	24.1	61* [b]	39.4	25.3	64* [b]	5	70-116/21
135-98-8	sec-Butylbenzene	ND		39.5	27.7	70* [b]	39.4	29.3	74	6	73-113/21
98-06-6	tert-Butylbenzene	ND		39.5	28.7	73	39.4	30.4	77	6	72-111/20
108-90-7	Chlorobenzene	ND		39.5	29.9	76	39.4	32.5	82	8	73-109/19
75-00-3	Chloroethane	ND		39.5	33.6	85	39.4	37.8	96	12	67-127/21
67-66-3	Chloroform	ND		39.5	28.9	73	39.4	32.0	81	10	71-121/19
95-49-8	o-Chlorotoluene	ND		39.5	28.0	71	39.4	29.2	74	4	71-114/21
106-43-4	p-Chlorotoluene	ND		39.5	30.1	76	39.4	31.6	80	5	65-120/26
56-23-5	Carbon tetrachloride	ND		39.5	28.7	73	39.4	33.6	85	16	72-121/23
75-34-3	1,1-Dichloroethane	ND		39.5	31.4	79	39.4	35.4	90	12	71-118/19
75-35-4	1,1-Dichloroethylene	ND		39.5	30.8	78	39.4	35.3	89	14	69-118/22
563-58-6	1,1-Dichloropropene	ND		39.5	30.0	76	39.4	34.2	87	13	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		39.5	34.8	88	39.4	30.6	78	13	63-123/26
106-93-4	1,2-Dibromoethane	ND		39.5	31.7	80	39.4	33.3	84	5	73-117/18
107-06-2	1,2-Dichloroethane	ND		39.5	29.3	74	39.4	31.3	79	7	71-118/20
78-87-5	1,2-Dichloropropane	ND		39.5	32.2	81	39.4	34.7	88	7	73-120/19
142-28-9	1,3-Dichloropropane	ND		39.5	33.7	85	39.4	35.3	89	5	75-120/18
108-20-3	Di-Isopropyl ether	ND		39.5	30.9	78	39.4	33.7	85	9	68-127/19
594-20-7	2,2-Dichloropropane	ND		39.5	36.5	92	39.4	41.7	106	13	66-122/25
124-48-1	Dibromochloromethane	ND		39.5	28.2	71* [b]	39.4	30.5	77	8	73-116/20
75-71-8	Dichlorodifluoromethane	ND		39.5	27.9	71	39.4	30.5	77	9	56-118/26
156-59-2	cis-1,2-Dichloroethylene	ND		39.5	31.8	80	39.4	35.7	90	12	73-128/19
10061-01-5	cis-1,3-Dichloropropene	ND		39.5	30.3	77	39.4	31.7	80	5	74-126/17
541-73-1	m-Dichlorobenzene	ND		39.5	26.2	66* [b]	39.4	27.5	70* [b]	5	71-113/19
95-50-1	o-Dichlorobenzene	ND		39.5	26.5	67* [b]	39.4	27.4	69* [b]	3	72-115/19
106-46-7	p-Dichlorobenzene	ND		39.5	26.1	66* [b]	39.4	27.7	70* [b]	6	72-113/18
156-60-5	trans-1,2-Dichloroethylene	ND		39.5	29.1	74	39.4	32.8	83	12	67-112/20
10061-02-6	trans-1,3-Dichloropropene	ND		39.5	28.5	72	39.4	30.6	78	7	72-113/18
100-41-4	Ethylbenzene	ND		39.5	30.7	78	39.4	34.1	86	10	75-112/21
637-92-3	Ethyl tert-Butyl Ether	ND		39.5	34.9	88	39.4	37.9	96	8	67-124/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45378-1MS	M60094.D	1	04/19/16	JT	n/a	n/a	VM1802
C45378-1MSD	M60095.D	1	04/19/16	JT	n/a	n/a	VM1802
C45378-1 [a]	M60086.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	C45378-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		158	174	110	158	166	105	5	40-152/26
87-68-3	Hexachlorobutadiene	ND		39.5	16.9	43* [b]	39.4	16.5	42* [b]	2	72-121/26
98-82-8	Isopropylbenzene	ND		39.5	28.9	73* [b]	39.4	32.3	82	11	74-112/22
99-87-6	p-Isopropyltoluene	ND		39.5	26.4	67* [b]	39.4	27.8	70* [b]	5	72-114/21
108-10-1	4-Methyl-2-pentanone	ND		158	159	101	158	147	93	8	50-144/28
74-83-9	Methyl bromide	ND		39.5	29.1	74	39.4	32.1	81	10	73-130/20
74-87-3	Methyl chloride	ND		39.5	34.2	87	39.4	38.3	97	11	57-124/31
74-95-3	Methylene bromide	ND		39.5	30.3	77	39.4	31.7	80	5	76-121/20
75-09-2	Methylene chloride	ND		39.5	29.5	75	39.4	32.6	83	10	72-119/19
78-93-3	Methyl ethyl ketone	ND		158	146	92	158	120	76	20	52-145/27
1634-04-4	Methyl Tert Butyl Ether	ND		39.5	34.6	88	39.4	34.6	88	0	68-118/22
91-20-3	Naphthalene	ND		39.5	27.5	70	39.4	23.6	60* [b]	15	67-132/22
103-65-1	n-Propylbenzene	ND		39.5	28.8	73	39.4	30.5	77	6	71-110/19
100-42-5	Styrene	0.82	J	39.5	30.7	76	39.4	33.8	84	10	73-112/19
994-05-8	Tert-Amyl Methyl Ether	ND		39.5	36.1	91	39.4	37.2	94	3	67-126/21
75-65-0	Tert Butyl Alcohol	ND		198	232	117	197	127	64	58* [b]	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		39.5	28.6	72* [b]	39.4	31.4	80	9	75-114/22
71-55-6	1,1,1-Trichloroethane	ND		39.5	31.4	79	39.4	35.1	89	11	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	ND		39.5	28.5	72	39.4	27.7	70* [b]	3	72-121/19
79-00-5	1,1,2-Trichloroethane	ND		39.5	32.2	81	39.4	33.8	86	5	70-120/18
87-61-6	1,2,3-Trichlorobenzene	ND		39.5	18.6	47* [b]	39.4	16.0	41* [b]	15	68-125/24
96-18-4	1,2,3-Trichloropropane	ND		39.5	33.5	85	39.4	33.5	85	0	75-119/19
120-82-1	1,2,4-Trichlorobenzene	ND		39.5	18.2	46* [b]	39.4	16.3	41* [b]	11	70-123/23
95-63-6	1,2,4-Trimethylbenzene	ND		39.5	28.3	72	39.4	29.4	75	4	71-112/19
108-67-8	1,3,5-Trimethylbenzene	ND		39.5	28.9	73	39.4	30.5	77	5	72-113/20
127-18-4	Tetrachloroethylene	ND		39.5	49.1	124* [b]	39.4	54.3	138* [b]	10	68-120/20
108-88-3	Toluene	ND		39.5	31.6	80	39.4	35.4	90	11	75-111/20
79-01-6	Trichloroethylene	ND		39.5	34.7	88	39.4	39.0	99	12	72-120/20
75-69-4	Trichlorofluoromethane	ND		39.5	29.7	75	39.4	34.0	86	14	71-136/21
75-01-4	Vinyl chloride	ND		39.5	30.7	78	39.4	40.2	102	27* [b]	61-131/24
1330-20-7	Xylene (total)	ND		119	89.4	75	118	98.9	84	10	73-110/20

CAS No.	Surrogate Recoveries	MS	MSD	C45378-1	Limits
1868-53-7	Dibromofluoromethane	95%	95%		80-136%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45378-1MS	M60094.D	1	04/19/16	JT	n/a	n/a	VM1802
C45378-1MSD	M60095.D	1	04/19/16	JT	n/a	n/a	VM1802
C45378-1 [a]	M60086.D	1	04/19/16	JT	n/a	n/a	VM1802

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45413-1, C45413-2, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Surrogate Recoveries	MS	MSD	C45378-1	Limits
2037-26-5	Toluene-D8	103%	106%		88-113%
460-00-4	4-Bromofluorobenzene	99%	101%		79-115%

(a) Sample used for QC purposes only.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14214-MB	T22979.D	1	04/18/16	BJ	04/18/16	OP14214	ET1047

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45413-1, C45413-2, C45413-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3.3	0.40	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	97%	10-177%
321-60-8	2-Fluorobiphenyl	94%	41-124%
1718-51-0	Terphenyl-d14	103%	40-149%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14214-BS	T22977.D	1	04/18/16	BJ	04/18/16	OP14214	ET1047
OP14214-BSD	T22978.D	1	04/18/16	BJ	04/18/16	OP14214	ET1047

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45413-1, C45413-2, C45413-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	167	162	97	161	97	1	53-111/14
208-96-8	Acenaphthylene	167	165	99	163	98	1	53-113/13
120-12-7	Anthracene	167	160	96	151	91	6	57-113/14
56-55-3	Benzo(a)anthracene	167	177	106	164	98	8	60-126/10
50-32-8	Benzo(a)pyrene	167	145	87	144	86	1	51-111/11
205-99-2	Benzo(b)fluoranthene	167	176	106	169	101	4	53-136/19
191-24-2	Benzo(g,h,i)perylene	167	163	98	170	102	4	57-129/17
207-08-9	Benzo(k)fluoranthene	167	166	100	159	95	4	60-126/16
218-01-9	Chrysene	167	173	104	167	100	4	64-119/10
53-70-3	Dibenzo(a,h)anthracene	167	173	104	179	107	3	54-128/19
206-44-0	Fluoranthene	167	169	101	167	100	1	62-124/13
86-73-7	Fluorene	167	167	100	161	97	4	56-118/15
193-39-5	Indeno(1,2,3-cd)pyrene	167	176	106	184	110	4	47-135/19
90-12-0	1-Methylnaphthalene	167	157	94	154	92	2	52-107/17
91-57-6	2-Methylnaphthalene	167	164	98	157	94	4	52-110/15
91-20-3	Naphthalene	167	158	95	150	90	5	49-103/14
85-01-8	Phenanthrene	167	169	101	160	96	5	57-114/10
129-00-0	Pyrene	167	173	104	155	93	11	55-124/15

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	98%	97%	10-177%
321-60-8	2-Fluorobiphenyl	95%	95%	41-124%
1718-51-0	Terphenyl-d14	102%	89%	40-149%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14214-MS [a]	T22983.D	20	04/18/16	BJ	04/18/16	OP14214	ET1047
OP14214-MSD [a]	T22984.D	20	04/18/16	BJ	04/18/16	OP14214	ET1047
C45413-1 [a]	T22980.D	20	04/18/16	BJ	04/18/16	OP14214	ET1047

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45413-1, C45413-2, C45413-3

CAS No.	Compound	C45413-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		163	158	97	163	143	88	10	53-111/14
208-96-8	Acenaphthylene	ND		163	157	96	163	143	88	9	53-113/13
120-12-7	Anthracene	ND		163	139	85	163	138	85	1	57-113/14
56-55-3	Benzo(a)anthracene	ND		163	156	96	163	147	90	6	60-126/10
50-32-8	Benzo(a)pyrene	ND		163	100	61	163	91.9	57	8	51-111/11
205-99-2	Benzo(b)fluoranthene	ND		163	95.7	59	163	94.4	58	1	53-136/19
191-24-2	Benzo(g,h,i)perylene	ND		163	112	69	163	99.5	61	12	57-129/17
207-08-9	Benzo(k)fluoranthene	ND		163	153	94	163	148	91	3	60-126/16
218-01-9	Chrysene	ND		163	165	101	163	165	102	0	64-119/10
53-70-3	Dibenzo(a,h)anthracene	ND		163	73.5	45* [b]	163	69.4	43* [b]	6	54-128/19
206-44-0	Fluoranthene	ND		163	145	89	163	145	89	0	62-124/13
86-73-7	Fluorene	ND		163	158	97	163	150	92	5	56-118/15
193-39-5	Indeno(1,2,3-cd)pyrene	ND		163	66.4	41* [b]	163	66.6	41* [b]	0	47-135/19
90-12-0	1-Methylnaphthalene	220		163	481	160* [b]	163	363	88	28* [b]	52-107/17
91-57-6	2-Methylnaphthalene	356		163	718	222* [c]	163	513	97	33* [b]	52-110/15
91-20-3	Naphthalene	33.5	J	163	209	108* [b]	163	175	87	18* [b]	49-103/14
85-01-8	Phenanthrene	ND		163	162	99	163	159	98	2	57-114/10
129-00-0	Pyrene	ND		163	187	115	163	165	102	13	55-124/15

CAS No.	Surrogate Recoveries	MS	MSD	C45413-1	Limits
4165-60-0	Nitrobenzene-d5	85%	84%	86%	10-177%
321-60-8	2-Fluorobiphenyl	84%	88%	90%	41-124%
1718-51-0	Terphenyl-d14	90%	92%	93%	40-149%

(a) Dilution required due to matrix interference (Oily extract).
(b) Outside control limits due to matrix interference and dilution.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14215-MB	HH331871.D	1	04/19/16	YN	04/18/16	OP14215	GHH1794

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45413-1, C45413-2, C45413-3, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.7	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	113%	38-146%

Method Blank Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14215-MB	GG65825.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45413-1, C45413-2, C45413-3, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.7	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	104%	38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14215-BS	GG65833.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965
OP14215-BSD	GG65834.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45413-1, C45413-2, C45413-3, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	33.3	33.3	100	33.2	100	0	53-107/12
	TPH (Motor Oil)	33.3	36.2	109	34.3	103	5	59-119/13

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	100%	94%	38-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45413
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14215-MS	GG65846.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965
OP14215-MSD	GG65847.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965
C45412-1	GG65843.D	1	04/19/16	FL	04/18/16	OP14215	GGG1965

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45413-1, C45413-2, C45413-3, C45413-4, C45413-5, C45413-6, C45413-11

CAS No.	Compound	C45412-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	1.84	J	33.1	38.1	110* [a]	33.1	38.3	110* [a]	1	53-107/12
	TPH (Motor Oil)	ND		33.1	47.5	144* [a]	33.1	43.6	132* [a]	9	59-119/13

CAS No.	Surrogate Recoveries	MS	MSD	C45412-1	Limits
630-01-3	Hexacosane	104%	104%	99%	38-146%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C45413
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11181
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/18/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.4	1.5		
Antimony	2.0	.12	.18		
Arsenic	2.0	.16	.17		
Barium	20	.02	.09		
Beryllium	1.0	.02	.01		
Boron	10	.18	.15		
Cadmium	1.0	.02	.031	0.030	<1.0
Calcium	500	2.8	4.5		
Chromium	1.0	.04	.054	0.010	<1.0
Cobalt	1.0	.03	.025		
Copper	2.5	.12	.15		
Iron	20	.53	.76		
Lead	2.0	.1	.14	0.0	<2.0
Magnesium	500	1.6	2.1		
Manganese	1.5	.02	.026		
Molybdenum	2.0	.05	.04		
Nickel	1.0	.04	.047	-0.090	<1.0
Potassium	1000	3.5	4.6		
Selenium	2.0	.17	.33		
Silicon	20	.24	.43		
Silver	1.0	.05	.067		
Sodium	1000	1.1	1.2		
Strontium	1.0	.01	.018		
Thallium	2.0	.17	.12		
Tin	50	.08	.28		
Titanium	1.0	.08	.13		
Vanadium	1.0	.06	.074		
Zinc	2.0	.05	.22	-0.010	<2.0

Associated samples MP11181: C45413-1, C45413-2, C45413-3, C45413-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45413
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11181
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/18/16

Metal	C45414-1 Original	MS	Spikelot MPIR5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium					
Beryllium					
Boron					
Cadmium	0.28	40.8	41	98.9	75-125
Calcium					
Chromium	36.6	78.3	41	101.7	75-125
Cobalt					
Copper					
Iron					
Lead	31.4	73.7	41	103.2	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	39.5	84.0	41	108.6	75-125
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	41.2	81.8	41	99.1	75-125

Associated samples MP11181: C45413-1, C45413-2, C45413-3, C45413-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45413
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11181
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/18/16

Metal	C45414-1 Original	MSD	Spikelot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Boron						
Cadmium	0.28	44.0	44.2	98.8	7.5	20
Calcium						
Chromium	36.6	78.1	44.2	93.8	0.3	20
Cobalt						
Copper						
Iron						
Lead	31.4	79.2	44.2	108.0	7.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel	39.5	82.8	44.2	97.9	1.4	20
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	41.2	83.6	44.2	95.8	2.2	20

Associated samples MP11181: C45413-1, C45413-2, C45413-3, C45413-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C45413
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11181
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/18/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium	52.3	50	104.6	80-120
Calcium				
Chromium	52.8	50	105.6	80-120
Cobalt				
Copper				
Iron				
Lead	49.6	50	99.2	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	49.6	50	99.2	80-120
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	54.7	50	109.4	80-120

Associated samples MP11181: C45413-1, C45413-2, C45413-3, C45413-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C45413
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11181
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/16

Metal	C45414-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium	3.30	3.50	6.1	0-10
Calcium				
Chromium	425	462	8.9	0-10
Cobalt				
Copper				
Iron				
Lead	364	393	8.0	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	458	471	2.9	0-10
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	478	521	9.0	0-10

Associated samples MP11181: C45413-1, C45413-2, C45413-3, C45413-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

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Automated Report

Technical Report for

Golden Gate Tank Removal

1110 Jackson Street - Oakland, CA

9669

SGS Accutest Job Number: C45413W

Sampling Date: 04/15/16



Report to:

Golden Gate Tank Removal, Inc.
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Total number of pages in report: **15**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

Golden Gate Tank Removal

Job No: C45413W

1110 Jackson Street - Oakland, CA
Project No: 9669

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45413-11W	04/15/16	16:30	BAW	04/18/16	SO	Soil	9669-DRUM-COMP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C45413W
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/15/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45413-11W	**9669-DRUM-COMP**					
Chromium		0.34	0.25		mg/l	SW846 6010B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	9669-DRUM-COMP		
Lab Sample ID:	C45413-11W	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
		Percent Solids:	n/a
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis, STLC Leachate CA WET

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	0.34		0.25	mg/l	1	04/28/16	04/28/16	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5818
(2) Prep QC Batch: MP11227

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest NC Job #: C C45413

Client / Reporting Information

Company Name: GOLDEN Gate Tank REMOVAL, INC.	Project Name: #9669 - 1110 JACKSON
Address: 1480 CARROLL AVE.	Street: 1110 JACKSON ST.
City: SAN Francisco State: CA Zip: 94124	City: OAKLAND State: CA
Project Contact: Gina Wee	Project #: 9669
Phone #: 415-512-1555	EMAIL: G.WEE@GGTR.COM
Samplers's Name: B. WHEELER	Client Purchase Order #: #9669

Project Information

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	BT # of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPH-GAS (8260B)	VOCs-FULL LIST (8260B)	TPH-DIESEL/MOTOR OIL (8015M)	PAHs (8270 SIM)	LUFT 5 METALS (6010B)	LAB USE ONLY
1	9669-T1-C-9	4/15/16	1535	BAW	SO	1									X	X	X	X	X	
2	9669-T2-C-9	4/15/16	1620	BAW	SO	1									X	X	X	X	X	
3	9669-T3-C-8	4/15/16	1610	BAW	SO	1									X	X	X	X	X	
4	9669-SP1-DISCRETE	4/15/16	1640	BAW	SO	1									X	X	X	~~X~~ (BAW)		
5	9669-SP2-DISCRETE	4/15/16	1635	BAW	SO	2									X	X	X			
6	9669-SP3-DISCRETE	4/15/16	1645	BAW	SO	1									X	X	X			
7/8 9/10 *	9669-DRUM-COMP	4/15/16	1630	BAW	SO	4									X	X	X		X	

(11) 4:1 comp

1 DAY

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [x] 1 Day 24HR1
- [ ] Same Day

Approved By / Date:

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

BT = BRASS TUBE
* COMPOSITE (4 TO 1) PRIOR TO ANALYSIS

Emergency T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	4/15/16 1500	4/18/16 1300	2 [signature]	4/18/16 14:00	2 Ali Zeighami A2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # NONE	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N	Cooler Temp. 4.7/4.9 °C

4.1 4

C45413W: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: C45413 **Client:** GGTR **Project:** #9669-1110 JACKSON

Date / Time Received: 4/18/2016 2:00:00 PM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.7/4.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C45413W: Chain of Custody
Page 2 of 3

Job Change Order: C45413

Requested Date:	4/25/2016	**Received Date:**	4/18/2016
Account Name:	Golden Gate Tank Removal	**Due Date:**	4/19/2016
Project Description:	1110 Jackson Street - Oakland, CA	**Deliverable:**	COMMB
CSR:	maureenc	**TAT (Days):**	3

==========

Sample #: C45413-11T
Dept:

Change:
client wants to run TCLPE, ECR

==========

==========

Sample #: C45413-11W
Dept:

Change:
client wants to run STLCE, ECR

==========

C45413W: Chain of Custody
Page 3 of 3

Above Changes Per: Brent Wheeler **Date/Time:** 4/25/2016 9:29:52 AM

To Client:This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C45413W
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11227
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:					04/28/16		04/28/16
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	0.20	.014	.027				
Antimony	0.0060	.0012	.0012				
Arsenic	0.010	.0016	.0025				
Barium	0.20	.0002	.0005				
Beryllium	0.0050	.0002	.0006				
Boron	0.10	.0018	.0032				
Cadmium	0.0020	.0002	.0003				
Calcium	5.0	.028	.069				
Chromium	0.010	.0004	.0006	0.0	<0.010	-0.0050	<0.25
Cobalt	0.0050	.0003	.0004				
Copper	0.010	.0012	.0018				
Iron	0.20	.0053	.011				
Lead	0.010	.001	.0017				
Magnesium	5.0	.016	.023				
Manganese	0.015	.0002	.0002				
Molybdenum	0.020	.0005	.0006				
Nickel	0.0050	.0004	.0006				
Potassium	10	.035	.035				
Selenium	0.010	.0017	.0033				
Silicon	0.10	.0024	.0024				
Silver	0.0050	.0005	.0015				
Sodium	10	.011	.025				
Strontium	0.010	.0001	.0002				
Thallium	0.010	.0017	.0048				
Tin	0.050	.0008	.0013				
Titanium	0.010	.0008	.0008				
Vanadium	0.010	.0006	.0006				
Zinc	0.020	.0005	.0031				

Associated samples MP11227: C45413-11W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45413W
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11227
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 04/28/16 04/28/16

Metal	C45517-5W Original	DUP	RPD	QC Limits	C45517-5W Original	MS	Spikelot MPIR5	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	0.27	0.28	3.6	0-20	0.27	12.7	12.5	99.4	75-125
Cobalt	anr								
Copper	anr								
Iron									
Lead	anr								
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP11227: C45413-11W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C45413W
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11227
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 04/28/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	13.1	12.5	104.8	80-120
Cobalt	anr			
Copper	anr			
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11227: C45413-11W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C45413W
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11227
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/28/16

Metal	C45517-5W Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	10.9	10.5	3.7	0-10
Cobalt	anr			
Copper	anr			
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP11227: C45413-11W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

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e-Hardcopy 2.0
Automated Report

Technical Report for

Golden Gate Tank Removal

1110 Jackson Street - Oakland, CA

9669

SGS Accutest Job Number: C45413T

Sampling Date: 04/15/16



Report to:

Golden Gate Tank Removal, Inc.
1455 Yosemite Ave.
San Francisco, CA 94124
gina.wee@ggtr.com; tim@ggtr.com;
b.wheeler@ggtr.com; amm@ggtr.com
ATTN: Tim Hallen

Total number of pages in report: **15**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Section 2: Summary of Hits **4**
Section 3: Sample Results **5**
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Section 4: Misc. Forms **7**
4.1: Chain of Custody 8
Section 5: Metals Analysis - QC Data Summaries **11**
5.1: Prep QC MP11225: Cr 12

Sample Summary

Golden Gate Tank Removal

Job No: C45413T

1110 Jackson Street - Oakland, CA
Project No: 9669

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C45413-11T	04/15/16	16:30	BAW	04/18/16	SO	Soil	9669-DRUM-COMP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C45413T
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/15/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45413-11T	**9669-DRUM-COMP**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	9669-DRUM-COMP		
Lab Sample ID:	C45413-11T	**Date Sampled:**	04/15/16
Matrix:	SO - Soil	**Date Received:**	04/18/16
		Percent Solids:	n/a
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 0.050	D007	5.0	0.050	mg/l	1	04/27/16	04/28/16	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5818
(2) Prep QC Batch: MP11225

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest NC Job #: C C45413

Client / Reporting Information

Company Name: GOLDEN Gate Tank REMOVAL, INC.	Project Name: #9669 - 1110 JACKSON
Address: 1480 CARROLL AVE.	Street: 1110 JACKSON ST.
City: SAN Francisco State: CA Zip: 94124	City: OAKLAND State: CA
Project Contact: Gina Wee	Project #: 9669
Phone #: 415-512-1555	EMAIL: G.WEE@GGTR.COM
Samplers's Name: B. WHEELER	Client Purchase Order #: #9669

Project Information

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	BT # of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPH-GAS (8260B)	VOCs-FULL LIST (8260B)	TPH-DIESEL/MOTOR OIL (8015M)	PAHs (8270 SIM)	LUFT 5 METALS (6010B)	LAB USE ONLY
1	9669-T1-C-9	4/15/16	1535	BAW	SO	1									X	X	X	X	X	
2	9669-T2-C-9	4/15/16	1620	BAW	SO	1									X	X	X	X	X	
3	9669-T3-C-8	4/15/16	1610	BAW	SO	1									X	X	X	X	X	
4	9669-SP1-DISCRETE	4/15/16	1640	BAW	SO	1									X	X	X	~~X~~ (BAW)		
5	9669-SP2-DISCRETE	4/15/16	1635	BAW	SO	2									X	X	X			
6	9669-SP3-DISCRETE	4/15/16	1645	BAW	SO	1									X	X	X			
7/8 9/10 *	9669-DRUM-COMP	4/15/16	1630	BAW	SO	4									X	X	X		X	

(11) 4:1 comp

1 DAY

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [x] 1 Day 24HR1.
- [ ] Same Day

Approved By / Date:

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

BT = BRASS TUBE
* COMPOSITE (4 TO 1) PRIOR TO ANALYSIS

Emergency T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	4/15/16 1500	4/18/16 1300	2 [signature]	4/18/16 14:00	2 Ali Zeighami A2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # NONE	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N	Cooler Temp. 4.7/4.9 °C

4.1 4

C45413T: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: C45413 **Client:** GGTR **Project:** #9669-1110 JACKSON

Date / Time Received: 4/18/2016 2:00:00 PM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.7/4.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C45413T: Chain of Custody
Page 2 of 3

Job Change Order: C45413

Requested Date:	4/25/2016	**Received Date:**	4/18/2016
Account Name:	Golden Gate Tank Removal	**Due Date:**	4/19/2016
Project Description:	1110 Jackson Street - Oakland, CA	**Deliverable:**	COMMB
CSR:	maureenc	**TAT (Days):**	3

==========

Sample #: C45413-11T
Dept:

Change:
client wants to run TCLPE, ECR

==========

==========

Sample #: C45413-11W
Dept:

Change:
client wants to run STLCE, ECR

==========

C45413T: Chain of Custody
Page 3 of 3

Above Changes Per: Brent Wheeler **Date/Time:** 4/25/2016 9:29:52 AM

To Client:This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C45413T
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11225
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:				04/27/16		04/27/16	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	0.20	.014	.027				
Antimony	0.0060	.0012	.0012				
Arsenic	0.010	.0016	.0025				
Barium	0.20	.0002	.0005				
Beryllium	0.0050	.0002	.0006				
Boron	0.10	.0018	.0032				
Cadmium	0.0020	.0002	.0003				
Calcium	5.0	.028	.069				
Chromium	0.010	.0004	.0006	-0.00040	<0.010	-0.0020	<0.050
Cobalt	0.0050	.0003	.0004				
Copper	0.010	.0012	.0018				
Iron	0.20	.0053	.011				
Lead	0.010	.001	.0017				
Magnesium	5.0	.016	.023				
Manganese	0.015	.0002	.0002				
Molybdenum	0.020	.0005	.0006				
Nickel	0.0050	.0004	.0006				
Potassium	10	.035	.035				
Selenium	0.010	.0017	.0033				
Silicon	0.10	.0024	.0024				
Silver	0.0050	.0005	.0015				
Sodium	10	.011	.025				
Strontium	0.010	.0001	.0002				
Thallium	0.010	.0017	.0048				
Tin	0.050	.0008	.0013				
Titanium	0.010	.0008	.0008				
Vanadium	0.010	.0006	.0006				
Zinc	0.020	.0005	.0031				

Associated samples MP11225: C45413-11T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45413T
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11225
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 04/27/16 04/27/16

Metal	C45541-4T Original	DUP	RPD	QC Limits	C45541-4T Original	MS	Spikelot MPIR5	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	0.017	0.015	12.5	0-20	0.017	2.5	2.5	99.3	75-125
Cobalt									
Copper									
Iron									
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP11225: C45413-11T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C45413T
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11225
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 04/27/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	2.6	2.5	104.0	80-120
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP11225: C45413-11T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C45413T
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11225
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/27/16

Metal	C45541-4T Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	3.40	5.60	64.7 (a)	0-10
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP11225: C45413-11T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

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Automated Report

Technical Report for

Golden Gate Tank Removal

1110 Jackson Street - Oakland, CA

9669

SGS Accutest Job Number: C45495

Sampling Date: 04/22/16



Report to:

Golden Gate Tank Removal, Inc.
1455 Yosemite Ave.
San Francisco, CA 94124
gina.wee@ggtr.com; tim@ggtr.com;
b.wheeler@ggtr.com; amm@ggtr.com
ATTN: Tim Hallen

Total number of pages in report: **51**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

Golden Gate Tank Removal

Job No: C45495

1110 Jackson Street - Oakland, CA
Project No: 9669

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45495-1	04/22/16	09:50	BW	04/22/16	SO	Soil	9669-P1-4
C45495-2	04/22/16	10:00	BW	04/22/16	SO	Soil	9669-P2-3.3
C45495-3	04/22/16	10:05	BW	04/22/16	SO	Soil	9669-P3-4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C45495
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 04/22/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45495-1	**9669-P1-4**					
Methylene chloride		5.2 J	20	5.0	ug/kg	SW846 8260B
Benzo(a)anthracene		0.37 J	3.3	0.32	ug/kg	SW846 8270C BY SIM
Benzo(a)pyrene		0.31 JB	3.3	0.29	ug/kg	SW846 8270C BY SIM
Chromium		41.4	0.99		mg/kg	SW846 6010B
Lead		2.4	2.0		mg/kg	SW846 6010B
Nickel		23.2	0.99		mg/kg	SW846 6010B
Zinc		20.4	2.0		mg/kg	SW846 6010B
C45495-2	**9669-P2-3.3**					
Methylene chloride		6.5 J	20	5.0	ug/kg	SW846 8260B
Chromium		36.4	1.0		mg/kg	SW846 6010B
Lead		2.4	2.0		mg/kg	SW846 6010B
Nickel		15.7	1.0		mg/kg	SW846 6010B
Zinc		20.6	2.0		mg/kg	SW846 6010B
C45495-3	**9669-P3-4**					
Methylene chloride		6.0 J	20	5.0	ug/kg	SW846 8260B
Benzo(a)pyrene		0.38 JB	3.3	0.29	ug/kg	SW846 8270C BY SIM
Chromium		37.0	0.97		mg/kg	SW846 6010B
Lead		4.2	1.9		mg/kg	SW846 6010B
Nickel		16.6	0.97		mg/kg	SW846 6010B
Zinc		25.8	1.9		mg/kg	SW846 6010B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	9669-P1-4		
Lab Sample ID:	C45495-1	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60167.D	1	04/22/16	JT	n/a	n/a	VM1805
Run #2							

	Initial Weight
Run #1	5.01 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-P1-4
Lab Sample ID: C45495-1
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 04/22/16
Date Received: 04/22/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	5.2	20	5.0	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [b]	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P1-4		
Lab Sample ID:	C45495-1	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		88-113%
460-00-4	4-Bromofluorobenzene	100%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P1-4		
Lab Sample ID:	C45495-1	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23061.D	1	04/23/16	BJ	04/22/16	OP14233	ET1051
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	0.37	3.3	0.32	ug/kg	J
50-32-8	Benzo(a)pyrene	0.31	3.3	0.29	ug/kg	JB
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3.3	0.40	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.36	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		10-177%
321-60-8	2-Fluorobiphenyl	75%		41-124%
1718-51-0	Terphenyl-d14	98%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P1-4		
Lab Sample ID:	C45495-1	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331991.D	1	04/22/16	YN	04/22/16	OP14241	GHH1798
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P1-4		
Lab Sample ID:	C45495-1	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.99	0.99	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	41.4	0.99	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	2.4	2.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	23.2	0.99	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	20.4	2.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5809
(2) Prep QC Batch: MP11207

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-P2-3.3		
Lab Sample ID:	C45495-2	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60178.D	1	04/22/16	JT	n/a	n/a	VM1805
Run #2							

	Initial Weight
Run #1	5.03 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	9.9	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.99	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.99	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P2-3.3		
Lab Sample ID:	C45495-2	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.99	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	0.99	ug/kg	
74-87-3	Methyl chloride	ND	5.0	0.99	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	6.5	20	5.0	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [b]	ND	5.0	0.99	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.99	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	40	9.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.99	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.99	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.99	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.99	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
	TPH-GRO (C6-C10)	ND	99	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P2-3.3		
Lab Sample ID:	C45495-2	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		88-113%
460-00-4	4-Bromofluorobenzene	99%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P2-3.3		
Lab Sample ID:	C45495-2	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23062.D	1	04/23/16	BJ	04/22/16	OP14233	ET1051
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.31	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3.3	0.40	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.36	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		10-177%
321-60-8	2-Fluorobiphenyl	83%		41-124%
1718-51-0	Terphenyl-d14	102%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P2-3.3		
Lab Sample ID:	C45495-2	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331992.D	1	04/22/16	YN	04/22/16	OP14241	GHH1798
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	92%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P2-3.3		
Lab Sample ID:	C45495-2	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 1.0	1.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	36.4	1.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	2.4	2.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	15.7	1.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	20.6	2.0	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5809
(2) Prep QC Batch: MP11207

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-P3-4		
Lab Sample ID:	C45495-3	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60179.D	1	04/22/16	JT	n/a	n/a	VM1805
Run #2							

	Initial Weight
Run #1	5.02 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane [b]	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P3-4		
Lab Sample ID:	C45495-3	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	6.0	20	5.0	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [b]	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	126%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P3-4		
Lab Sample ID:	C45495-3	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		88-113%
460-00-4	4-Bromofluorobenzene	101%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P3-4		
Lab Sample ID:	C45495-3	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23063.D	1	04/23/16	BJ	04/22/16	OP14233	ET1051
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	0.38	3.3	0.29	ug/kg	JB
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3.3	0.40	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		10-177%
321-60-8	2-Fluorobiphenyl	88%		41-124%
1718-51-0	Terphenyl-d14	103%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P3-4		
Lab Sample ID:	C45495-3	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH331993.D	1	04/22/16	YN	04/22/16	OP14241	GHH1798
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.7	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	53%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-P3-4		
Lab Sample ID:	C45495-3	**Date Sampled:**	04/22/16
Matrix:	SO - Soil	**Date Received:**	04/22/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.97	0.97	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	37.0	0.97	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	4.2	1.9	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	16.6	0.97	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	25.8	1.9	mg/kg	1	04/25/16	04/25/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5809
(2) Prep QC Batch: MP11207

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest NC Job #: C C45495

Client / Reporting Information

Company Name	GOLDEN GATE TANK REMOVAL
Address	1480 CARROLL AVE
City / State / Zip	SAN FRANCISCO, CA 94124
Project Contact:	TIM HALLEN
Phone #	415-512-1555
Samplers's Name	B. WHEELER

Project Information

Project Name:	
Street	1110 JACKSON ST.
City / State	OAKLAND CA
Project #	9669
EMAIL:	TIM@GGTR.COM
Client Purchase Order #	

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	BT # of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPH-C + VOCs-FULL LIS (8260B)	TPH-DIESEL/MOTOR OIL/KEROSENE/MIN. SPIRITS	PAHS (8270 SIM)	LUFT 5 METALS (6010B)								LAB USE ONLY
1	9669-P1-4	4/22/16	950	BAW	SO	1									X	X	X	X								
2	9669-P2-3.3	↓	1000	↓	↓	1									X	X	X	X								
3	9669-P3-4	↓	1005	↓	↓	1									X	X	X	X								

1 DAY

Matrix Codes
WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [x] 1 Day
- [ ] Same Day

24-HR.

Approved By:/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

BT = BRASS TUBE

A2

B

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	4/22/16 1085	[signature]	2 [signature]	4/22/16 13:00	2 [signature]
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # NONE	Appropriate Bottle / Pres. Y / N; Headspace Y / N; On Ice Y / N; Labels match Coc? Y / N; Separate Receiving Check List used: Y / N	Cooler Temp. 2.5/2.7 oC

C45495: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: C45495 **Client:** GGTR **Project:** 1110 JACKSON STREET

Date / Time Received: 4/22/2016 1:00:00 PM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.5/2.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

C45495: Chain of Custody
Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-MB	M60164.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-MB	M60164.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-MB	M60164.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	80-136%
2037-26-5	Toluene-D8	104%	88-113%
460-00-4	4-Bromofluorobenzene	99%	79-115%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-BS	M60161.D	1	04/22/16	JT	n/a	n/a	VM1805
VM1805-BSD	M60162.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	186	116	184	115	1	48-156/30
71-43-2	Benzene	40	36.8	92	36.8	92	0	73-119/20
108-86-1	Bromobenzene	40	34.8	87	37.0	93	6	73-115/18
74-97-5	Bromochloromethane	40	35.9	90	35.0	88	3	76-125/19
75-27-4	Bromodichloromethane	40	34.7	87	34.7	87	0	72-115/20
75-25-2	Bromoform	40	34.0	85	34.6	87	2	74-120/21
104-51-8	n-Butylbenzene	40	37.5	94	37.8	95	1	70-116/21
135-98-8	sec-Butylbenzene	40	37.4	94	38.4	96	3	73-113/21
98-06-6	tert-Butylbenzene	40	36.4	91	38.1	95	5	72-111/20
108-90-7	Chlorobenzene	40	35.1	88	36.0	90	3	73-109/19
75-00-3	Chloroethane	40	43.2	108	39.9	100	8	67-127/21
67-66-3	Chloroform	40	37.0	93	35.6	89	4	71-121/19
95-49-8	o-Chlorotoluene	40	36.2	91	37.9	95	5	71-114/21
106-43-4	p-Chlorotoluene	40	36.6	92	39.1	98	7	65-120/26
56-23-5	Carbon tetrachloride	40	36.8	92	35.4	89	4	72-121/23
75-34-3	1,1-Dichloroethane	40	39.4	99	38.3	96	3	71-118/19
75-35-4	1,1-Dichloroethylene	40	36.7	92	35.3	88	4	69-118/22
563-58-6	1,1-Dichloropropene	40	36.0	90	35.7	89	1	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	42.6	107	42.7	107	0	63-123/26
106-93-4	1,2-Dibromoethane	40	35.7	89	37.3	93	4	73-117/18
107-06-2	1,2-Dichloroethane	40	37.1	93	36.3	91	2	71-118/20
78-87-5	1,2-Dichloropropane	40	38.0	95	39.0	98	3	73-120/19
142-28-9	1,3-Dichloropropane	40	38.5	96	39.9	100	4	75-120/18
108-20-3	Di-Isopropyl ether	40	39.1	98	38.3	96	2	68-127/19
594-20-7	2,2-Dichloropropane	40	50.6	127* [a]	48.3	121	5	66-122/25
124-48-1	Dibromochloromethane	40	34.6	87	35.2	88	2	73-116/20
75-71-8	Dichlorodifluoromethane	40	35.8	90	31.9	80	12	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	39.0	98	37.9	95	3	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	36.6	92	37.6	94	3	74-126/17
541-73-1	m-Dichlorobenzene	40	35.2	88	36.3	91	3	71-113/19
95-50-1	o-Dichlorobenzene	40	35.5	89	36.1	90	2	72-115/19
106-46-7	p-Dichlorobenzene	40	35.1	88	36.3	91	3	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	35.0	88	33.9	85	3	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	35.9	90	37.5	94	4	72-113/18
100-41-4	Ethylbenzene	40	37.1	93	37.6	94	1	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	44.2	111	42.9	107	3	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-BS	M60161.D	1	04/22/16	JT	n/a	n/a	VM1805
VM1805-BSD	M60162.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	187	117	200	125	7	40-152/26
87-68-3	Hexachlorobutadiene	40	32.7	82	33.0	83	1	72-121/26
98-82-8	Isopropylbenzene	40	37.6	94	37.5	94	0	74-112/22
99-87-6	p-Isopropyltoluene	40	36.4	91	38.0	95	4	72-114/21
108-10-1	4-Methyl-2-pentanone	160	181	113	186	116	3	50-144/28
74-83-9	Methyl bromide	40	37.5	94	34.7	87	8	73-130/20
74-87-3	Methyl chloride	40	43.7	109	40.9	102	7	57-124/31
74-95-3	Methylene bromide	40	36.6	92	36.0	90	2	76-121/20
75-09-2	Methylene chloride	40	38.3	96	35.7	89	7	72-119/19
78-93-3	Methyl ethyl ketone	160	178	111	183	114	3	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	43.0	108	41.6	104	3	68-118/22
91-20-3	Naphthalene	40	37.1	93	38.1	95	3	67-132/22
103-65-1	n-Propylbenzene	40	36.4	91	38.4	96	5	71-110/19
100-42-5	Styrene	40	35.5	89	37.1	93	4	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	45.4	114	44.3	111	2	67-126/21
75-65-0	Tert Butyl Alcohol	200	268	134	284	142	6	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	36.2	91	35.5	89	2	75-114/22
71-55-6	1,1,1-Trichloroethane	40	40.9	102	39.2	98	4	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	39.7	99	40.7	102	2	72-121/19
79-00-5	1,1,2-Trichloroethane	40	36.7	92	37.9	95	3	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	33.6	84	34.3	86	2	68-125/24
96-18-4	1,2,3-Trichloropropane	40	37.9	95	38.2	96	1	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	34.0	85	34.3	86	1	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	35.9	90	37.6	94	5	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	37.2	93	38.7	97	4	72-113/20
127-18-4	Tetrachloroethylene	40	36.2	91	36.1	90	0	68-120/20
108-88-3	Toluene	40	36.8	92	37.3	93	1	75-111/20
79-01-6	Trichloroethylene	40	34.7	87	34.8	87	0	72-120/20
75-69-4	Trichlorofluoromethane	40	39.2	98	36.1	90	8	71-136/21
75-01-4	Vinyl chloride	40	43.8	110	38.5	96	13	61-131/24
1330-20-7	Xylene (total)	120	109	91	110	92	1	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	107%	101%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-BS	M60161.D	1	04/22/16	JT	n/a	n/a	VM1805
VM1805-BSD	M60162.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	105%	103%	88-113%
460-00-4	4-Bromofluorobenzene	101%	100%	79-115%

(a) Outside laboratory control limits (high bias); not detected in associated samples.

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1805-LCS	M60163.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	287	115	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-136%
2037-26-5	Toluene-D8	106%	88-113%
460-00-4	4-Bromofluorobenzene	99%	79-115%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45495-1MS	M60180.D	1	04/22/16	JT	n/a	n/a	VM1805
C45495-1MSD	M60181.D	1	04/22/16	JT	n/a	n/a	VM1805
C45495-1	M60167.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	C45495-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		155	169	109	155	173	112	2	48-156/30
71-43-2	Benzene	ND		38.8	36.2	93	38.7	34.9	90	4	73-119/20
108-86-1	Bromobenzene	ND		38.8	34.0	88	38.7	33.3	86	2	73-115/18
74-97-5	Bromochloromethane	ND		38.8	33.6	87	38.7	32.6	84	3	76-125/19
75-27-4	Bromodichloromethane	ND		38.8	36.4	94	38.7	34.7	90	5	72-115/20
75-25-2	Bromoform	ND		38.8	33.3	86	38.7	32.1	83	4	74-120/21
104-51-8	n-Butylbenzene	ND		38.8	35.0	90	38.7	34.9	90	0	70-116/21
135-98-8	sec-Butylbenzene	ND		38.8	36.2	93	38.7	35.9	93	1	73-113/21
98-06-6	tert-Butylbenzene	ND		38.8	35.6	92	38.7	35.0	90	2	72-111/20
108-90-7	Chlorobenzene	ND		38.8	33.8	87	38.7	32.7	85	3	73-109/19
75-00-3	Chloroethane	ND		38.8	43.7	113	38.7	42.2	109	3	67-127/21
67-66-3	Chloroform	ND		38.8	37.4	96	38.7	36.0	93	4	71-121/19
95-49-8	o-Chlorotoluene	ND		38.8	36.0	93	38.7	36.6	95	2	71-114/21
106-43-4	p-Chlorotoluene	ND		38.8	36.9	95	38.7	34.4	89	7	65-120/26
56-23-5	Carbon tetrachloride	ND		38.8	38.0	98	38.7	36.6	95	4	72-121/23
75-34-3	1,1-Dichloroethane	ND		38.8	38.8	100	38.7	37.5	97	3	71-118/19
75-35-4	1,1-Dichloroethylene	ND		38.8	34.1	88	38.7	33.4	86	2	69-118/22
563-58-6	1,1-Dichloropropene	ND		38.8	36.1	93	38.7	35.5	92	2	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		38.8	39.4	102	38.7	39.1	101	1	63-123/26
106-93-4	1,2-Dibromoethane	ND		38.8	35.6	92	38.7	33.8	87	5	73-117/18
107-06-2	1,2-Dichloroethane	ND		38.8	40.0	103	38.7	38.1	98	5	71-118/20
78-87-5	1,2-Dichloropropane	ND		38.8	37.8	98	38.7	36.5	94	3	73-120/19
142-28-9	1,3-Dichloropropane	ND		38.8	38.8	100	38.7	37.1	96	4	75-120/18
108-20-3	Di-Isopropyl ether	ND		38.8	36.7	95	38.7	35.3	91	4	68-127/19
594-20-7	2,2-Dichloropropane	ND		38.8	49.3	127* [a]	38.7	49.2	127* [a]	0	66-122/25
124-48-1	Dibromochloromethane	ND		38.8	34.5	89	38.7	33.2	86	4	73-116/20
75-71-8	Dichlorodifluoromethane	ND		38.8	39.4	102	38.7	37.0	96	6	56-118/26
156-59-2	cis-1,2-Dichloroethylene	ND		38.8	36.6	94	38.7	35.9	93	2	73-128/19
10061-01-5	cis-1,3-Dichloropropene	ND		38.8	36.8	95	38.7	35.1	91	5	74-126/17
541-73-1	m-Dichlorobenzene	ND		38.8	32.5	84	38.7	32.0	83	2	71-113/19
95-50-1	o-Dichlorobenzene	ND		38.8	32.5	84	38.7	32.0	83	2	72-115/19
106-46-7	p-Dichlorobenzene	ND		38.8	32.4	84	38.7	32.2	83	1	72-113/18
156-60-5	trans-1,2-Dichloroethylene	ND		38.8	32.5	84	38.7	31.7	82	2	67-112/20
10061-02-6	trans-1,3-Dichloropropene	ND		38.8	36.3	94	38.7	34.2	88	6	72-113/18
100-41-4	Ethylbenzene	ND		38.8	36.3	94	38.7	35.8	93	1	75-112/21
637-92-3	Ethyl tert-Butyl Ether	ND		38.8	42.4	109	38.7	40.7	105	4	67-124/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45495-1MS	M60180.D	1	04/22/16	JT	n/a	n/a	VM1805
C45495-1MSD	M60181.D	1	04/22/16	JT	n/a	n/a	VM1805
C45495-1	M60167.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Compound	C45495-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		155	187	121	155	175	113	7	40-152/26
87-68-3	Hexachlorobutadiene	ND		38.8	29.9	77	38.7	29.3	76	2	72-121/26
98-82-8	Isopropylbenzene	ND		38.8	36.1	93	38.7	35.5	92	2	74-112/22
99-87-6	p-Isopropyltoluene	ND		38.8	34.7	90	38.7	34.6	89	0	72-114/21
108-10-1	4-Methyl-2-pentanone	ND		155	179	115	155	167	108	7	50-144/28
74-83-9	Methyl bromide	ND		38.8	38.6	100	38.7	36.4	94	6	73-130/20
74-87-3	Methyl chloride	ND		38.8	47.9	124	38.7	45.9	119	4	57-124/31
74-95-3	Methylene bromide	ND		38.8	36.2	93	38.7	34.7	90	4	76-121/20
75-09-2	Methylene chloride	5.2	J	38.8	38.0	85	38.7	36.4	81	4	72-119/19
78-93-3	Methyl ethyl ketone	ND		155	165	106	155	157	101	5	52-145/27
1634-04-4	Methyl Tert Butyl Ether	ND		38.8	40.8	105	38.7	39.5	102	3	68-118/22
91-20-3	Naphthalene	ND		38.8	31.4	81	38.7	30.6	79	3	67-132/22
103-65-1	n-Propylbenzene	ND		38.8	35.8	92	38.7	35.4	92	1	71-110/19
100-42-5	Styrene	ND		38.8	34.1	88	38.7	33.7	87	1	73-112/19
994-05-8	Tert-Amyl Methyl Ether	ND		38.8	43.0	111	38.7	41.3	107	4	67-126/21
75-65-0	Tert Butyl Alcohol	ND		194	247	127	193	264	136	7	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		38.8	34.3	88	38.7	33.3	86	3	75-114/22
71-55-6	1,1,1-Trichloroethane	ND		38.8	41.7	108	38.7	40.7	105	2	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	ND		38.8	37.2	96	38.7	36.0	93	3	72-121/19
79-00-5	1,1,2-Trichloroethane	ND		38.8	36.8	95	38.7	34.5	89	6	70-120/18
87-61-6	1,2,3-Trichlorobenzene	ND		38.8	27.3	70	38.7	27.2	70	0	68-125/24
96-18-4	1,2,3-Trichloropropane	ND		38.8	37.8	98	38.7	36.3	94	4	75-119/19
120-82-1	1,2,4-Trichlorobenzene	ND		38.8	28.0	72	38.7	26.7	69* [a]	5	70-123/23
95-63-6	1,2,4-Trimethylbenzene	ND		38.8	34.7	90	38.7	34.4	89	1	71-112/19
108-67-8	1,3,5-Trimethylbenzene	ND		38.8	35.7	92	38.7	35.2	91	1	72-113/20
127-18-4	Tetrachloroethylene	ND		38.8	37.3	96	38.7	36.3	94	3	68-120/20
108-88-3	Toluene	ND		38.8	35.4	91	38.7	34.5	89	3	75-111/20
79-01-6	Trichloroethylene	ND		38.8	33.8	87	38.7	33.2	86	2	72-120/20
75-69-4	Trichlorofluoromethane	ND		38.8	43.3	112	38.7	40.1	104	8	71-136/21
75-01-4	Vinyl chloride	ND		38.8	50.3	130	38.7	44.4	115	12	61-131/24
1330-20-7	Xylene (total)	ND		116	104	89	116	101	87	3	73-110/20

CAS No.	Surrogate Recoveries	MS	MSD	C45495-1	Limits
1868-53-7	Dibromofluoromethane	110%	108%	101%	80-136%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45495-1MS	M60180.D	1	04/22/16	JT	n/a	n/a	VM1805
C45495-1MSD	M60181.D	1	04/22/16	JT	n/a	n/a	VM1805
C45495-1	M60167.D	1	04/22/16	JT	n/a	n/a	VM1805

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45495-1, C45495-2, C45495-3

CAS No.	Surrogate Recoveries	MS	MSD	C45495-1	Limits
2037-26-5	Toluene-D8	104%	104%	105%	88-113%
460-00-4	4-Bromofluorobenzene	104%	103%	100%	79-115%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14233-MB	T23031.D	1	04/22/16	BJ	04/22/16	OP14233	ET1050

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene [a]	0.46	3.3	0.29	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3.3	0.40	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	91%	10-177%
321-60-8	2-Fluorobiphenyl	88%	41-124%
1718-51-0	Terphenyl-d14	104%	40-149%

(a) Associated sample(s) with "B" qualifiers indicate analyte is found at concentrations less than 10 times of method blank. Concentration present in blank is less than 1/2 RL; meeting method criteria.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14233-BS	T23032.D	1	04/22/16	BJ	04/22/16	OP14233	ET1050
OP14233-BSD	T23033.D	1	04/22/16	BJ	04/22/16	OP14233	ET1050

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	167	161	97	161	97	0	53-111/14
208-96-8	Acenaphthylene	167	159	95	159	95	0	53-113/13
120-12-7	Anthracene	167	173	104	152	91	13	57-113/14
56-55-3	Benzo(a)anthracene	167	186	112	184	110	1	60-126/10
50-32-8	Benzo(a)pyrene	167	140	84	146	88	4	51-111/11
205-99-2	Benzo(b)fluoranthene	167	167	100	169	101	1	53-136/19
191-24-2	Benzo(g,h,i)perylene	167	164	98	164	98	0	57-129/17
207-08-9	Benzo(k)fluoranthene	167	179	107	179	107	0	60-126/16
218-01-9	Chrysene	167	170	102	166	100	2	64-119/10
53-70-3	Dibenzo(a,h)anthracene	167	175	105	176	106	1	54-128/19
206-44-0	Fluoranthene	167	181	109	175	105	3	62-124/13
86-73-7	Fluorene	167	165	99	164	98	1	56-118/15
193-39-5	Indeno(1,2,3-cd)pyrene	167	175	105	175	105	0	47-135/19
90-12-0	1-Methylnaphthalene	167	149	89	145	87	3	52-107/17
91-57-6	2-Methylnaphthalene	167	154	92	149	89	3	52-110/15
91-20-3	Naphthalene	167	148	89	143	86	3	49-103/14
85-01-8	Phenanthrene	167	166	100	164	98	1	57-114/10
129-00-0	Pyrene	167	170	102	173	104	2	55-124/15

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	91%	92%	10-177%
321-60-8	2-Fluorobiphenyl	91%	89%	41-124%
1718-51-0	Terphenyl-d14	97%	102%	40-149%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14233-MS [a]	T23042.D	5	04/22/16	BJ	04/22/16	OP14233	ET1050
OP14233-MSD [a]	T23043.D	5	04/22/16	BJ	04/22/16	OP14233	ET1050
C45454-4 [a]	T23041.D	5	04/22/16	BJ	04/22/16	OP14233	ET1050

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45495-1, C45495-2, C45495-3

CAS No.	Compound	C45454-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	3.3	J	166	162	95	166	151	89	7	53-111/14
208-96-8	Acenaphthylene	10.3	J	166	178	101	166	164	92	8	53-113/13
120-12-7	Anthracene	8.2	J	166	173	99	166	172	99	1	57-113/14
56-55-3	Benzo(a)anthracene	78.0		166	246	101	166	240	97	2	60-126/10
50-32-8	Benzo(a)pyrene	87.0		166	221	81	166	223	82	1	51-111/11
205-99-2	Benzo(b)fluoranthene	73.9		166	230	94	166	239	99	4	53-136/19
191-24-2	Benzo(g,h,i)perylene	54.5		166	183	77	166	193	83	5	57-129/17
207-08-9	Benzo(k)fluoranthene	67.5		166	196	77	166	195	77	1	60-126/16
218-01-9	Chrysene	105		166	237	79	166	245	84	3	64-119/10
53-70-3	Dibenzo(a,h)anthracene	18.0		166	166	89	166	186	101	11	54-128/19
206-44-0	Fluoranthene	137		166	297	96	166	294	94	1	62-124/13
86-73-7	Fluorene	4.2	J	166	172	101	166	161	94	7	56-118/15
193-39-5	Indeno(1,2,3-cd)pyrene	71.7		166	242	102	166	259	113	7	47-135/19
90-12-0	1-Methylnaphthalene	3.2	J	166	142	84	166	144	85	1	52-107/17
91-57-6	2-Methylnaphthalene	2.9	J	166	148	87	166	148	87	0	52-110/15
91-20-3	Naphthalene	5.9	J	166	144	83	166	146	84	1	49-103/14
85-01-8	Phenanthrene	67.9		166	224	94	166	220	92	2	57-114/10
129-00-0	Pyrene	161		166	302	85	166	284	74	6	55-124/15

CAS No.	Surrogate Recoveries	MS	MSD	C45454-4	Limits
4165-60-0	Nitrobenzene-d5	90%	89%	98%	10-177%
321-60-8	2-Fluorobiphenyl	93%	86%	96%	41-124%
1718-51-0	Terphenyl-d14	91%	92%	102%	40-149%

(a) Dilution required due to matrix interference (Brown extract).

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14241-MB	HH332028.D	1	04/25/16	YN	04/22/16	OP14241	GHH1799

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.7	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	105%	38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14241-BS	HH331989.D	1	04/22/16	YN	04/22/16	OP14241	GHH1798
OP14241-BSD	HH331990.D	1	04/22/16	YN	04/22/16	OP14241	GHH1798

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45495-1, C45495-2, C45495-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	33.3	20.1	60	21.4	64	6	53-107/12
	TPH (Motor Oil)	33.3	21.9	66	22.9	69	4	59-119/13

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	67%	71%	38-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45495
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14241-MS	HH331994.D	1	04/23/16	YN	04/22/16	OP14241	GHH1798
OP14241-MSD	HH331995.D	1	04/23/16	YN	04/22/16	OP14241	GHH1798
C45495-2	HH331992.D	1	04/22/16	YN	04/22/16	OP14241	GHH1798

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45495-1, C45495-2, C45495-3

CAS No.	Compound	C45495-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	ND		33.2	30.5	92	33.2	30.9	93	1	53-107/12
	TPH (Motor Oil)	ND		33.2	31.8	96	33.2	31.8	96	0	59-119/13

CAS No.	Surrogate Recoveries	MS	MSD	C45495-2	Limits
630-01-3	Hexacosane	100%	101%	92%	38-146%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C45495
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11207
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/25/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.4	1.5		
Antimony	2.0	.12	.18		
Arsenic	2.0	.16	.17		
Barium	20	.02	.09		
Beryllium	1.0	.02	.01		
Boron	10	.18	.15		
Cadmium	1.0	.02	.031	0.010	<1.0
Calcium	500	2.8	4.5		
Chromium	1.0	.04	.054	0.0	<1.0
Cobalt	1.0	.03	.025		
Copper	2.5	.12	.15		
Iron	20	.53	.76		
Lead	2.0	.1	.14	0.070	<2.0
Magnesium	500	1.6	2.1		
Manganese	1.5	.02	.026		
Molybdenum	2.0	.05	.04		
Nickel	1.0	.04	.047	0.0	<1.0
Potassium	1000	3.5	4.6		
Selenium	2.0	.17	.33		
Silicon	20	.24	.43		
Silver	1.0	.05	.067		
Sodium	1000	1.1	1.2		
Strontium	1.0	.01	.018		
Thallium	2.0	.17	.12		
Tin	50	.08	.28		
Titanium	1.0	.08	.13		
Vanadium	1.0	.06	.074		
Zinc	2.0	.05	.22	0.040	<2.0

Associated samples MP11207: C45495-1, C45495-2, C45495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45495
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11207
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/25/16

Metal	C45495-1 Original	MS	Spikelot MPIR5	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	0.050	43.4	47.2	91.9	75-125
Calcium					
Chromium	41.4	88.9	47.2	100.7	75-125
Cobalt	anr				
Copper	anr				
Iron					
Lead	2.4	45.0	47.2	90.3	75-125
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	23.2	65.1	47.2	88.8	75-125
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	20.4	61.4	47.2	86.9	75-125

Associated samples MP11207: C45495-1, C45495-2, C45495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45495
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11207
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/25/16

Metal	C45495-1 Original	MSD	Spikelot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	0.050	44.4	49	90.5	2.3	20
Calcium						
Chromium	41.4	89.0	49	97.1	0.1	20
Cobalt	anr					
Copper	anr					
Iron						
Lead	2.4	46.4	49	89.8	3.1	20
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	23.2	65.0	49	85.3	0.2	20
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	20.4	61.2	49	83.2	0.3	20

Associated samples MP11207: C45495-1, C45495-2, C45495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C45495
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11207
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/25/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	47.9	50	95.8	80-120
Calcium				
Chromium	51.7	50	103.4	80-120
Cobalt	anr			
Copper	anr			
Iron				
Lead	47.0	50	94.0	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	46.7	50	93.4	80-120
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	50.2	50	100.4	80-120

Associated samples MP11207: C45495-1, C45495-2, C45495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C45495
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11207
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/25/16

Metal	C45495-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	0.500	0.00	100.0(a)	0-10
Calcium				
Chromium	418	446	6.6	0-10
Cobalt	anr			
Copper	anr			
Iron				
Lead	24.7	27.9	13.0 (a)	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	234	240	2.7	0-10
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	206	219	6.3	0-10

Associated samples MP11207: C45495-1, C45495-2, C45495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

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Automated Report

Technical Report for

Golden Gate Tank Removal

1110 Jackson Street - Oakland, CA

9669

SGS Accutest Job Number: C45685

Sampling Date: 05/04/16



Report to:

Golden Gate Tank Removal, Inc.
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ATTN: Tim Hallen

Total number of pages in report: **144**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Maureen Coloma 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

Golden Gate Tank Removal

Job No: C45685

1110 Jackson Street - Oakland, CA
Project No: 9669

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45685-1	05/04/16	11:00 AM		05/05/16	SO	Soil	9669-T1-EW-8'
C45685-2	05/04/16	11:05 AM		05/05/16	SO	Soil	9669-T1-C-12'
C45685-3	05/04/16	11:10 AM		05/05/16	SO	Soil	9669-T1-WW-8'
C45685-4	05/04/16	11:15 AM		05/05/16	SO	Soil	9669-T1-NW-8'
C45685-5	05/04/16	11:20 AM		05/05/16	SO	Soil	9669-T2-EW-6'
C45685-6	05/04/16	11:25 AM		05/05/16	SO	Soil	9669-T2-C-12.5
C45685-7	05/04/16	11:30 AM		05/05/16	SO	Soil	9669-T2-WW-8'
C45685-8	05/04/16	11:35 AM		05/05/16	SO	Soil	9669-T2-SW-8'
C45685-9	05/04/16	11:45 AM		05/05/16	SO	Soil	9669-T3-WW-8'
C45685-10	05/04/16	11:50 AM		05/05/16	SO	Soil	9669-T3-C-12'
C45685-11	05/04/16	11:55 AM		05/05/16	SO	Soil	9669-T3-SW-6.5
C45685-12	05/04/16	12:00 AM		05/05/16	SO	Soil	9669-T3-NW-8'
C45685-13	05/04/16	12:05 AM		05/05/16	SO	Soil	9669-T3-EW-9'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C45685
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 05/04/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45685-1	**9669-T1-EW-8'**					
n-Butylbenzene		318 J	3000	300	ug/kg	SW846 8260B
Ethylbenzene		624 J	3000	300	ug/kg	SW846 8260B
n-Propylbenzene		362 J	3000	300	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		758 J	3000	600	ug/kg	SW846 8260B
Toluene		805 J	3000	300	ug/kg	SW846 8260B
Xylene (total)		3050 J	6000	600	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		370000	60000	30000	ug/kg	SW846 8260B
Fluorene		0.63 J	3.3	0.49	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene		25.9	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		13.3	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		25.7	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene		0.56 J	3.3	0.36	ug/kg	SW846 8270C BY SIM
TPH (Motor Oil)		8.98	6.6	3.3	mg/kg	SW846 8015B M
TPH (Kerosene) [a]		18.6	3.3	1.7	mg/kg	SW846 8015B M
Chromium		47.9	0.91		mg/kg	SW846 6010B
Lead		3.7	1.8		mg/kg	SW846 6010B
Nickel		32.5	0.91		mg/kg	SW846 6010B
Zinc		31.1	1.8		mg/kg	SW846 6010B
C45685-2	**9669-T1-C-12'**					
sec-Butylbenzene		273 J	2700	270	ug/kg	SW846 8260B
Ethylbenzene		293 J	2700	270	ug/kg	SW846 8260B
Isopropylbenzene		350 J	2700	270	ug/kg	SW846 8260B
Naphthalene		900 J	2700	540	ug/kg	SW846 8260B
n-Propylbenzene		559 J	2700	270	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		735 J	2700	540	ug/kg	SW846 8260B
Toluene		449 J	2700	270	ug/kg	SW846 8260B
Xylene (total)		1330 J	5400	540	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		315000	54000	27000	ug/kg	SW846 8260B
Acenaphthene		0.97 J	3.3	0.45	ug/kg	SW846 8270C BY SIM
Benzo(a)anthracene		1.6 J	3.3	0.31	ug/kg	SW846 8270C BY SIM
Benzo(a)pyrene		0.69 J	3.3	0.29	ug/kg	SW846 8270C BY SIM
Benzo(b)fluoranthene		0.58 J	3.3	0.57	ug/kg	SW846 8270C BY SIM
Benzo(k)fluoranthene		0.57 J	3.3	0.53	ug/kg	SW846 8270C BY SIM
Chrysene		2.4 J	3.3	0.55	ug/kg	SW846 8270C BY SIM
Fluoranthene		0.87 J	3.3	0.54	ug/kg	SW846 8270C BY SIM
Fluorene		3.0 J	3.3	0.49	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene		342	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene [b]		701	17	2.0	ug/kg	SW846 8270C BY SIM
Naphthalene		426	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene		3.7	3.3	0.36	ug/kg	SW846 8270C BY SIM
Pyrene		2.1 J	3.3	0.86	ug/kg	SW846 8270C BY SIM

Summary of Hits

Job Number: C45685
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 05/04/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH (Motor Oil)		41.8	6.7	3.3	mg/kg	SW846 8015B M
TPH (Kerosene) [a]		62.0	3.3	1.7	mg/kg	SW846 8015B M
Chromium		69.4	0.83		mg/kg	SW846 6010B
Lead		3.9	1.7		mg/kg	SW846 6010B
Nickel		43.7	0.83		mg/kg	SW846 6010B
Zinc		34.9	1.7		mg/kg	SW846 6010B
C45685-3	**9669-T1-WW-8'**					
Benzene		643 J	2800	280	ug/kg	SW846 8260B
sec-Butylbenzene		417 J	2800	280	ug/kg	SW846 8260B
Ethylbenzene		392 J	2800	280	ug/kg	SW846 8260B
p-Isopropyltoluene		555 J	2800	280	ug/kg	SW846 8260B
Toluene		750 J	2800	280	ug/kg	SW846 8260B
Xylene (total)		1460 J	5600	560	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		471000	56000	28000	ug/kg	SW846 8260B
Acenaphthene		2.7 J	3.3	0.45	ug/kg	SW846 8270C BY SIM
Anthracene		0.77 J	3.3	0.47	ug/kg	SW846 8270C BY SIM
Chrysene		0.86 J	3.3	0.55	ug/kg	SW846 8270C BY SIM
Fluoranthene		0.91 J	3.3	0.54	ug/kg	SW846 8270C BY SIM
Fluorene		6.4	3.3	0.49	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene		125	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		38.9	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		121	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene		3.4	3.3	0.36	ug/kg	SW846 8270C BY SIM
Pyrene		1.3 J	3.3	0.86	ug/kg	SW846 8270C BY SIM
TPH (Motor Oil)		26.0	26	13	mg/kg	SW846 8015B M
TPH (Kerosene) [a]		103	13	6.6	mg/kg	SW846 8015B M
Chromium		45.7	0.88		mg/kg	SW846 6010B
Lead		3.3	1.8		mg/kg	SW846 6010B
Nickel		32.5	0.88		mg/kg	SW846 6010B
Zinc		27.2	1.8		mg/kg	SW846 6010B
C45685-4	**9669-T1-NW-8'**					
n-Butylbenzene		530 J	4700	470	ug/kg	SW846 8260B
sec-Butylbenzene		744 J	4700	470	ug/kg	SW846 8260B
n-Propylbenzene		659 J	4700	470	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		661000	94000	47000	ug/kg	SW846 8260B
Acenaphthene		5.6	3.3	0.45	ug/kg	SW846 8270C BY SIM
Anthracene		0.96 J	3.3	0.47	ug/kg	SW846 8270C BY SIM
Benzo(a)anthracene		4.4	3.3	0.31	ug/kg	SW846 8270C BY SIM
Benzo(g,h,i)perylene		0.80 J	3.3	0.65	ug/kg	SW846 8270C BY SIM
Chrysene		6.7	3.3	0.54	ug/kg	SW846 8270C BY SIM
Fluoranthene		3.6	3.3	0.54	ug/kg	SW846 8270C BY SIM

Summary of Hits

Job Number: C45685
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 05/04/16

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Fluorene	12.9	3.3	0.49	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene	154	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene	154	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene	68.0	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene	19.3	3.3	0.36	ug/kg	SW846 8270C BY SIM
Pyrene	6.9	3.3	0.85	ug/kg	SW846 8270C BY SIM
TPH (Motor Oil)	135	27	13	mg/kg	SW846 8015B M
TPH (Kerosene) [a]	56.9	13	6.6	mg/kg	SW846 8015B M
Chromium	49.3	0.93		mg/kg	SW846 6010B
Lead	3.4	1.9		mg/kg	SW846 6010B
Nickel	32.1	0.93		mg/kg	SW846 6010B
Zinc	26.5	1.9		mg/kg	SW846 6010B
C45685-5 9669-T2-EW-6'					
n-Butylbenzene	244 J	2300	230	ug/kg	SW846 8260B
Naphthalene	626 J	2300	460	ug/kg	SW846 8260B
TPH-GRO (C6-C10)	78800	46000	23000	ug/kg	SW846 8260B
1-Methylnaphthalene	15.5	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene	28.5	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene	14.2	3.3	0.50	ug/kg	SW846 8270C BY SIM
TPH (Kerosene) [a]	8.20	3.3	1.7	mg/kg	SW846 8015B M
Chromium	69.3	0.93		mg/kg	SW846 6010B
Lead	4.0	1.9		mg/kg	SW846 6010B
Nickel	42.5	0.93		mg/kg	SW846 6010B
Zinc	26.9	1.9		mg/kg	SW846 6010B
C45685-6 9669-T2-C-12.5					
n-Butylbenzene	5640 J	23000	2300	ug/kg	SW846 8260B
sec-Butylbenzene	6250 J	23000	2300	ug/kg	SW846 8260B
Isopropylbenzene	10700 J	23000	2300	ug/kg	SW846 8260B
p-Isopropyltoluene	2620 J	23000	2300	ug/kg	SW846 8260B
Naphthalene	7770 J	23000	4600	ug/kg	SW846 8260B
n-Propylbenzene	13000 J	23000	2300	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	5410 J	23000	4600	ug/kg	SW846 8260B
TPH-GRO (C6-C10)	6320000	460000	230000	ug/kg	SW846 8260B
Acenaphthene	6.2	3.3	0.45	ug/kg	SW846 8270C BY SIM
Benzo(a)anthracene	1.0 J	3.3	0.32	ug/kg	SW846 8270C BY SIM
Chrysene	1.3 J	3.3	0.55	ug/kg	SW846 8270C BY SIM
Fluoranthene	1.1 J	3.3	0.54	ug/kg	SW846 8270C BY SIM
Fluorene	19.1	3.3	0.49	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene [b]	1860	66	11	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene [b]	3560	66	8.0	ug/kg	SW846 8270C BY SIM
Naphthalene [b]	2580	66	10	ug/kg	SW846 8270C BY SIM

Summary of Hits

Job Number: C45685
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 05/04/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		7.0	3.3	0.37	ug/kg	SW846 8270C BY SIM
Pyrene		1.6 J	3.3	0.86	ug/kg	SW846 8270C BY SIM
TPH (Motor Oil)		34.4 J	66	33	mg/kg	SW846 8015B M
TPH (Kerosene) [a]		262	33	17	mg/kg	SW846 8015B M
Chromium		61.6	0.87		mg/kg	SW846 6010B
Lead		2.4	1.7		mg/kg	SW846 6010B
Nickel		47.2	0.87		mg/kg	SW846 6010B
Zinc		22.5	1.7		mg/kg	SW846 6010B
C45685-7	**9669-T2-WW-8'**					
n-Propylbenzene		261 J	2200	220	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		178000	44000	22000	ug/kg	SW846 8260B
1-Methylnaphthalene		35.7	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		64.2	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		33.3	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene		0.47 J	3.3	0.36	ug/kg	SW846 8270C BY SIM
TPH (Kerosene) [c]		4.73	3.3	1.7	mg/kg	SW846 8015B M
Chromium		46.4	0.88		mg/kg	SW846 6010B
Lead		3.2	1.8		mg/kg	SW846 6010B
Nickel		32.2	0.88		mg/kg	SW846 6010B
Zinc		26.0	1.8		mg/kg	SW846 6010B
C45685-8	**9669-T2-SW-8'**					
n-Propylbenzene		236 J	2300	230	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		144000	46000	23000	ug/kg	SW846 8260B
Fluorene		0.61 J	3.3	0.50	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene		52.4	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		95.6	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		53.8	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene		0.41 J	3.3	0.37	ug/kg	SW846 8270C BY SIM
TPH (Motor Oil)		4.19 J	6.6	3.3	mg/kg	SW846 8015B M
TPH (Kerosene) [a]		16.2	3.3	1.7	mg/kg	SW846 8015B M
Chromium		63.0	0.94		mg/kg	SW846 6010B
Lead		3.8	1.9		mg/kg	SW846 6010B
Nickel		33.9	0.94		mg/kg	SW846 6010B
Zinc		25.3	1.9		mg/kg	SW846 6010B
C45685-9	**9669-T3-WW-8'**					
2-Methylnaphthalene		0.50 J	3.3	0.40	ug/kg	SW846 8270C BY SIM
Chromium		56.7	0.90		mg/kg	SW846 6010B
Lead		3.5	1.8		mg/kg	SW846 6010B
Nickel		32.8	0.90		mg/kg	SW846 6010B

Summary of Hits

Job Number: C45685
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 05/04/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		27.7	1.8		mg/kg	SW846 6010B
C45685-10	**9669-T3-C-12'**					
sec-Butylbenzene		63.9 J	240	24	ug/kg	SW846 8260B
p-Isopropyltoluene		86.8 J	240	24	ug/kg	SW846 8260B
Naphthalene		74.3 J	240	48	ug/kg	SW846 8260B
n-Propylbenzene		36.1 J	240	24	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		106 J	240	48	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		157 J	240	48	ug/kg	SW846 8260B
Xylene (total)		62.0 J	480	48	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		67800	4800	2400	ug/kg	SW846 8260B
Acenaphthene		3.7	3.3	0.45	ug/kg	SW846 8270C BY SIM
Fluorene		12.1	3.3	0.50	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene		124	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		242	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		91.3	3.3	0.50	ug/kg	SW846 8270C BY SIM
Phenanthrene		6.5	3.3	0.37	ug/kg	SW846 8270C BY SIM
TPH (Kerosene) [d]		31.8	3.3	1.6	mg/kg	SW846 8015B M
Chromium		58.7	0.82		mg/kg	SW846 6010B
Lead		2.9	1.6		mg/kg	SW846 6010B
Nickel		40.4	0.82		mg/kg	SW846 6010B
Zinc		21.3	1.6		mg/kg	SW846 6010B
C45685-11	**9669-T3-SW-6.5**					
sec-Butylbenzene		10100 J	23000	2300	ug/kg	SW846 8260B
Isopropylbenzene		2550 J	23000	2300	ug/kg	SW846 8260B
p-Isopropyltoluene		18600 J	23000	2300	ug/kg	SW846 8260B
Naphthalene		9000 J	23000	4500	ug/kg	SW846 8260B
n-Propylbenzene		5400 J	23000	2300	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		78600	23000	4500	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		36900	23000	4500	ug/kg	SW846 8260B
Xylene (total)		6640 J	45000	4500	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		1330000	910000	450000	ug/kg	SW846 8260B
Acenaphthene [b]		24.5 J	66	8.9	ug/kg	SW846 8270C BY SIM
Fluorene [b]		96.9	66	9.9	ug/kg	SW846 8270C BY SIM
1-Methylnaphthalene [b]		1970	66	11	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene [b]		3330	66	8.0	ug/kg	SW846 8270C BY SIM
Naphthalene [b]		724	66	9.9	ug/kg	SW846 8270C BY SIM
Phenanthrene [b]		38.9 J	66	7.3	ug/kg	SW846 8270C BY SIM
TPH (Kerosene) [e]		5090	330	170	mg/kg	SW846 8015B M
Chromium		46.8	0.83		mg/kg	SW846 6010B
Lead		17.1	1.7		mg/kg	SW846 6010B
Nickel		30.0	0.83		mg/kg	SW846 6010B

Summary of Hits

Job Number: C45685
Account: Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA
Collected: 05/04/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		31.9	1.7		mg/kg	SW846 6010B
C45685-12	**9669-T3-NW-8'**					
n-Butylbenzene		24.3 J	210	21	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		61.7 J	210	43	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		6960	4300	2100	ug/kg	SW846 8260B
1-Methylnaphthalene		4.1	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		6.6	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		1.8 J	3.3	0.50	ug/kg	SW846 8270C BY SIM
Chromium		57.1	0.97		mg/kg	SW846 6010B
Lead		3.7	1.9		mg/kg	SW846 6010B
Nickel		34.9	0.97		mg/kg	SW846 6010B
Zinc		28.0	1.9		mg/kg	SW846 6010B
C45685-13	**9669-T3-EW-9'**					
1-Methylnaphthalene		0.82 J	3.3	0.56	ug/kg	SW846 8270C BY SIM
2-Methylnaphthalene		1.4 J	3.3	0.40	ug/kg	SW846 8270C BY SIM
Naphthalene		0.58 J	3.3	0.50	ug/kg	SW846 8270C BY SIM
Chromium		51.9	0.91		mg/kg	SW846 6010B
Lead		3.3	1.8		mg/kg	SW846 6010B
Nickel		33.4	0.91		mg/kg	SW846 6010B
Zinc		30.4	1.8		mg/kg	SW846 6010B

(a) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.
(b) Dilution required due to matrix interference.
(c) Jet-fuel pattern is not present.
(d) Pattern resembles Jet Fuel.
(e) Pattern resembles Kerosene.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	9669-T1-EW-8'		
Lab Sample ID:	C45685-1	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60470.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.19 g	5.0 ml	8.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	24000	6000	ug/kg	
71-43-2	Benzene	ND	3000	300	ug/kg	
108-86-1	Bromobenzene	ND	3000	300	ug/kg	
74-97-5	Bromochloromethane	ND	3000	300	ug/kg	
75-27-4	Bromodichloromethane	ND	3000	300	ug/kg	
75-25-2	Bromoform	ND	3000	300	ug/kg	
104-51-8	n-Butylbenzene	318	3000	300	ug/kg	J
135-98-8	sec-Butylbenzene	ND	3000	300	ug/kg	
98-06-6	tert-Butylbenzene	ND	3000	300	ug/kg	
108-90-7	Chlorobenzene	ND	3000	300	ug/kg	
75-00-3	Chloroethane	ND	3000	600	ug/kg	
67-66-3	Chloroform	ND	3000	300	ug/kg	
95-49-8	o-Chlorotoluene	ND	3000	300	ug/kg	
106-43-4	p-Chlorotoluene	ND	3000	300	ug/kg	
56-23-5	Carbon tetrachloride	ND	3000	300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3000	300	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3000	300	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3000	300	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3000	840	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3000	300	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3000	300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3000	300	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3000	300	ug/kg	
108-20-3	Di-Isopropyl ether	ND	3000	300	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3000	300	ug/kg	
124-48-1	Dibromochloromethane	ND	3000	300	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3000	600	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3000	660	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3000	300	ug/kg	
541-73-1	m-Dichlorobenzene	ND	3000	300	ug/kg	
95-50-1	o-Dichlorobenzene	ND	3000	300	ug/kg	
106-46-7	p-Dichlorobenzene	ND	3000	300	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T1-EW-8'
Lab Sample ID: C45685-1
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	3000	300	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3000	300	ug/kg	
100-41-4	Ethylbenzene	624	3000	300	ug/kg	J
637-92-3	Ethyl tert-Butyl Ether	ND	3000	300	ug/kg	
591-78-6	2-Hexanone	ND	12000	1200	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3000	600	ug/kg	
98-82-8	Isopropylbenzene	ND	3000	300	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3000	300	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12000	1200	ug/kg	
74-83-9	Methyl bromide	ND	3000	600	ug/kg	
74-87-3	Methyl chloride	ND	3000	600	ug/kg	
74-95-3	Methylene bromide	ND	3000	300	ug/kg	
75-09-2	Methylene chloride	ND	12000	3000	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12000	1200	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3000	600	ug/kg	
91-20-3	Naphthalene	ND	3000	600	ug/kg	
103-65-1	n-Propylbenzene	362	3000	300	ug/kg	J
100-42-5	Styrene	ND	3000	300	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	3000	300	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	24000	6000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3000	300	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3000	300	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3000	300	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3000	300	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3000	300	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3000	600	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3000	300	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	758	3000	600	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	3000	600	ug/kg	
127-18-4	Tetrachloroethylene	ND	3000	360	ug/kg	
108-88-3	Toluene	805	3000	300	ug/kg	J
79-01-6	Trichloroethylene	ND	3000	300	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3000	600	ug/kg	
75-01-4	Vinyl chloride	ND	3000	600	ug/kg	
1330-20-7	Xylene (total)	3050	6000	600	ug/kg	J
	TPH-GRO (C6-C10)	370000	60000	30000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-EW-8'		
Lab Sample ID:	C45685-1	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		88-113%
460-00-4	4-Bromofluorobenzene	101%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-EW-8'		
Lab Sample ID:	C45685-1	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23193.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.31	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	0.63	3.3	0.49	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	25.9	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	13.3	3.3	0.40	ug/kg	
91-20-3	Naphthalene	25.7	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	0.56	3.3	0.36	ug/kg	J
129-00-0	Pyrene	ND	3.3	0.85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		10-177%
321-60-8	2-Fluorobiphenyl	84%		41-124%
1718-51-0	Terphenyl-d14	80%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-EW-8'		
Lab Sample ID:	C45685-1	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3220.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	8.98	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene) [b]	18.6	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	92%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-EW-8'		
Lab Sample ID:	C45685-1	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.91	0.91	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	47.9	0.91	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.7	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	32.5	0.91	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	31.1	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T1-C-12'		
Lab Sample ID:	C45685-2	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60471.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.78 g	5.0 ml	8.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	22000	5400	ug/kg	
71-43-2	Benzene	ND	2700	270	ug/kg	
108-86-1	Bromobenzene	ND	2700	270	ug/kg	
74-97-5	Bromochloromethane	ND	2700	270	ug/kg	
75-27-4	Bromodichloromethane	ND	2700	270	ug/kg	
75-25-2	Bromoform	ND	2700	270	ug/kg	
104-51-8	n-Butylbenzene	ND	2700	270	ug/kg	
135-98-8	sec-Butylbenzene	273	2700	270	ug/kg	J
98-06-6	tert-Butylbenzene	ND	2700	270	ug/kg	
108-90-7	Chlorobenzene	ND	2700	270	ug/kg	
75-00-3	Chloroethane	ND	2700	540	ug/kg	
67-66-3	Chloroform	ND	2700	270	ug/kg	
95-49-8	o-Chlorotoluene	ND	2700	270	ug/kg	
106-43-4	p-Chlorotoluene	ND	2700	270	ug/kg	
56-23-5	Carbon tetrachloride	ND	2700	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2700	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2700	270	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2700	270	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2700	760	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2700	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2700	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2700	270	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2700	270	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2700	270	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2700	270	ug/kg	
124-48-1	Dibromochloromethane	ND	2700	270	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2700	540	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2700	590	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2700	270	ug/kg	
541-73-1	m-Dichlorobenzene	ND	2700	270	ug/kg	
95-50-1	o-Dichlorobenzene	ND	2700	270	ug/kg	
106-46-7	p-Dichlorobenzene	ND	2700	270	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-12'		
Lab Sample ID:	C45685-2	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2700	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2700	270	ug/kg	
100-41-4	Ethylbenzene	293	2700	270	ug/kg	J
637-92-3	Ethyl tert-Butyl Ether	ND	2700	270	ug/kg	
591-78-6	2-Hexanone	ND	11000	1100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2700	540	ug/kg	
98-82-8	Isopropylbenzene	350	2700	270	ug/kg	J
99-87-6	p-Isopropyltoluene	ND	2700	270	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11000	1100	ug/kg	
74-83-9	Methyl bromide	ND	2700	540	ug/kg	
74-87-3	Methyl chloride	ND	2700	540	ug/kg	
74-95-3	Methylene bromide	ND	2700	270	ug/kg	
75-09-2	Methylene chloride	ND	11000	2700	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11000	1100	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2700	540	ug/kg	
91-20-3	Naphthalene	900	2700	540	ug/kg	J
103-65-1	n-Propylbenzene	559	2700	270	ug/kg	J
100-42-5	Styrene	ND	2700	270	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	2700	270	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	22000	5400	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2700	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2700	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2700	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2700	270	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2700	270	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2700	540	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2700	270	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	735	2700	540	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	2700	540	ug/kg	
127-18-4	Tetrachloroethylene	ND	2700	320	ug/kg	
108-88-3	Toluene	449	2700	270	ug/kg	J
79-01-6	Trichloroethylene	ND	2700	270	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2700	540	ug/kg	
75-01-4	Vinyl chloride	ND	2700	540	ug/kg	
1330-20-7	Xylene (total)	1330	5400	540	ug/kg	J
	TPH-GRO (C6-C10)	315000	54000	27000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-12'		
Lab Sample ID:	C45685-2	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		88-113%
460-00-4	4-Bromofluorobenzene	104%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-12'		
Lab Sample ID:	C45685-2	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23194.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2 [b]	T23217.D	5	05/06/16	BJ	05/05/16	OP14318	ET1058

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2	30.2 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.97	3.3	0.45	ug/kg	J
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	1.6	3.3	0.31	ug/kg	J
50-32-8	Benzo(a)pyrene	0.69	3.3	0.29	ug/kg	J
205-99-2	Benzo(b)fluoranthene	0.58	3.3	0.57	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	0.57	3.3	0.53	ug/kg	J
218-01-9	Chrysene	2.4	3.3	0.55	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	0.87	3.3	0.54	ug/kg	J
86-73-7	Fluorene	3.0	3.3	0.49	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	342	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	701 [c]	17	2.0	ug/kg	
91-20-3	Naphthalene	426	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	3.7	3.3	0.36	ug/kg	
129-00-0	Pyrene	2.1	3.3	0.86	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	107%	107%	10-177%
321-60-8	2-Fluorobiphenyl	85%	90%	41-124%
1718-51-0	Terphenyl-d14	90%	106%	40-149%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-12'		
Lab Sample ID:	C45685-2	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3221.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	41.8	6.7	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene) [b]	62.0	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-C-12'		
Lab Sample ID:	C45685-2	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.83	0.83	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	69.4	0.83	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.9	1.7	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	43.7	0.83	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	34.9	1.7	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T1-WW-8'		
Lab Sample ID:	C45685-3	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60472.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.54 g	5.0 ml	8.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	23000	5600	ug/kg	
71-43-2	Benzene	643	2800	280	ug/kg	J
108-86-1	Bromobenzene	ND	2800	280	ug/kg	
74-97-5	Bromochloromethane	ND	2800	280	ug/kg	
75-27-4	Bromodichloromethane	ND	2800	280	ug/kg	
75-25-2	Bromoform	ND	2800	280	ug/kg	
104-51-8	n-Butylbenzene	ND	2800	280	ug/kg	
135-98-8	sec-Butylbenzene	417	2800	280	ug/kg	J
98-06-6	tert-Butylbenzene	ND	2800	280	ug/kg	
108-90-7	Chlorobenzene	ND	2800	280	ug/kg	
75-00-3	Chloroethane	ND	2800	560	ug/kg	
67-66-3	Chloroform	ND	2800	280	ug/kg	
95-49-8	o-Chlorotoluene	ND	2800	280	ug/kg	
106-43-4	p-Chlorotoluene	ND	2800	280	ug/kg	
56-23-5	Carbon tetrachloride	ND	2800	280	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2800	280	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2800	280	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2800	280	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2800	790	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2800	280	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2800	280	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2800	280	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2800	280	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2800	280	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2800	280	ug/kg	
124-48-1	Dibromochloromethane	ND	2800	280	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2800	560	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2800	620	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2800	280	ug/kg	
541-73-1	m-Dichlorobenzene	ND	2800	280	ug/kg	
95-50-1	o-Dichlorobenzene	ND	2800	280	ug/kg	
106-46-7	p-Dichlorobenzene	ND	2800	280	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-WW-8'		
Lab Sample ID:	C45685-3	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2800	280	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2800	280	ug/kg	
100-41-4	Ethylbenzene	392	2800	280	ug/kg	J
637-92-3	Ethyl tert-Butyl Ether	ND	2800	280	ug/kg	
591-78-6	2-Hexanone	ND	11000	1100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2800	560	ug/kg	
98-82-8	Isopropylbenzene	ND	2800	280	ug/kg	
99-87-6	p-Isopropyltoluene	555	2800	280	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	11000	1100	ug/kg	
74-83-9	Methyl bromide	ND	2800	560	ug/kg	
74-87-3	Methyl chloride	ND	2800	560	ug/kg	
74-95-3	Methylene bromide	ND	2800	280	ug/kg	
75-09-2	Methylene chloride	ND	11000	2800	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11000	1100	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2800	560	ug/kg	
91-20-3	Naphthalene	ND	2800	560	ug/kg	
103-65-1	n-Propylbenzene	ND	2800	280	ug/kg	
100-42-5	Styrene	ND	2800	280	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	2800	280	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	23000	5600	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2800	280	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2800	280	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2800	280	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2800	280	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2800	280	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2800	560	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2800	280	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2800	560	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2800	560	ug/kg	
127-18-4	Tetrachloroethylene	ND	2800	340	ug/kg	
108-88-3	Toluene	750	2800	280	ug/kg	J
79-01-6	Trichloroethylene	ND	2800	280	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2800	560	ug/kg	
75-01-4	Vinyl chloride	ND	2800	560	ug/kg	
1330-20-7	Xylene (total)	1460	5600	560	ug/kg	J
	TPH-GRO (C6-C10)	471000	56000	28000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-WW-8'		
Lab Sample ID:	C45685-3	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		88-113%
460-00-4	4-Bromofluorobenzene	108%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-WW-8'		
Lab Sample ID:	C45685-3	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23195.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	2.7	3.3	0.45	ug/kg	J
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	0.77	3.3	0.47	ug/kg	J
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	0.86	3.3	0.55	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	0.91	3.3	0.54	ug/kg	J
86-73-7	Fluorene	6.4	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	125	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	38.9	3.3	0.40	ug/kg	
91-20-3	Naphthalene	121	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	3.4	3.3	0.36	ug/kg	
129-00-0	Pyrene	1.3	3.3	0.86	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	115%		10-177%
321-60-8	2-Fluorobiphenyl	82%		41-124%
1718-51-0	Terphenyl-d14	100%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-WW-8'		
Lab Sample ID:	C45685-3	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3222.D	4	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	13	6.6	mg/kg	
	TPH (Motor Oil)	26.0	26	13	mg/kg	
	TPH (Mineral Spirits)	ND	13	6.6	mg/kg	
	TPH (Kerosene) [b]	103	13	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	78%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-WW-8'		
Lab Sample ID:	C45685-3	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.88	0.88	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	45.7	0.88	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.3	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	32.5	0.88	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	27.2	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T1-NW-8'		
Lab Sample ID:	C45685-4	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60474.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.30 g	5.0 ml	5.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38000	9400	ug/kg	
71-43-2	Benzene	ND	4700	470	ug/kg	
108-86-1	Bromobenzene	ND	4700	470	ug/kg	
74-97-5	Bromochloromethane	ND	4700	470	ug/kg	
75-27-4	Bromodichloromethane	ND	4700	470	ug/kg	
75-25-2	Bromoform	ND	4700	470	ug/kg	
104-51-8	n-Butylbenzene	530	4700	470	ug/kg	J
135-98-8	sec-Butylbenzene	744	4700	470	ug/kg	J
98-06-6	tert-Butylbenzene	ND	4700	470	ug/kg	
108-90-7	Chlorobenzene	ND	4700	470	ug/kg	
75-00-3	Chloroethane	ND	4700	940	ug/kg	
67-66-3	Chloroform	ND	4700	470	ug/kg	
95-49-8	o-Chlorotoluene	ND	4700	470	ug/kg	
106-43-4	p-Chlorotoluene	ND	4700	470	ug/kg	
56-23-5	Carbon tetrachloride	ND	4700	470	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4700	470	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4700	470	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4700	470	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4700	1300	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4700	470	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4700	470	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4700	470	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4700	470	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4700	470	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4700	470	ug/kg	
124-48-1	Dibromochloromethane	ND	4700	470	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4700	940	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4700	1000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4700	470	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4700	470	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4700	470	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4700	470	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T1-NW-8'
Lab Sample ID: C45685-4
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	4700	470	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4700	470	ug/kg	
100-41-4	Ethylbenzene	ND	4700	470	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4700	470	ug/kg	
591-78-6	2-Hexanone	ND	19000	1900	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4700	940	ug/kg	
98-82-8	Isopropylbenzene	ND	4700	470	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4700	470	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19000	1900	ug/kg	
74-83-9	Methyl bromide	ND	4700	940	ug/kg	
74-87-3	Methyl chloride	ND	4700	940	ug/kg	
74-95-3	Methylene bromide	ND	4700	470	ug/kg	
75-09-2	Methylene chloride	ND	19000	4700	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19000	1900	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4700	940	ug/kg	
91-20-3	Naphthalene	ND	4700	940	ug/kg	
103-65-1	n-Propylbenzene	659	4700	470	ug/kg	J
100-42-5	Styrene	ND	4700	470	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4700	470	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	38000	9400	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4700	470	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4700	470	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4700	470	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4700	470	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4700	470	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4700	940	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4700	470	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4700	940	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4700	940	ug/kg	
127-18-4	Tetrachloroethylene	ND	4700	570	ug/kg	
108-88-3	Toluene	ND	4700	470	ug/kg	
79-01-6	Trichloroethylene	ND	4700	470	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4700	940	ug/kg	
75-01-4	Vinyl chloride	ND	4700	940	ug/kg	
1330-20-7	Xylene (total)	ND	9400	940	ug/kg	
	TPH-GRO (C6-C10)	661000	94000	47000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-NW-8'		
Lab Sample ID:	C45685-4	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		88-113%
460-00-4	4-Bromofluorobenzene	104%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-NW-8'		
Lab Sample ID:	C45685-4	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23196.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	5.6	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	0.96	3.3	0.47	ug/kg	J
56-55-3	Benzo(a)anthracene	4.4	3.3	0.31	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.56	ug/kg	
191-24-2	Benzo(g,h,i)perylene	0.80	3.3	0.65	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.52	ug/kg	
218-01-9	Chrysene	6.7	3.3	0.54	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	3.6	3.3	0.54	ug/kg	
86-73-7	Fluorene	12.9	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	154	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	154	3.3	0.40	ug/kg	
91-20-3	Naphthalene	68.0	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	19.3	3.3	0.36	ug/kg	
129-00-0	Pyrene	6.9	3.3	0.85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	99%		10-177%
321-60-8	2-Fluorobiphenyl	84%		41-124%
1718-51-0	Terphenyl-d14	97%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-NW-8'		
Lab Sample ID:	C45685-4	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3223.D	4	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	13	6.6	mg/kg	
	TPH (Motor Oil)	135	27	13	mg/kg	
	TPH (Mineral Spirits)	ND	13	6.6	mg/kg	
	TPH (Kerosene) [b]	56.9	13	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	79%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T1-NW-8'		
Lab Sample ID:	C45685-4	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.93	0.93	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	49.3	0.93	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.4	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	32.1	0.93	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	26.5	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T2-EW-6'		
Lab Sample ID:	C45685-5	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L48843.D	1	05/06/16	JT	n/a	n/a	VL1460
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.45 g	5.0 ml	10.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	18000	4600	ug/kg	
71-43-2	Benzene	ND	2300	230	ug/kg	
108-86-1	Bromobenzene	ND	2300	230	ug/kg	
74-97-5	Bromochloromethane	ND	2300	230	ug/kg	
75-27-4	Bromodichloromethane	ND	2300	230	ug/kg	
75-25-2	Bromoform	ND	2300	230	ug/kg	
104-51-8	n-Butylbenzene	244	2300	230	ug/kg	J
135-98-8	sec-Butylbenzene	ND	2300	230	ug/kg	
98-06-6	tert-Butylbenzene	ND	2300	230	ug/kg	
108-90-7	Chlorobenzene	ND	2300	230	ug/kg	
75-00-3	Chloroethane	ND	2300	460	ug/kg	
67-66-3	Chloroform	ND	2300	230	ug/kg	
95-49-8	o-Chlorotoluene	ND	2300	230	ug/kg	
106-43-4	p-Chlorotoluene	ND	2300	230	ug/kg	
56-23-5	Carbon tetrachloride	ND	2300	230	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2300	230	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2300	230	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2300	230	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2300	640	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2300	230	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2300	230	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2300	230	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2300	230	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2300	230	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2300	230	ug/kg	
124-48-1	Dibromochloromethane	ND	2300	230	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2300	460	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2300	500	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2300	230	ug/kg	
541-73-1	m-Dichlorobenzene	ND	2300	230	ug/kg	
95-50-1	o-Dichlorobenzene	ND	2300	230	ug/kg	
106-46-7	p-Dichlorobenzene	ND	2300	230	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T2-EW-6'
Lab Sample ID: C45685-5
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2300	230	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2300	230	ug/kg	
100-41-4	Ethylbenzene	ND	2300	230	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	2300	230	ug/kg	
591-78-6	2-Hexanone	ND	9200	920	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2300	460	ug/kg	
98-82-8	Isopropylbenzene	ND	2300	230	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2300	230	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	9200	920	ug/kg	
74-83-9	Methyl bromide	ND	2300	460	ug/kg	
74-87-3	Methyl chloride	ND	2300	460	ug/kg	
74-95-3	Methylene bromide	ND	2300	230	ug/kg	
75-09-2	Methylene chloride	ND	9200	2300	ug/kg	
78-93-3	Methyl ethyl ketone	ND	9200	920	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2300	460	ug/kg	
91-20-3	Naphthalene	626	2300	460	ug/kg	J
103-65-1	n-Propylbenzene	ND	2300	230	ug/kg	
100-42-5	Styrene	ND	2300	230	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	2300	230	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	18000	4600	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2300	230	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2300	230	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2300	230	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2300	230	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2300	230	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2300	460	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2300	230	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2300	460	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2300	460	ug/kg	
127-18-4	Tetrachloroethylene	ND	2300	280	ug/kg	
108-88-3	Toluene	ND	2300	230	ug/kg	
79-01-6	Trichloroethylene	ND	2300	230	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2300	460	ug/kg	
75-01-4	Vinyl chloride	ND	2300	460	ug/kg	
1330-20-7	Xylene (total)	ND	4600	460	ug/kg	
	TPH-GRO (C6-C10)	78800	46000	23000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-EW-6'		
Lab Sample ID:	C45685-5	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		88-113%
460-00-4	4-Bromofluorobenzene	93%		79-115%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-EW-6'		
Lab Sample ID:	C45685-5	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23197.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.31	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	15.5	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	28.5	3.3	0.40	ug/kg	
91-20-3	Naphthalene	14.2	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.36	ug/kg	
129-00-0	Pyrene	ND	3.3	0.85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		10-177%
321-60-8	2-Fluorobiphenyl	84%		41-124%
1718-51-0	Terphenyl-d14	108%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-EW-6'		
Lab Sample ID:	C45685-5	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3224.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene) [b]	8.20	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	83%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-EW-6'		
Lab Sample ID:	C45685-5	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.93	0.93	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	69.3	0.93	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	4.0	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	42.5	0.93	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	26.9	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T2-C-12.5		
Lab Sample ID:	C45685-6	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60473.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.48 g	5.0 ml	1.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	180000	46000	ug/kg	
71-43-2	Benzene	ND	23000	2300	ug/kg	
108-86-1	Bromobenzene	ND	23000	2300	ug/kg	
74-97-5	Bromochloromethane	ND	23000	2300	ug/kg	
75-27-4	Bromodichloromethane	ND	23000	2300	ug/kg	
75-25-2	Bromoform	ND	23000	2300	ug/kg	
104-51-8	n-Butylbenzene	5640	23000	2300	ug/kg	J
135-98-8	sec-Butylbenzene	6250	23000	2300	ug/kg	J
98-06-6	tert-Butylbenzene	ND	23000	2300	ug/kg	
108-90-7	Chlorobenzene	ND	23000	2300	ug/kg	
75-00-3	Chloroethane	ND	23000	4600	ug/kg	
67-66-3	Chloroform	ND	23000	2300	ug/kg	
95-49-8	o-Chlorotoluene	ND	23000	2300	ug/kg	
106-43-4	p-Chlorotoluene	ND	23000	2300	ug/kg	
56-23-5	Carbon tetrachloride	ND	23000	2300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	23000	2300	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	23000	2300	ug/kg	
563-58-6	1,1-Dichloropropene	ND	23000	2300	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	23000	6400	ug/kg	
106-93-4	1,2-Dibromoethane	ND	23000	2300	ug/kg	
107-06-2	1,2-Dichloroethane	ND	23000	2300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	23000	2300	ug/kg	
142-28-9	1,3-Dichloropropane	ND	23000	2300	ug/kg	
108-20-3	Di-Isopropyl ether	ND	23000	2300	ug/kg	
594-20-7	2,2-Dichloropropane	ND	23000	2300	ug/kg	
124-48-1	Dibromochloromethane	ND	23000	2300	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	23000	4600	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	23000	5000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	23000	2300	ug/kg	
541-73-1	m-Dichlorobenzene	ND	23000	2300	ug/kg	
95-50-1	o-Dichlorobenzene	ND	23000	2300	ug/kg	
106-46-7	p-Dichlorobenzene	ND	23000	2300	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-12.5		
Lab Sample ID:	C45685-6	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	23000	2300	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	23000	2300	ug/kg	
100-41-4	Ethylbenzene	ND	23000	2300	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	23000	2300	ug/kg	
591-78-6	2-Hexanone	ND	91000	9100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	23000	4600	ug/kg	
98-82-8	Isopropylbenzene	10700	23000	2300	ug/kg	J
99-87-6	p-Isopropyltoluene	2620	23000	2300	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	91000	9100	ug/kg	
74-83-9	Methyl bromide	ND	23000	4600	ug/kg	
74-87-3	Methyl chloride	ND	23000	4600	ug/kg	
74-95-3	Methylene bromide	ND	23000	2300	ug/kg	
75-09-2	Methylene chloride	ND	91000	23000	ug/kg	
78-93-3	Methyl ethyl ketone	ND	91000	9100	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	23000	4600	ug/kg	
91-20-3	Naphthalene	7770	23000	4600	ug/kg	J
103-65-1	n-Propylbenzene	13000	23000	2300	ug/kg	J
100-42-5	Styrene	ND	23000	2300	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	23000	2300	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	180000	46000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	23000	2300	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	23000	2300	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	23000	2300	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	23000	2300	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	23000	2300	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	23000	4600	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	23000	2300	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	5410	23000	4600	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	23000	4600	ug/kg	
127-18-4	Tetrachloroethylene	ND	23000	2700	ug/kg	
108-88-3	Toluene	ND	23000	2300	ug/kg	
79-01-6	Trichloroethylene	ND	23000	2300	ug/kg	
75-69-4	Trichlorofluoromethane	ND	23000	4600	ug/kg	
75-01-4	Vinyl chloride	ND	23000	4600	ug/kg	
1330-20-7	Xylene (total)	ND	46000	4600	ug/kg	
	TPH-GRO (C6-C10)	6320000	460000	230000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-12.5		
Lab Sample ID:	C45685-6	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		88-113%
460-00-4	4-Bromofluorobenzene	107%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-12.5		
Lab Sample ID:	C45685-6	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23198.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2 [b]	T23218.D	20	05/06/16	BJ	05/05/16	OP14318	ET1058

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2	30.1 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	6.2	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	1.0	3.3	0.32	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	1.3	3.3	0.55	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	1.1	3.3	0.54	ug/kg	J
86-73-7	Fluorene	19.1	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	1860 [c]	66	11	ug/kg	
91-57-6	2-Methylnaphthalene	3560 [c]	66	8.0	ug/kg	
91-20-3	Naphthalene	2580 [c]	66	10	ug/kg	
85-01-8	Phenanthrene	7.0	3.3	0.37	ug/kg	
129-00-0	Pyrene	1.6	3.3	0.86	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	105%	298% [d]	10-177%
321-60-8	2-Fluorobiphenyl	87%	87%	41-124%
1718-51-0	Terphenyl-d14	98%	98%	40-149%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference.
(c) Result is from Run# 2
(d) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-12.5		
Lab Sample ID:	C45685-6	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3225.D	10	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	33	17	mg/kg	
	TPH (Motor Oil)	34.4	66	33	mg/kg	J
	TPH (Mineral Spirits)	ND	33	17	mg/kg	
	TPH (Kerosene) [b]	262	33	17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	77%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-C-12.5		
Lab Sample ID:	C45685-6	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.87	0.87	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	61.6	0.87	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	2.4	1.7	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	47.2	0.87	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	22.5	1.7	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T2-WW-8'		
Lab Sample ID:	C45685-7	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60468.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.67 g	5.0 ml	10.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	18000	4400	ug/kg	
71-43-2	Benzene	ND	2200	220	ug/kg	
108-86-1	Bromobenzene	ND	2200	220	ug/kg	
74-97-5	Bromochloromethane	ND	2200	220	ug/kg	
75-27-4	Bromodichloromethane	ND	2200	220	ug/kg	
75-25-2	Bromoform	ND	2200	220	ug/kg	
104-51-8	n-Butylbenzene	ND	2200	220	ug/kg	
135-98-8	sec-Butylbenzene	ND	2200	220	ug/kg	
98-06-6	tert-Butylbenzene	ND	2200	220	ug/kg	
108-90-7	Chlorobenzene	ND	2200	220	ug/kg	
75-00-3	Chloroethane	ND	2200	440	ug/kg	
67-66-3	Chloroform	ND	2200	220	ug/kg	
95-49-8	o-Chlorotoluene	ND	2200	220	ug/kg	
106-43-4	p-Chlorotoluene	ND	2200	220	ug/kg	
56-23-5	Carbon tetrachloride	ND	2200	220	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2200	220	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2200	220	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2200	220	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2200	620	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2200	220	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2200	220	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2200	220	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2200	220	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2200	220	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2200	220	ug/kg	
124-48-1	Dibromochloromethane	ND	2200	220	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2200	440	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2200	490	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2200	220	ug/kg	
541-73-1	m-Dichlorobenzene	ND	2200	220	ug/kg	
95-50-1	o-Dichlorobenzene	ND	2200	220	ug/kg	
106-46-7	p-Dichlorobenzene	ND	2200	220	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T2-WW-8'
Lab Sample ID: C45685-7
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2200	220	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2200	220	ug/kg	
100-41-4	Ethylbenzene	ND	2200	220	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	2200	220	ug/kg	
591-78-6	2-Hexanone	ND	8800	880	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2200	440	ug/kg	
98-82-8	Isopropylbenzene	ND	2200	220	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2200	220	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	8800	880	ug/kg	
74-83-9	Methyl bromide	ND	2200	440	ug/kg	
74-87-3	Methyl chloride	ND	2200	440	ug/kg	
74-95-3	Methylene bromide	ND	2200	220	ug/kg	
75-09-2	Methylene chloride	ND	8800	2200	ug/kg	
78-93-3	Methyl ethyl ketone	ND	8800	880	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2200	440	ug/kg	
91-20-3	Naphthalene	ND	2200	440	ug/kg	
103-65-1	n-Propylbenzene	261	2200	220	ug/kg	J
100-42-5	Styrene	ND	2200	220	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	2200	220	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	18000	4400	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2200	220	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2200	220	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2200	220	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2200	220	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2200	220	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2200	440	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2200	220	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2200	440	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2200	440	ug/kg	
127-18-4	Tetrachloroethylene	ND	2200	260	ug/kg	
108-88-3	Toluene	ND	2200	220	ug/kg	
79-01-6	Trichloroethylene	ND	2200	220	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2200	440	ug/kg	
75-01-4	Vinyl chloride	ND	2200	440	ug/kg	
1330-20-7	Xylene (total)	ND	4400	440	ug/kg	
	TPH-GRO (C6-C10)	178000	44000	22000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-WW-8'		
Lab Sample ID:	C45685-7	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		88-113%
460-00-4	4-Bromofluorobenzene	105%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-WW-8'		
Lab Sample ID:	C45685-7	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23199.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.65	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	35.7	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	64.2	3.3	0.40	ug/kg	
91-20-3	Naphthalene	33.3	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	0.47	3.3	0.36	ug/kg	J
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		10-177%
321-60-8	2-Fluorobiphenyl	83%		41-124%
1718-51-0	Terphenyl-d14	99%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-WW-8'		
Lab Sample ID:	C45685-7	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3226.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene) [b]	4.73	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	86%		38-146%

(a) All results reported on a wet weight basis.
(b) Jet-fuel pattern is not present.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-WW-8'		
Lab Sample ID:	C45685-7	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.88	0.88	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	46.4	0.88	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.2	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	32.2	0.88	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	26.0	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T2-SW-8'		
Lab Sample ID:	C45685-8	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60469.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.39 g	5.0 ml	10.0 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	19000	4600	ug/kg	
71-43-2	Benzene	ND	2300	230	ug/kg	
108-86-1	Bromobenzene	ND	2300	230	ug/kg	
74-97-5	Bromochloromethane	ND	2300	230	ug/kg	
75-27-4	Bromodichloromethane	ND	2300	230	ug/kg	
75-25-2	Bromoform	ND	2300	230	ug/kg	
104-51-8	n-Butylbenzene	ND	2300	230	ug/kg	
135-98-8	sec-Butylbenzene	ND	2300	230	ug/kg	
98-06-6	tert-Butylbenzene	ND	2300	230	ug/kg	
108-90-7	Chlorobenzene	ND	2300	230	ug/kg	
75-00-3	Chloroethane	ND	2300	460	ug/kg	
67-66-3	Chloroform	ND	2300	230	ug/kg	
95-49-8	o-Chlorotoluene	ND	2300	230	ug/kg	
106-43-4	p-Chlorotoluene	ND	2300	230	ug/kg	
56-23-5	Carbon tetrachloride	ND	2300	230	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2300	230	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2300	230	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2300	230	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2300	650	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2300	230	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2300	230	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2300	230	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2300	230	ug/kg	
108-20-3	Di-Isopropyl ether	ND	2300	230	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2300	230	ug/kg	
124-48-1	Dibromochloromethane	ND	2300	230	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2300	460	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2300	510	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2300	230	ug/kg	
541-73-1	m-Dichlorobenzene	ND	2300	230	ug/kg	
95-50-1	o-Dichlorobenzene	ND	2300	230	ug/kg	
106-46-7	p-Dichlorobenzene	ND	2300	230	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T2-SW-8'
Lab Sample ID: C45685-8
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2300	230	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2300	230	ug/kg	
100-41-4	Ethylbenzene	ND	2300	230	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	2300	230	ug/kg	
591-78-6	2-Hexanone	ND	9300	930	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2300	460	ug/kg	
98-82-8	Isopropylbenzene	ND	2300	230	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2300	230	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	9300	930	ug/kg	
74-83-9	Methyl bromide	ND	2300	460	ug/kg	
74-87-3	Methyl chloride	ND	2300	460	ug/kg	
74-95-3	Methylene bromide	ND	2300	230	ug/kg	
75-09-2	Methylene chloride	ND	9300	2300	ug/kg	
78-93-3	Methyl ethyl ketone	ND	9300	930	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2300	460	ug/kg	
91-20-3	Naphthalene	ND	2300	460	ug/kg	
103-65-1	n-Propylbenzene	236	2300	230	ug/kg	J
100-42-5	Styrene	ND	2300	230	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	2300	230	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	19000	4600	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2300	230	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2300	230	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2300	230	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2300	230	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	2300	230	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2300	460	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2300	230	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2300	460	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2300	460	ug/kg	
127-18-4	Tetrachloroethylene	ND	2300	280	ug/kg	
108-88-3	Toluene	ND	2300	230	ug/kg	
79-01-6	Trichloroethylene	ND	2300	230	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2300	460	ug/kg	
75-01-4	Vinyl chloride	ND	2300	460	ug/kg	
1330-20-7	Xylene (total)	ND	4600	460	ug/kg	
	TPH-GRO (C6-C10)	144000	46000	23000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-SW-8'		
Lab Sample ID:	C45685-8	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		88-113%
460-00-4	4-Bromofluorobenzene	104%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-SW-8'		
Lab Sample ID:	C45685-8	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23200.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	0.61	3.3	0.50	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	52.4	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	95.6	3.3	0.40	ug/kg	
91-20-3	Naphthalene	53.8	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	0.41	3.3	0.37	ug/kg	J
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		10-177%
321-60-8	2-Fluorobiphenyl	68%		41-124%
1718-51-0	Terphenyl-d14	96%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-SW-8'		
Lab Sample ID:	C45685-8	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3228.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	4.19	6.6	3.3	mg/kg	J
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene) [b]	16.2	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	83%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern appears to be Jet-A related but does not match with calibration standard, quantitated as best match.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T2-SW-8'		
Lab Sample ID:	C45685-8	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.94	0.94	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	63.0	0.94	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.8	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	33.9	0.94	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	25.3	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T3-WW-8'		
Lab Sample ID:	C45685-9	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60461.D	1	05/06/16	JT	n/a	n/a	VM1816
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.08 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2000	490	ug/kg	
71-43-2	Benzene	ND	250	25	ug/kg	
108-86-1	Bromobenzene	ND	250	25	ug/kg	
74-97-5	Bromochloromethane	ND	250	25	ug/kg	
75-27-4	Bromodichloromethane	ND	250	25	ug/kg	
75-25-2	Bromoform	ND	250	25	ug/kg	
104-51-8	n-Butylbenzene	ND	250	25	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	25	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	25	ug/kg	
108-90-7	Chlorobenzene	ND	250	25	ug/kg	
75-00-3	Chloroethane	ND	250	49	ug/kg	
67-66-3	Chloroform	ND	250	25	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	25	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	25	ug/kg	
56-23-5	Carbon tetrachloride	ND	250	25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	25	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	250	25	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	25	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	69	ug/kg	
106-93-4	1,2-Dibromoethane	ND	250	25	ug/kg	
107-06-2	1,2-Dichloroethane	ND	250	25	ug/kg	
78-87-5	1,2-Dichloropropane	ND	250	25	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	25	ug/kg	
108-20-3	Di-Isopropyl ether	ND	250	25	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	25	ug/kg	
124-48-1	Dibromochloromethane	ND	250	25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	49	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	250	54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	25	ug/kg	
541-73-1	m-Dichlorobenzene	ND	250	25	ug/kg	
95-50-1	o-Dichlorobenzene	ND	250	25	ug/kg	
106-46-7	p-Dichlorobenzene	ND	250	25	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-WW-8'		
Lab Sample ID:	C45685-9	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	250	25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	25	ug/kg	
100-41-4	Ethylbenzene	ND	250	25	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	250	25	ug/kg	
591-78-6	2-Hexanone	ND	980	98	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	49	ug/kg	
98-82-8	Isopropylbenzene	ND	250	25	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	25	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	980	98	ug/kg	
74-83-9	Methyl bromide	ND	250	49	ug/kg	
74-87-3	Methyl chloride	ND	250	49	ug/kg	
74-95-3	Methylene bromide	ND	250	25	ug/kg	
75-09-2	Methylene chloride	ND	980	250	ug/kg	
78-93-3	Methyl ethyl ketone	ND	980	98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	250	49	ug/kg	
91-20-3	Naphthalene	ND	250	49	ug/kg	
103-65-1	n-Propylbenzene	ND	250	25	ug/kg	
100-42-5	Styrene	ND	250	25	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	250	25	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	2000	490	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	25	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	25	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	49	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	25	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	49	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	49	ug/kg	
127-18-4	Tetrachloroethylene	ND	250	30	ug/kg	
108-88-3	Toluene	ND	250	25	ug/kg	
79-01-6	Trichloroethylene	ND	250	25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	49	ug/kg	
75-01-4	Vinyl chloride	ND	250	49	ug/kg	
1330-20-7	Xylene (total)	ND	490	49	ug/kg	
	TPH-GRO (C6-C10)	ND	4900	2500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-WW-8'		
Lab Sample ID:	C45685-9	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		88-113%
460-00-4	4-Bromofluorobenzene	95%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-WW-8'		
Lab Sample ID:	C45685-9	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23201.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	0.50	3.3	0.40	ug/kg	J
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		10-177%
321-60-8	2-Fluorobiphenyl	81%		41-124%
1718-51-0	Terphenyl-d14	100%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-WW-8'		
Lab Sample ID:	C45685-9	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3229.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	83%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-WW-8'		
Lab Sample ID:	C45685-9	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.90	0.90	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	56.7	0.90	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.5	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	32.8	0.90	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	27.7	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T3-C-12'		
Lab Sample ID:	C45685-10	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L48810.D	1	05/05/16	JT	n/a	n/a	VL1459
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.23 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1900	480	ug/kg	
71-43-2	Benzene	ND	240	24	ug/kg	
108-86-1	Bromobenzene	ND	240	24	ug/kg	
74-97-5	Bromochloromethane	ND	240	24	ug/kg	
75-27-4	Bromodichloromethane	ND	240	24	ug/kg	
75-25-2	Bromoform	ND	240	24	ug/kg	
104-51-8	n-Butylbenzene	ND	240	24	ug/kg	
135-98-8	sec-Butylbenzene	63.9	240	24	ug/kg	J
98-06-6	tert-Butylbenzene	ND	240	24	ug/kg	
108-90-7	Chlorobenzene	ND	240	24	ug/kg	
75-00-3	Chloroethane	ND	240	48	ug/kg	
67-66-3	Chloroform	ND	240	24	ug/kg	
95-49-8	o-Chlorotoluene	ND	240	24	ug/kg	
106-43-4	p-Chlorotoluene	ND	240	24	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	24	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	24	ug/kg	
563-58-6	1,1-Dichloropropene	ND	240	24	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	240	67	ug/kg	
106-93-4	1,2-Dibromoethane	ND	240	24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	24	ug/kg	
142-28-9	1,3-Dichloropropane	ND	240	24	ug/kg	
108-20-3	Di-Isopropyl ether	ND	240	24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	240	24	ug/kg	
124-48-1	Dibromochloromethane	ND	240	24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	240	48	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	24	ug/kg	
541-73-1	m-Dichlorobenzene	ND	240	24	ug/kg	
95-50-1	o-Dichlorobenzene	ND	240	24	ug/kg	
106-46-7	p-Dichlorobenzene	ND	240	24	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T3-C-12'
Lab Sample ID: C45685-10
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	240	24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	24	ug/kg	
100-41-4	Ethylbenzene	ND	240	24	ug/kg	
637-92-3	Ethyl tert-Butyl Ether [b]	ND	240	24	ug/kg	
591-78-6	2-Hexanone	ND	960	96	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	48	ug/kg	
98-82-8	Isopropylbenzene	ND	240	24	ug/kg	
99-87-6	p-Isopropyltoluene	86.8	240	24	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	960	96	ug/kg	
74-83-9	Methyl bromide	ND	240	48	ug/kg	
74-87-3	Methyl chloride	ND	240	48	ug/kg	
74-95-3	Methylene bromide	ND	240	24	ug/kg	
75-09-2	Methylene chloride	ND	960	240	ug/kg	
78-93-3	Methyl ethyl ketone	ND	960	96	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [b]	ND	240	48	ug/kg	
91-20-3	Naphthalene	74.3	240	48	ug/kg	J
103-65-1	n-Propylbenzene	36.1	240	24	ug/kg	J
100-42-5	Styrene	ND	240	24	ug/kg	
994-05-8	Tert-Amyl Methyl Ether [b]	ND	240	24	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	1900	480	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	240	24	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	240	24	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	240	48	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	24	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	106	240	48	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	157	240	48	ug/kg	J
127-18-4	Tetrachloroethylene	ND	240	29	ug/kg	
108-88-3	Toluene	ND	240	24	ug/kg	
79-01-6	Trichloroethylene	ND	240	24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	240	48	ug/kg	
75-01-4	Vinyl chloride	ND	240	48	ug/kg	
1330-20-7	Xylene (total)	62.0	480	48	ug/kg	J
	TPH-GRO (C6-C10)	67800	4800	2400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-12'		
Lab Sample ID:	C45685-10	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		88-113%
460-00-4	4-Bromofluorobenzene	106%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-12'		
Lab Sample ID:	C45685-10	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23202.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	3.7	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	12.1	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	124	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	242	3.3	0.40	ug/kg	
91-20-3	Naphthalene	91.3	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	6.5	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	108%		10-177%
321-60-8	2-Fluorobiphenyl	84%		41-124%
1718-51-0	Terphenyl-d14	101%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-12'		
Lab Sample ID:	C45685-10	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3230.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.6	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.6	mg/kg	
	TPH (Kerosene) [b]	31.8	3.3	1.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	86%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern resembles Jet Fuel.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-C-12'		
Lab Sample ID:	C45685-10	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.82	0.82	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	58.7	0.82	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	2.9	1.6	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	40.4	0.82	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	21.3	1.6	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 9669-T3-SW-6.5
Lab Sample ID: C45685-11
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60533.D	1	05/10/16	JT	n/a	n/a	VM1819
Run #2	M60535.D	100	05/10/16	JT	n/a	n/a	VM1819

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.51 g	5.0 ml	1.0 ul
Run #2	5.51 g	5.0 ml	50.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	180000	45000	ug/kg	
71-43-2	Benzene	ND	23000	2300	ug/kg	
108-86-1	Bromobenzene	ND	23000	2300	ug/kg	
74-97-5	Bromochloromethane	ND	23000	2300	ug/kg	
75-27-4	Bromodichloromethane	ND	23000	2300	ug/kg	
75-25-2	Bromoform	ND	23000	2300	ug/kg	
104-51-8	n-Butylbenzene	ND	23000	2300	ug/kg	
135-98-8	sec-Butylbenzene	10100	23000	2300	ug/kg	J
98-06-6	tert-Butylbenzene	ND	23000	2300	ug/kg	
108-90-7	Chlorobenzene	ND	23000	2300	ug/kg	
75-00-3	Chloroethane	ND	23000	4500	ug/kg	
67-66-3	Chloroform	ND	23000	2300	ug/kg	
95-49-8	o-Chlorotoluene	ND	23000	2300	ug/kg	
106-43-4	p-Chlorotoluene	ND	23000	2300	ug/kg	
56-23-5	Carbon tetrachloride	ND	23000	2300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	23000	2300	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	23000	2300	ug/kg	
563-58-6	1,1-Dichloropropene	ND	23000	2300	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	23000	6400	ug/kg	
106-93-4	1,2-Dibromoethane	ND	23000	2300	ug/kg	
107-06-2	1,2-Dichloroethane	ND	23000	2300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	23000	2300	ug/kg	
142-28-9	1,3-Dichloropropane	ND	23000	2300	ug/kg	
108-20-3	Di-Isopropyl ether	ND	23000	2300	ug/kg	
594-20-7	2,2-Dichloropropane	ND	23000	2300	ug/kg	
124-48-1	Dibromochloromethane	ND	23000	2300	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	23000	4500	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	23000	5000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	23000	2300	ug/kg	
541-73-1	m-Dichlorobenzene	ND	23000	2300	ug/kg	
95-50-1	o-Dichlorobenzene	ND	23000	2300	ug/kg	
106-46-7	p-Dichlorobenzene	ND	23000	2300	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T3-SW-6.5
Lab Sample ID: C45685-11
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	23000	2300	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	23000	2300	ug/kg	
100-41-4	Ethylbenzene	ND	23000	2300	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	23000	2300	ug/kg	
591-78-6	2-Hexanone	ND	91000	9100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	23000	4500	ug/kg	
98-82-8	Isopropylbenzene	2550	23000	2300	ug/kg	J
99-87-6	p-Isopropyltoluene	18600	23000	2300	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	91000	9100	ug/kg	
74-83-9	Methyl bromide	ND	23000	4500	ug/kg	
74-87-3	Methyl chloride	ND	23000	4500	ug/kg	
74-95-3	Methylene bromide	ND	23000	2300	ug/kg	
75-09-2	Methylene chloride	ND	91000	23000	ug/kg	
78-93-3	Methyl ethyl ketone	ND	91000	9100	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	23000	4500	ug/kg	
91-20-3	Naphthalene	9000	23000	4500	ug/kg	J
103-65-1	n-Propylbenzene	5400	23000	2300	ug/kg	J
100-42-5	Styrene	ND	23000	2300	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	23000	2300	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	180000	45000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	23000	2300	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	23000	2300	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	23000	2300	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	23000	2300	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	23000	2300	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	23000	4500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	23000	2300	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	78600	23000	4500	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	36900	23000	4500	ug/kg	
127-18-4	Tetrachloroethylene	ND	23000	2700	ug/kg	
108-88-3	Toluene	ND	23000	2300	ug/kg	
79-01-6	Trichloroethylene	ND	23000	2300	ug/kg	
75-69-4	Trichlorofluoromethane	ND	23000	4500	ug/kg	
75-01-4	Vinyl chloride	ND	23000	4500	ug/kg	
1330-20-7	Xylene (total)	6640	45000	4500	ug/kg	J
	TPH-GRO (C6-C10)	1330000 [c]	910000	450000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	109%	80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-SW-6.5		
Lab Sample ID:	C45685-11	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%	92%	88-113%
460-00-4	4-Bromofluorobenzene	114%	101%	79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-SW-6.5		
Lab Sample ID:	C45685-11	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	T23219.D	20	05/06/16	BJ	05/05/16	OP14318	ET1058
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	24.5	66	8.9	ug/kg	J
208-96-8	Acenaphthylene	ND	66	12	ug/kg	
120-12-7	Anthracene	ND	66	9.4	ug/kg	
56-55-3	Benzo(a)anthracene	ND	66	6.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	66	5.8	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	66	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	66	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	66	11	ug/kg	
218-01-9	Chrysene	ND	66	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	66	14	ug/kg	
206-44-0	Fluoranthene	ND	66	11	ug/kg	
86-73-7	Fluorene	96.9	66	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	66	14	ug/kg	
90-12-0	1-Methylnaphthalene	1970	66	11	ug/kg	
91-57-6	2-Methylnaphthalene	3330	66	8.0	ug/kg	
91-20-3	Naphthalene	724	66	9.9	ug/kg	
85-01-8	Phenanthrene	38.9	66	7.3	ug/kg	J
129-00-0	Pyrene	ND	66	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	473% [c]		10-177%
321-60-8	2-Fluorobiphenyl	80%		41-124%
1718-51-0	Terphenyl-d14	84%		40-149%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference.
(c) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-SW-6.5		
Lab Sample ID:	C45685-11	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3260.D	100	05/09/16	FL	05/06/16	OP14328	GBB127
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	330	170	mg/kg	
	TPH (Motor Oil)	ND	670	330	mg/kg	
	TPH (Mineral Spirits)	ND	330	170	mg/kg	
	TPH (Kerosene) [b]	5090	330	170	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		38-146%

(a) All results reported on a wet weight basis.
(b) Pattern resembles Kerosene.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-SW-6.5		
Lab Sample ID:	C45685-11	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.83	0.83	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	46.8	0.83	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	17.1	1.7	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	30.0	0.83	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	31.9	1.7	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T3-NW-8'		
Lab Sample ID:	C45685-12	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L48812.D	1	05/05/16	JT	n/a	n/a	VL1459
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.83 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1700	430	ug/kg	
71-43-2	Benzene	ND	210	21	ug/kg	
108-86-1	Bromobenzene	ND	210	21	ug/kg	
74-97-5	Bromochloromethane	ND	210	21	ug/kg	
75-27-4	Bromodichloromethane	ND	210	21	ug/kg	
75-25-2	Bromoform	ND	210	21	ug/kg	
104-51-8	n-Butylbenzene	24.3	210	21	ug/kg	J
135-98-8	sec-Butylbenzene	ND	210	21	ug/kg	
98-06-6	tert-Butylbenzene	ND	210	21	ug/kg	
108-90-7	Chlorobenzene	ND	210	21	ug/kg	
75-00-3	Chloroethane	ND	210	43	ug/kg	
67-66-3	Chloroform	ND	210	21	ug/kg	
95-49-8	o-Chlorotoluene	ND	210	21	ug/kg	
106-43-4	p-Chlorotoluene	ND	210	21	ug/kg	
56-23-5	Carbon tetrachloride	ND	210	21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	210	21	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	210	21	ug/kg	
563-58-6	1,1-Dichloropropene	ND	210	21	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	210	60	ug/kg	
106-93-4	1,2-Dibromoethane	ND	210	21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	210	21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	210	21	ug/kg	
142-28-9	1,3-Dichloropropane	ND	210	21	ug/kg	
108-20-3	Di-Isopropyl ether	ND	210	21	ug/kg	
594-20-7	2,2-Dichloropropane	ND	210	21	ug/kg	
124-48-1	Dibromochloromethane	ND	210	21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	210	43	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	210	47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	210	21	ug/kg	
541-73-1	m-Dichlorobenzene	ND	210	21	ug/kg	
95-50-1	o-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	p-Dichlorobenzene	ND	210	21	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T3-NW-8'
Lab Sample ID: C45685-12
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	210	21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	210	21	ug/kg	
100-41-4	Ethylbenzene	ND	210	21	ug/kg	
637-92-3	Ethyl tert-Butyl Ether [b]	ND	210	21	ug/kg	
591-78-6	2-Hexanone	ND	860	86	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	43	ug/kg	
98-82-8	Isopropylbenzene	ND	210	21	ug/kg	
99-87-6	p-Isopropyltoluene	ND	210	21	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	860	86	ug/kg	
74-83-9	Methyl bromide	ND	210	43	ug/kg	
74-87-3	Methyl chloride	ND	210	43	ug/kg	
74-95-3	Methylene bromide	ND	210	21	ug/kg	
75-09-2	Methylene chloride	ND	860	210	ug/kg	
78-93-3	Methyl ethyl ketone	ND	860	86	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [b]	ND	210	43	ug/kg	
91-20-3	Naphthalene	ND	210	43	ug/kg	
103-65-1	n-Propylbenzene	ND	210	21	ug/kg	
100-42-5	Styrene	ND	210	21	ug/kg	
994-05-8	Tert-Amyl Methyl Ether [b]	ND	210	21	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	1700	430	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	210	21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	210	21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	210	21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	210	21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	210	21	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	210	43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	61.7	210	43	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	210	43	ug/kg	
127-18-4	Tetrachloroethylene	ND	210	26	ug/kg	
108-88-3	Toluene	ND	210	21	ug/kg	
79-01-6	Trichloroethylene	ND	210	21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	210	43	ug/kg	
75-01-4	Vinyl chloride	ND	210	43	ug/kg	
1330-20-7	Xylene (total)	ND	430	43	ug/kg	
	TPH-GRO (C6-C10)	6960	4300	2100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-NW-8'		
Lab Sample ID:	C45685-12	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	99%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-NW-8'		
Lab Sample ID:	C45685-12	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23204.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	4.1	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	6.6	3.3	0.40	ug/kg	
91-20-3	Naphthalene	1.8	3.3	0.50	ug/kg	J
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		10-177%
321-60-8	2-Fluorobiphenyl	76%		41-124%
1718-51-0	Terphenyl-d14	100%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-NW-8'		
Lab Sample ID:	C45685-12	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3232.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	83%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-NW-8'		
Lab Sample ID:	C45685-12	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.97	0.97	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	57.1	0.97	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.7	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	34.9	0.97	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	28.0	1.9	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	9669-T3-EW-9'		
Lab Sample ID:	C45685-13	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L48813.D	1	05/05/16	JT	n/a	n/a	VL1459
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.52 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1800	450	ug/kg	
71-43-2	Benzene	ND	230	23	ug/kg	
108-86-1	Bromobenzene	ND	230	23	ug/kg	
74-97-5	Bromochloromethane	ND	230	23	ug/kg	
75-27-4	Bromodichloromethane	ND	230	23	ug/kg	
75-25-2	Bromoform	ND	230	23	ug/kg	
104-51-8	n-Butylbenzene	ND	230	23	ug/kg	
135-98-8	sec-Butylbenzene	ND	230	23	ug/kg	
98-06-6	tert-Butylbenzene	ND	230	23	ug/kg	
108-90-7	Chlorobenzene	ND	230	23	ug/kg	
75-00-3	Chloroethane	ND	230	45	ug/kg	
67-66-3	Chloroform	ND	230	23	ug/kg	
95-49-8	o-Chlorotoluene	ND	230	23	ug/kg	
106-43-4	p-Chlorotoluene	ND	230	23	ug/kg	
56-23-5	Carbon tetrachloride	ND	230	23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	230	23	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	230	23	ug/kg	
563-58-6	1,1-Dichloropropene	ND	230	23	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	230	63	ug/kg	
106-93-4	1,2-Dibromoethane	ND	230	23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	230	23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	230	23	ug/kg	
142-28-9	1,3-Dichloropropane	ND	230	23	ug/kg	
108-20-3	Di-Isopropyl ether	ND	230	23	ug/kg	
594-20-7	2,2-Dichloropropane	ND	230	23	ug/kg	
124-48-1	Dibromochloromethane	ND	230	23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	230	45	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	230	50	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	230	23	ug/kg	
541-73-1	m-Dichlorobenzene	ND	230	23	ug/kg	
95-50-1	o-Dichlorobenzene	ND	230	23	ug/kg	
106-46-7	p-Dichlorobenzene	ND	230	23	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9669-T3-EW-9'
Lab Sample ID: C45685-13
Matrix: SO - Soil
Method: SW846 8260B
Project: 1110 Jackson Street - Oakland, CA

Date Sampled: 05/04/16
Date Received: 05/05/16
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	230	23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	230	23	ug/kg	
100-41-4	Ethylbenzene	ND	230	23	ug/kg	
637-92-3	Ethyl tert-Butyl Ether [b]	ND	230	23	ug/kg	
591-78-6	2-Hexanone	ND	910	91	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	45	ug/kg	
98-82-8	Isopropylbenzene	ND	230	23	ug/kg	
99-87-6	p-Isopropyltoluene	ND	230	23	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	910	91	ug/kg	
74-83-9	Methyl bromide	ND	230	45	ug/kg	
74-87-3	Methyl chloride	ND	230	45	ug/kg	
74-95-3	Methylene bromide	ND	230	23	ug/kg	
75-09-2	Methylene chloride	ND	910	230	ug/kg	
78-93-3	Methyl ethyl ketone	ND	910	91	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [b]	ND	230	45	ug/kg	
91-20-3	Naphthalene	ND	230	45	ug/kg	
103-65-1	n-Propylbenzene	ND	230	23	ug/kg	
100-42-5	Styrene	ND	230	23	ug/kg	
994-05-8	Tert-Amyl Methyl Ether [b]	ND	230	23	ug/kg	
75-65-0	Tert Butyl Alcohol [b]	ND	1800	450	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	230	23	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	230	23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	230	23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	230	23	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	230	23	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	230	45	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	23	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	230	45	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	230	45	ug/kg	
127-18-4	Tetrachloroethylene	ND	230	27	ug/kg	
108-88-3	Toluene	ND	230	23	ug/kg	
79-01-6	Trichloroethylene	ND	230	23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	230	45	ug/kg	
75-01-4	Vinyl chloride	ND	230	45	ug/kg	
1330-20-7	Xylene (total)	ND	450	45	ug/kg	
	TPH-GRO (C6-C10)	ND	4500	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-136%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-EW-9'		
Lab Sample ID:	C45685-13	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		88-113%
460-00-4	4-Bromofluorobenzene	97%		79-115%

(a) All results reported on a wet weight basis.
(b) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-EW-9'		
Lab Sample ID:	C45685-13	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T23205.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	0.82	3.3	0.56	ug/kg	J
91-57-6	2-Methylnaphthalene	1.4	3.3	0.40	ug/kg	J
91-20-3	Naphthalene	0.58	3.3	0.50	ug/kg	J
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		10-177%
321-60-8	2-Fluorobiphenyl	63%		41-124%
1718-51-0	Terphenyl-d14	104%		40-149%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-EW-9'		
Lab Sample ID:	C45685-13	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB3233.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.6	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	78%		38-146%

(a) All results reported on a wet weight basis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9669-T3-EW-9'		
Lab Sample ID:	C45685-13	**Date Sampled:**	05/04/16
Matrix:	SO - Soil	**Date Received:**	05/05/16
		Percent Solids:	n/a [a]
Project:	1110 Jackson Street - Oakland, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.91	0.91	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	51.9	0.91	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	3.3	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	33.4	0.91	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	30.4	1.8	mg/kg	1	05/05/16	05/05/16	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA5838
(2) Prep QC Batch: MP11265

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C45685

Client / Reporting Information

Company Name: GOLDEN GATE TANK REMOVAL
Address: 1480 CARROLL AVE.
City: S.F. State: CA Zip: 94124
Project Contact: TIM HALLEN
Phone #: 415 512 1555
Samplers's Name: ASCENSION MORA

Project Information

Project Name:
Street: 1110 JACKSON ST.
City: OAKLAND State: CA
Project #: 9669
EMAIL: TIM@GGTR.COM
Client Purchase Order #

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	BT # of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPH-G + VOCs (Full List) (8260B)	TPH-Diesel/Motor Oil/Kerosene/Min. Spirits	PAHs (8270 SIM)	LUFT 5 Metals (6010B)	LAB USE ONLY
1	9669-TI-EW-8'	5/4/16	11:00	AM	SOil	1									X	X	X	X	
2	9669-TI-C-12'	=	11:05	AM	=	1									X	X	X	X	
3	9669-TI-WW-8'	=	11:10	=	=	1									X	X	X	X	
4	9669-TI-NW-8'	=	11:15	=	=	1									X	X	X	X	
5	9669-T2-EW-6'	=	11:20	=	=	1									X	X	X	X	
6	9669-T2-C-12.5	=	11:25	=	=	1									X	X	X	X	
7	9669-T2-WW-8'	=	11:30	=	=	1									X	X	X	X	
8	9669-T2-SW-8'	=	11:35	=	=	1									X	X	X	X	

1 DAY

Matrix Codes
WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [x] 2 Day
- [x] 1 Day
- [ ] Same Day

Approved By / Date:

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

BT = BRASS TUBE

Emergency T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Ascension Mora	5/4/16 3:30	5/5/16 0820	2	5/5/16 10:10	2 Ali Zeighami
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # NONE	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N	Cooler Temp. 3.1/4.1 oC

4.1 4

C45685: Chain of Custody
Page 1 of 3

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C45685

Client / Reporting Information

Company Name: ETR
Address: 1480 CARROLL Ave
City: SF State: CA Zip: 94124
Project Contact: TIM HALLEN
Phone #: 415 512-1555
Samplers's Name: ASCENSION MORA

Project Information

Project Name:
Street: 1110 JACKSON ST
City: OAKLAND State: CA
Project #: 9669
EMAIL: TIM@ETR.COM
Client Purchase Order #

Requested Analysis

TPH-D (EPA 3550) C8260B (full list) / 12PH-D (4 hour cut) Reduced / NI + SPLP15 PAHs C8270 SIMS / LOFT 5 METALS 6010B

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

LAB USE ONLY

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles								
							HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	
9	9669-T3-WW-8'	5/4/16	11:45	AM	SOIL	1									X
10	9669-T3-C-12'	"	11:50	"	"	1									X
11	9669-T3-SW-6.5	"	11:55	"	"	1									X
12	9669-T3-NW-8'	"	12:00	"	"	1									X
13	9669-T3-EW-8'	"	12:05	"	"	1									X

1 DAY

Turnaround Time (Business days)

Approved By / Date:

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [x] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commercial "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

VP

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	[signature]	5/4/16 3:30	[signature]	2	5/5/16 10:10	2 Ali Zeighami
	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal # Intact	Appropriate Bottle / Pres. Y / N	Headspace Y / N
			5	Labels match Coc? Y / N	Separate Receiving Check List used: Y / N	On Ice Y N Cooler Temp. 2.1/4.1

SGS Accutest Sample Receipt Summary

Job Number: C45685 **Client:** GGTR **Project:** 1110 JACKSON ST

Date / Time Received: 5/5/2016 10:10:00 AM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.1/4.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR3;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C45685: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-MB	L48798.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-MB	L48798.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-MB	L48798.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	80-136%
2037-26-5	Toluene-D8	98%	88-113%
460-00-4	4-Bromofluorobenzene	85%	79-115%

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-MB	M60459.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-MB	M60459.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-MB	M60459.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	80-136%
2037-26-5	Toluene-D8	98%	88-113%
460-00-4	4-Bromofluorobenzene	94%	79-115%

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-MB	L48825.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-MB	L48825.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-MB	L48825.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-136%
2037-26-5	Toluene-D8	92%	88-113%
460-00-4	4-Bromofluorobenzene	91%	79-115%

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-MB	M60532.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-MB	M60532.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-MB	M60532.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	80-136%
2037-26-5	Toluene-D8	93%	88-113%
460-00-4	4-Bromofluorobenzene	100%	79-115%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-BS	L48794.D	1	05/05/16	JT	n/a	n/a	VL1459
VL1459-BSD	L48795.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	252	158* [a]	222	139	13	48-156/30
71-43-2	Benzene	40	42.2	106	41.3	103	2	73-119/20
108-86-1	Bromobenzene	40	39.6	99	39.6	99	0	73-115/18
74-97-5	Bromochloromethane	40	47.3	118	44.7	112	6	76-125/19
75-27-4	Bromodichloromethane	40	40.7	102	40.9	102	0	72-115/20
75-25-2	Bromoform	40	44.4	111	46.1	115	4	74-120/21
104-51-8	n-Butylbenzene	40	40.8	102	38.9	97	5	70-116/21
135-98-8	sec-Butylbenzene	40	40.9	102	38.3	96	7	73-113/21
98-06-6	tert-Butylbenzene	40	40.3	101	37.7	94	7	72-111/20
108-90-7	Chlorobenzene	40	39.1	98	40.9	102	4	73-109/19
75-00-3	Chloroethane	40	53.6	134* [a]	50.8	127	5	67-127/21
67-66-3	Chloroform	40	44.5	111	42.2	106	5	71-121/19
95-49-8	o-Chlorotoluene	40	40.9	102	38.6	97	6	71-114/21
106-43-4	p-Chlorotoluene	40	38.9	97	39.1	98	1	65-120/26
56-23-5	Carbon tetrachloride	40	44.1	110	40.6	102	8	72-121/23
75-34-3	1,1-Dichloroethane	40	45.3	113	41.9	105	8	71-118/19
75-35-4	1,1-Dichloroethylene	40	43.9	110	39.1	98	12	69-118/22
563-58-6	1,1-Dichloropropene	40	41.2	103	39.2	98	5	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	51.6	129* [a]	46.1	115	11	63-123/26
106-93-4	1,2-Dibromoethane	40	41.4	104	39.6	99	4	73-117/18
107-06-2	1,2-Dichloroethane	40	44.7	112	44.0	110	2	71-118/20
78-87-5	1,2-Dichloropropane	40	42.0	105	42.4	106	1	73-120/19
142-28-9	1,3-Dichloropropane	40	42.3	106	39.4	99	7	75-120/18
108-20-3	Di-Isopropyl ether	40	44.2	111	42.1	105	5	68-127/19
594-20-7	2,2-Dichloropropane	40	48.0	120	39.9	100	18	66-122/25
124-48-1	Dibromochloromethane	40	40.8	102	38.6	97	6	73-116/20
75-71-8	Dichlorodifluoromethane	40	41.9	105	37.9	95	10	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	46.6	117	43.6	109	7	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	41.6	104	43.9	110	5	74-126/17
541-73-1	m-Dichlorobenzene	40	39.7	99	39.1	98	2	71-113/19
95-50-1	o-Dichlorobenzene	40	41.5	104	39.8	100	4	72-115/19
106-46-7	p-Dichlorobenzene	40	39.9	100	39.3	98	2	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	41.2	103	38.7	97	6	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	38.8	97	36.3	91	7	72-113/18
100-41-4	Ethylbenzene	40	40.0	100	41.3	103	3	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	46.0	115	42.8	107	7	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-BS	L48794.D	1	05/05/16	JT	n/a	n/a	VL1459
VL1459-BSD	L48795.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	204	128	178	111	14	40-152/26
87-68-3	Hexachlorobutadiene	40	39.5	99	37.5	94	5	72-121/26
98-82-8	Isopropylbenzene	40	41.4	104	40.5	101	2	74-112/22
99-87-6	p-Isopropyltoluene	40	40.9	102	38.6	97	6	72-114/21
108-10-1	4-Methyl-2-pentanone	160	204	128	197	123	3	50-144/28
74-83-9	Methyl bromide	40	49.0	123	45.9	115	7	73-130/20
74-87-3	Methyl chloride	40	49.6	124	47.2	118	5	57-124/31
74-95-3	Methylene bromide	40	43.8	110	43.2	108	1	76-121/20
75-09-2	Methylene chloride	40	43.9	110	39.9	100	10	72-119/19
78-93-3	Methyl ethyl ketone	160	220	138	204	128	8	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	46.1	115	42.0	105	9	68-118/22
91-20-3	Naphthalene	40	47.9	120	43.3	108	10	67-132/22
103-65-1	n-Propylbenzene	40	38.4	96	36.5	91	5	71-110/19
100-42-5	Styrene	40	40.1	100	42.2	106	5	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	48.5	121	45.0	113	7	67-126/21
75-65-0	Tert Butyl Alcohol	200	292	146	245	123	18	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	43.2	108	42.4	106	2	75-114/22
71-55-6	1,1,1-Trichloroethane	40	47.2	118	42.4	106	11	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	44.8	112	42.5	106	5	72-121/19
79-00-5	1,1,2-Trichloroethane	40	41.3	103	39.8	100	4	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	44.5	111	40.8	102	9	68-125/24
96-18-4	1,2,3-Trichloropropane	40	48.3	121* [a]	48.6	122* [a]	1	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	42.6	107	40.2	101	6	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	40.6	102	38.7	97	5	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	41.4	104	38.9	97	6	72-113/20
127-18-4	Tetrachloroethylene	40	41.9	105	40.6	102	3	68-120/20
108-88-3	Toluene	40	38.9	97	35.5	89	9	75-111/20
79-01-6	Trichloroethylene	40	41.7	104	41.2	103	1	72-120/20
75-69-4	Trichlorofluoromethane	40	53.5	134	50.1	125	7	71-136/21
75-01-4	Vinyl chloride	40	45.8	115	44.0	110	4	61-131/24
1330-20-7	Xylene (total)	120	120	100	123	103	2	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	114%	108%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-BS	L48794.D	1	05/05/16	JT	n/a	n/a	VL1459
VL1459-BSD	L48795.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	96%	95%	88-113%
460-00-4	4-Bromofluorobenzene	99%	105%	79-115%

(a) Outside laboratory control limits (high bias); not detected in associated samples. AZ:L1

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-BS	M60456.D	1	05/06/16	JT	n/a	n/a	VM1816
VM1816-BSD	M60457.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	137	86	133	83	3	48-156/30
71-43-2	Benzene	40	39.9	100	41.6	104	4	73-119/20
108-86-1	Bromobenzene	40	38.3	96	40.0	100	4	73-115/18
74-97-5	Bromochloromethane	40	40.1	100	42.8	107	7	76-125/19
75-27-4	Bromodichloromethane	40	38.4	96	40.0	100	4	72-115/20
75-25-2	Bromoform	40	40.6	102	41.5	104	2	74-120/21
104-51-8	n-Butylbenzene	40	37.7	94	40.0	100	6	70-116/21
135-98-8	sec-Butylbenzene	40	37.7	94	39.8	100	5	73-113/21
98-06-6	tert-Butylbenzene	40	38.0	95	40.4	101	6	72-111/20
108-90-7	Chlorobenzene	40	38.9	97	40.4	101	4	73-109/19
75-00-3	Chloroethane	40	43.2	108	44.2	111	2	67-127/21
67-66-3	Chloroform	40	38.5	96	40.7	102	6	71-121/19
95-49-8	o-Chlorotoluene	40	36.6	92	38.8	97	6	71-114/21
106-43-4	p-Chlorotoluene	40	37.4	94	39.5	99	5	65-120/26
56-23-5	Carbon tetrachloride	40	37.9	95	40.8	102	7	72-121/23
75-34-3	1,1-Dichloroethane	40	38.9	97	41.5	104	6	71-118/19
75-35-4	1,1-Dichloroethylene	40	37.3	93	38.9	97	4	69-118/22
563-58-6	1,1-Dichloropropene	40	37.2	93	39.4	99	6	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	36.3	91	39.2	98	8	63-123/26
106-93-4	1,2-Dibromoethane	40	38.5	96	39.1	98	2	73-117/18
107-06-2	1,2-Dichloroethane	40	38.4	96	39.8	100	4	71-118/20
78-87-5	1,2-Dichloropropane	40	40.3	101	42.1	105	4	73-120/19
142-28-9	1,3-Dichloropropane	40	39.7	99	40.2	101	1	75-120/18
108-20-3	Di-Isopropyl ether	40	38.0	95	40.3	101	6	68-127/19
594-20-7	2,2-Dichloropropane	40	36.9	92	40.2	101	9	66-122/25
124-48-1	Dibromochloromethane	40	38.1	95	39.9	100	5	73-116/20
75-71-8	Dichlorodifluoromethane	40	34.7	87	36.0	90	4	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	42.1	105	44.8	112	6	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	42.3	106	42.7	107	1	74-126/17
541-73-1	m-Dichlorobenzene	40	37.8	95	40.4	101	7	71-113/19
95-50-1	o-Dichlorobenzene	40	38.0	95	40.5	101	6	72-115/19
106-46-7	p-Dichlorobenzene	40	37.9	95	39.9	100	5	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	36.1	90	38.4	96	6	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	38.3	96	39.4	99	3	72-113/18
100-41-4	Ethylbenzene	40	39.3	98	41.0	103	4	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	38.0	95	41.0	103	8	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-BS	M60456.D	1	05/06/16	JT	n/a	n/a	VM1816
VM1816-BSD	M60457.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	171	107	167	104	2	40-152/26
87-68-3	Hexachlorobutadiene	40	36.2	91	40.7	102	12	72-121/26
98-82-8	Isopropylbenzene	40	40.1	100	42.1	105	5	74-112/22
99-87-6	p-Isopropyltoluene	40	38.0	95	40.3	101	6	72-114/21
108-10-1	4-Methyl-2-pentanone	160	173	108	171	107	1	50-144/28
74-83-9	Methyl bromide	40	40.4	101	41.6	104	3	73-130/20
74-87-3	Methyl chloride	40	43.3	108	44.1	110	2	57-124/31
74-95-3	Methylene bromide	40	40.0	100	41.0	103	2	76-121/20
75-09-2	Methylene chloride	40	37.7	94	40.4	101	7	72-119/19
78-93-3	Methyl ethyl ketone	160	174	109	172	108	1	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	36.9	92	38.8	97	5	68-118/22
91-20-3	Naphthalene	40	37.9	95	41.7	104	10	67-132/22
103-65-1	n-Propylbenzene	40	36.5	91	38.4	96	5	71-110/19
100-42-5	Styrene	40	40.6	102	41.8	105	3	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	40.6	102	42.9	107	6	67-126/21
75-65-0	Tert Butyl Alcohol	200	228	114	227	114	0	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	38.8	97	41.7	104	7	75-114/22
71-55-6	1,1,1-Trichloroethane	40	38.7	97	41.1	103	6	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	38.8	97	41.0	103	6	72-121/19
79-00-5	1,1,2-Trichloroethane	40	39.0	98	40.3	101	3	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	37.1	93	41.3	103	11	68-125/24
96-18-4	1,2,3-Trichloropropane	40	40.2	101	40.7	102	1	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	38.0	95	41.6	104	9	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	37.2	93	39.7	99	7	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	37.9	95	40.2	101	6	72-113/20
127-18-4	Tetrachloroethylene	40	37.2	93	38.4	96	3	68-120/20
108-88-3	Toluene	40	38.4	96	40.7	102	6	75-111/20
79-01-6	Trichloroethylene	40	40.1	100	42.1	105	5	72-120/20
75-69-4	Trichlorofluoromethane	40	42.0	105	42.5	106	1	71-136/21
75-01-4	Vinyl chloride	40	44.8	112	45.6	114	2	61-131/24
1330-20-7	Xylene (total)	120	118	98	123	103	4	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	102%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-BS	M60456.D	1	05/06/16	JT	n/a	n/a	VM1816
VM1816-BSD	M60457.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	96%	99%	88-113%
460-00-4	4-Bromofluorobenzene	102%	101%	79-115%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-BS	L48822.D	1	05/06/16	JT	n/a	n/a	VL1460
VL1460-BSD	L48823.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	169	106	154	96	9	48-156/30
71-43-2	Benzene	40	41.8	105	38.3	96	9	73-119/20
108-86-1	Bromobenzene	40	44.4	111	40.7	102	9	73-115/18
74-97-5	Bromochloromethane	40	46.2	116	41.5	104	11	76-125/19
75-27-4	Bromodichloromethane	40	40.7	102	36.9	92	10	72-115/20
75-25-2	Bromoform	40	47.2	118	42.9	107	10	74-120/21
104-51-8	n-Butylbenzene	40	40.2	101	37.3	93	7	70-116/21
135-98-8	sec-Butylbenzene	40	41.0	103	38.4	96	7	73-113/21
98-06-6	tert-Butylbenzene	40	41.9	105	39.1	98	7	72-111/20
108-90-7	Chlorobenzene	40	43.0	108	40.0	100	7	73-109/19
75-00-3	Chloroethane	40	43.2	108	40.3	101	7	67-127/21
67-66-3	Chloroform	40	40.7	102	37.4	94	8	71-121/19
95-49-8	o-Chlorotoluene	40	39.3	98	36.3	91	8	71-114/21
106-43-4	p-Chlorotoluene	40	39.4	99	36.5	91	8	65-120/26
56-23-5	Carbon tetrachloride	40	42.9	107	39.6	99	8	72-121/23
75-34-3	1,1-Dichloroethane	40	39.1	98	35.8	90	9	71-118/19
75-35-4	1,1-Dichloroethylene	40	40.0	100	37.2	93	7	69-118/22
563-58-6	1,1-Dichloropropene	40	39.5	99	37.1	93	6	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	38.5	96	35.8	90	7	63-123/26
106-93-4	1,2-Dibromoethane	40	42.3	106	39.1	98	8	73-117/18
107-06-2	1,2-Dichloroethane	40	41.7	104	38.1	95	9	71-118/20
78-87-5	1,2-Dichloropropane	40	40.1	100	37.6	94	6	73-120/19
142-28-9	1,3-Dichloropropane	40	41.2	103	38.4	96	7	75-120/18
108-20-3	Di-Isopropyl ether	40	35.5	89	32.2	81	10	68-127/19
594-20-7	2,2-Dichloropropane	40	41.1	103	37.6	94	9	66-122/25
124-48-1	Dibromochloromethane	40	43.9	110	40.0	100	9	73-116/20
75-71-8	Dichlorodifluoromethane	40	35.7	89	32.8	82	8	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	44.7	112	40.5	101	10	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	42.6	107	39.0	98	9	74-126/17
541-73-1	m-Dichlorobenzene	40	43.7	109	40.0	100	9	71-113/19
95-50-1	o-Dichlorobenzene	40	43.8	110	40.0	100	9	72-115/19
106-46-7	p-Dichlorobenzene	40	43.5	109	40.1	100	8	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	38.6	97	36.2	91	6	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	39.8	100	36.0	90	10	72-113/18
100-41-4	Ethylbenzene	40	41.6	104	38.9	97	7	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	38.3	96	34.4	86	11	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-BS	L48822.D	1	05/06/16	JT	n/a	n/a	VL1460
VL1460-BSD	L48823.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	147	92	144	90	2	40-152/26
87-68-3	Hexachlorobutadiene	40	46.8	117	43.5	109	7	72-121/26
98-82-8	Isopropylbenzene	40	43.2	108	40.1	100	7	74-112/22
99-87-6	p-Isopropyltoluene	40	42.1	105	39.3	98	7	72-114/21
108-10-1	4-Methyl-2-pentanone	160	179	112	172	108	4	50-144/28
74-83-9	Methyl bromide	40	43.1	108	39.2	98	9	73-130/20
74-87-3	Methyl chloride	40	50.3	126* [a]	46.9	117	7	57-124/31
74-95-3	Methylene bromide	40	42.7	107	38.4	96	11	76-121/20
75-09-2	Methylene chloride	40	38.1	95	35.0	88	8	72-119/19
78-93-3	Methyl ethyl ketone	160	163	102	151	94	8	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	37.9	95	34.3	86	10	68-118/22
91-20-3	Naphthalene	40	41.3	103	39.2	98	5	67-132/22
103-65-1	n-Propylbenzene	40	37.6	94	35.3	88	6	71-110/19
100-42-5	Styrene	40	43.9	110	40.5	101	8	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	40.8	102	36.8	92	10	67-126/21
75-65-0	Tert Butyl Alcohol	200	186	93	173	87	7	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	45.5	114	40.6	102	11	75-114/22
71-55-6	1,1,1-Trichloroethane	40	42.2	106	39.1	98	8	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	38.3	96	35.7	89	7	72-121/19
79-00-5	1,1,2-Trichloroethane	40	40.6	102	37.9	95	7	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	45.1	113	41.3	103	9	68-125/24
96-18-4	1,2,3-Trichloropropane	40	43.8	110	40.4	101	8	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	45.5	114	41.8	105	8	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	40.9	102	37.3	93	9	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	40.8	102	37.7	94	8	72-113/20
127-18-4	Tetrachloroethylene	40	46.7	117	44.9	112	4	68-120/20
108-88-3	Toluene	40	40.5	101	37.9	95	7	75-111/20
79-01-6	Trichloroethylene	40	43.2	108	40.3	101	7	72-120/20
75-69-4	Trichlorofluoromethane	40	44.9	112	42.2	106	6	71-136/21
75-01-4	Vinyl chloride	40	48.5	121	45.7	114	6	61-131/24
1330-20-7	Xylene (total)	120	129	108	119	99	8	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-BS	L48822.D	1	05/06/16	JT	n/a	n/a	VL1460
VL1460-BSD	L48823.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	93%	95%	88-113%
460-00-4	4-Bromofluorobenzene	93%	95%	79-115%

(a) Outside laboratory control limits (high bias); not detected in associated samples.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-BS	M60529.D	1	05/10/16	JT	n/a	n/a	VM1819
VM1819-BSD	M60530.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	108	68	134	84	21	48-156/30
71-43-2	Benzene	40	37.6	94	39.2	98	4	73-119/20
108-86-1	Bromobenzene	40	32.6	82	35.4	89	8	73-115/18
74-97-5	Bromochloromethane	40	39.4	99	41.3	103	5	76-125/19
75-27-4	Bromodichloromethane	40	35.9	90	38.1	95	6	72-115/20
75-25-2	Bromoform	40	35.4	89	38.7	97	9	74-120/21
104-51-8	n-Butylbenzene	40	31.8	80	34.3	86	8	70-116/21
135-98-8	sec-Butylbenzene	40	32.5	81	34.6	87	6	73-113/21
98-06-6	tert-Butylbenzene	40	32.3	81	34.9	87	8	72-111/20
108-90-7	Chlorobenzene	40	34.2	86	36.8	92	7	73-109/19
75-00-3	Chloroethane	40	42.1	105	43.8	110	4	67-127/21
67-66-3	Chloroform	40	38.0	95	39.0	98	3	71-121/19
95-49-8	o-Chlorotoluene	40	30.7	77	34.2	86	11	71-114/21
106-43-4	p-Chlorotoluene	40	33.3	83	34.2	86	3	65-120/26
56-23-5	Carbon tetrachloride	40	36.9	92	37.0	93	0	72-121/23
75-34-3	1,1-Dichloroethane	40	38.5	96	39.4	99	2	71-118/19
75-35-4	1,1-Dichloroethylene	40	36.2	91	36.3	91	0	69-118/22
563-58-6	1,1-Dichloropropene	40	35.9	90	36.5	91	2	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	40	33.4	84	36.4	91	9	63-123/26
106-93-4	1,2-Dibromoethane	40	33.8	85	37.5	94	10	73-117/18
107-06-2	1,2-Dichloroethane	40	36.8	92	39.1	98	6	71-118/20
78-87-5	1,2-Dichloropropane	40	37.0	93	39.8	100	7	73-120/19
142-28-9	1,3-Dichloropropane	40	35.6	89	38.6	97	8	75-120/18
108-20-3	Di-Isopropyl ether	40	37.2	93	38.8	97	4	68-127/19
594-20-7	2,2-Dichloropropane	40	36.8	92	36.3	91	1	66-122/25
124-48-1	Dibromochloromethane	40	34.1	85	36.6	92	7	73-116/20
75-71-8	Dichlorodifluoromethane	40	33.8	85	34.9	87	3	56-118/26
156-59-2	cis-1,2-Dichloroethylene	40	41.5	104	42.9	107	3	73-128/19
10061-01-5	cis-1,3-Dichloropropene	40	37.6	94	42.5	106	12	74-126/17
541-73-1	m-Dichlorobenzene	40	32.1	80	34.6	87	7	71-113/19
95-50-1	o-Dichlorobenzene	40	33.0	83	35.1	88	6	72-115/19
106-46-7	p-Dichlorobenzene	40	32.7	82	35.1	88	7	72-113/18
156-60-5	trans-1,2-Dichloroethylene	40	35.5	89	36.2	91	2	67-112/20
10061-02-6	trans-1,3-Dichloropropene	40	34.3	86	37.4	94	9	72-113/18
100-41-4	Ethylbenzene	40	34.3	86	36.4	91	6	75-112/21
637-92-3	Ethyl tert-Butyl Ether	40	37.4	94	39.0	98	4	67-124/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-BS	M60529.D	1	05/10/16	JT	n/a	n/a	VM1819
VM1819-BSD	M60530.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	160	146	91	171	107	16	40-152/26
87-68-3	Hexachlorobutadiene	40	33.4	84	33.9	85	1	72-121/26
98-82-8	Isopropylbenzene	40	34.7	87	36.3	91	5	74-112/22
99-87-6	p-Isopropyltoluene	40	32.4	81	34.5	86	6	72-114/21
108-10-1	4-Methyl-2-pentanone	160	154	96	182	114	17	50-144/28
74-83-9	Methyl bromide	40	39.7	99	40.8	102	3	73-130/20
74-87-3	Methyl chloride	40	40.7	102	42.2	106	4	57-124/31
74-95-3	Methylene bromide	40	37.7	94	41.0	103	8	76-121/20
75-09-2	Methylene chloride	40	37.9	95	38.2	96	1	72-119/19
78-93-3	Methyl ethyl ketone	160	145	91	183	114	23	52-145/27
1634-04-4	Methyl Tert Butyl Ether	40	36.1	90	38.1	95	5	68-118/22
91-20-3	Naphthalene	40	34.7	87	37.6	94	8	67-132/22
103-65-1	n-Propylbenzene	40	30.8	77	33.1	83	7	71-110/19
100-42-5	Styrene	40	34.8	87	37.2	93	7	73-112/19
994-05-8	Tert-Amyl Methyl Ether	40	39.2	98	41.4	104	5	67-126/21
75-65-0	Tert Butyl Alcohol	200	198	99	245	123	21	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	40	35.7	89	36.2	91	1	75-114/22
71-55-6	1,1,1-Trichloroethane	40	37.9	95	38.4	96	1	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	40	34.1	85	37.7	94	10	72-121/19
79-00-5	1,1,2-Trichloroethane	40	35.9	90	38.4	96	7	70-120/18
87-61-6	1,2,3-Trichlorobenzene	40	34.3	86	36.2	91	5	68-125/24
96-18-4	1,2,3-Trichloropropane	40	34.9	87	38.9	97	11	75-119/19
120-82-1	1,2,4-Trichlorobenzene	40	33.1	83	35.2	88	6	70-123/23
95-63-6	1,2,4-Trimethylbenzene	40	31.8	80	34.2	86	7	71-112/19
108-67-8	1,3,5-Trimethylbenzene	40	32.3	81	34.3	86	6	72-113/20
127-18-4	Tetrachloroethylene	40	35.5	89	35.8	90	1	68-120/20
108-88-3	Toluene	40	34.6	87	36.1	90	4	75-111/20
79-01-6	Trichloroethylene	40	37.2	93	38.5	96	3	72-120/20
75-69-4	Trichlorofluoromethane	40	40.5	101	41.5	104	2	71-136/21
75-01-4	Vinyl chloride	40	41.7	104	42.8	107	3	61-131/24
1330-20-7	Xylene (total)	120	103	86	109	91	6	73-110/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	103%	101%	80-136%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-BS	M60529.D	1	05/10/16	JT	n/a	n/a	VM1819
VM1819-BSD	M60530.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	96%	93%	88-113%
460-00-4	4-Bromofluorobenzene	101%	101%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1459-LCS	L48797.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	265	106	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	80-136%
2037-26-5	Toluene-D8	106%	88-113%
460-00-4	4-Bromofluorobenzene	107%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1460-LCS	L48824.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	234	94	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-136%
2037-26-5	Toluene-D8	94%	88-113%
460-00-4	4-Bromofluorobenzene	93%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1816-LCS	M60458.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	253	101	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-136%
2037-26-5	Toluene-D8	97%	88-113%
460-00-4	4-Bromofluorobenzene	95%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-LCS	M60531.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-11

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	235	94	70-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	80-136%
2037-26-5	Toluene-D8	96%	88-113%
460-00-4	4-Bromofluorobenzene	98%	79-115%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45685-9MS	L48814.D	1	05/05/16	JT	n/a	n/a	VL1459
C45685-9MSD	L48815.D	1	05/05/16	JT	n/a	n/a	VL1459
C45685-9 [a]	L48809.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	C45685-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		7080	8870	125	7080	8220	116	8	48-156/30
71-43-2	Benzene	ND		1770	1780	101	1770	1770	100	1	73-119/20
108-86-1	Bromobenzene	ND		1770	1880	106	1770	1840	104	2	73-115/18
74-97-5	Bromochloromethane	ND		1770	1870	106	1770	1890	107	1	76-125/19
75-27-4	Bromodichloromethane	ND		1770	1670	94	1770	1670	94	0	72-115/20
75-25-2	Bromoform	ND		1770	1790	101	1770	1800	102	1	74-120/21
104-51-8	n-Butylbenzene	ND		1770	1760	99	1770	1750	99	1	70-116/21
135-98-8	sec-Butylbenzene	ND		1770	1800	102	1770	1780	101	1	73-113/21
98-06-6	tert-Butylbenzene	ND		1770	1830	103	1770	1820	103	1	72-111/20
108-90-7	Chlorobenzene	ND		1770	1810	102	1770	1820	103	1	73-109/19
75-00-3	Chloroethane	ND		1770	2330	132* [b]	1770	2300	130* [b]	1	67-127/21
67-66-3	Chloroform	ND		1770	1630	92	1770	1660	94	2	71-121/19
95-49-8	o-Chlorotoluene	ND		1770	1830	103	1770	1790	101	2	71-114/21
106-43-4	p-Chlorotoluene	ND		1770	1840	104	1770	1840	104	0	65-120/26
56-23-5	Carbon tetrachloride	ND		1770	1660	94	1770	1660	94	0	72-121/23
75-34-3	1,1-Dichloroethane	ND		1770	1620	92	1770	2030	115	22* [c]	71-118/19
75-35-4	1,1-Dichloroethylene	ND		1770	1870	106	1770	1900	107	2	69-118/22
563-58-6	1,1-Dichloropropene	ND		1770	1620	92	1770	1630	92	1	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		1770	1790	101	1770	1740	98	3	63-123/26
106-93-4	1,2-Dibromoethane	ND		1770	1800	102	1770	1820	103	1	73-117/18
107-06-2	1,2-Dichloroethane	ND		1770	1690	95	1770	1680	95	1	71-118/20
78-87-5	1,2-Dichloropropane	ND		1770	1780	101	1770	1770	100	1	73-120/19
142-28-9	1,3-Dichloropropane	ND		1770	1930	109	1770	1950	110	1	75-120/18
108-20-3	Di-Isopropyl ether	ND		1770	1530	86	1770	2050	116	29* [c]	68-127/19
594-20-7	2,2-Dichloropropane	ND		1770	1440	81	1770	1560	88	8	66-122/25
124-48-1	Dibromochloromethane	ND		1770	1750	99	1770	1790	101	2	73-116/20
75-71-8	Dichlorodifluoromethane	ND		1770	1650	93	1770	1660	94	1	56-118/26
156-59-2	cis-1,2-Dichloroethylene	ND		1770	1850	105	1770	1950	110	5	73-128/19
10061-01-5	cis-1,3-Dichloropropene	ND		1770	2150	121	1770	2140	121	0	74-126/17
541-73-1	m-Dichlorobenzene	ND		1770	1810	102	1770	1790	101	1	71-113/19
95-50-1	o-Dichlorobenzene	ND		1770	1840	104	1770	1830	103	1	72-115/19
106-46-7	p-Dichlorobenzene	ND		1770	1810	102	1770	1790	101	1	72-113/18
156-60-5	trans-1,2-Dichloroethylene	ND		1770	1640	93	1770	1880	106	14	67-112/20
10061-02-6	trans-1,3-Dichloropropene	ND		1770	1750	99	1770	1780	101	2	72-113/18
100-41-4	Ethylbenzene	ND		1770	1800	102	1770	1840	104	2	75-112/21
637-92-3	Ethyl tert-Butyl Ether	ND		1770	1630	92	1770	2030	115	22* [c]	67-124/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45685-9MS	L48814.D	1	05/05/16	JT	n/a	n/a	VL1459
C45685-9MSD	L48815.D	1	05/05/16	JT	n/a	n/a	VL1459
C45685-9 [a]	L48809.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Compound	C45685-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		7080	7730	109	7080	7690	109	1	40-152/26
87-68-3	Hexachlorobutadiene	ND		1770	1700	96	1770	1730	98	2	72-121/26
98-82-8	Isopropylbenzene	ND		1770	1780	101	1770	1810	102	2	74-112/22
99-87-6	p-Isopropyltoluene	ND		1770	1790	101	1770	1790	101	0	72-114/21
108-10-1	4-Methyl-2-pentanone	ND		7080	8810	124	7080	8680	123	1	50-144/28
74-83-9	Methyl bromide	ND		1770	2090	118	1770	2050	116	2	73-130/20
74-87-3	Methyl chloride	ND		1770	2170	123	1770	2150	121	1	57-124/31
74-95-3	Methylene bromide	ND		1770	1770	100	1770	1770	100	0	76-121/20
75-09-2	Methylene chloride	ND		1770	1940	110	1770	1970	111	2	72-119/19
78-93-3	Methyl ethyl ketone	ND		7080	7310	103	7080	8500	120	15	52-145/27
1634-04-4	Methyl Tert Butyl Ether	ND		1770	1710	97	1770	1910	108	11	68-118/22
91-20-3	Naphthalene	ND		1770	1830	103	1770	1810	102	1	67-132/22
103-65-1	n-Propylbenzene	ND		1770	1720	97	1770	1710	97	1	71-110/19
100-42-5	Styrene	ND		1770	1830	103	1770	1870	106	2	73-112/19
994-05-8	Tert-Amyl Methyl Ether	ND		1770	1710	97	1770	1730	98	1	67-126/21
75-65-0	Tert Butyl Alcohol	ND		8850	9590	108	8850	9340	106	3	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		1770	1850	105	1770	1880	106	2	75-114/22
71-55-6	1,1,1-Trichloroethane	ND		1770	1620	92	1770	1650	93	2	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	ND		1770	1910	108	1770	1860	105	3	72-121/19
79-00-5	1,1,2-Trichloroethane	ND		1770	1870	106	1770	1900	107	2	70-120/18
87-61-6	1,2,3-Trichlorobenzene	ND		1770	1810	102	1770	1800	102	1	68-125/24
96-18-4	1,2,3-Trichloropropane	ND		1770	1880	106	1770	1910	108	2	75-119/19
120-82-1	1,2,4-Trichlorobenzene	ND		1770	1750	99	1770	1740	98	1	70-123/23
95-63-6	1,2,4-Trimethylbenzene	ND		1770	1800	102	1770	1790	101	1	71-112/19
108-67-8	1,3,5-Trimethylbenzene	ND		1770	1840	104	1770	1810	102	2	72-113/20
127-18-4	Tetrachloroethylene	ND		1770	1830	103	1770	1790	101	2	68-120/20
108-88-3	Toluene	ND		1770	1780	101	1770	1800	102	1	75-111/20
79-01-6	Trichloroethylene	ND		1770	1780	101	1770	1760	99	1	72-120/20
75-69-4	Trichlorofluoromethane	ND		1770	2130	120	1770	2150	121	1	71-136/21
75-01-4	Vinyl chloride	ND		1770	1370	77	1770	1360	77	1	61-131/24
1330-20-7	Xylene (total)	ND		5310	5400	102	5310	5480	103	1	73-110/20

CAS No.	Surrogate Recoveries	MS	MSD	C45685-9	Limits
1868-53-7	Dibromofluoromethane	93%	94%		80-136%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45685-9MS	L48814.D	1	05/05/16	JT	n/a	n/a	VL1459
C45685-9MSD	L48815.D	1	05/05/16	JT	n/a	n/a	VL1459
C45685-9 [a]	L48809.D	1	05/05/16	JT	n/a	n/a	VL1459

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-10, C45685-12, C45685-13

CAS No.	Surrogate Recoveries	MS	MSD	C45685-9	Limits
2037-26-5	Toluene-D8	98%	100%		88-113%
460-00-4	4-Bromofluorobenzene	98%	99%		79-115%

(a) Sample used for QC purposes only.
(b) Outside laboratory control limits. AZ:L1
(c) RPD exceeded laboratory acceptance limit; MS/MSD recoveries met acceptance criteria. AZ:R5

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45586-1MS	M60475.D	1	05/06/16	JT	n/a	n/a	VM1816
C45586-1MSD	M60476.D	1	05/06/16	JT	n/a	n/a	VM1816
C45586-1	M60462.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	C45586-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2000	U	7870	4780	61	7870	4650	59	3	48-156/30
71-43-2	Benzene	250	U	1970	2150	109	1970	2190	111	2	73-119/20
108-86-1	Bromobenzene	250	U	1970	2230	113	1970	2220	113	0	73-115/18
74-97-5	Bromochloromethane	250	U	1970	2070	105	1970	2040	104	1	76-125/19
75-27-4	Bromodichloromethane	250	U	1970	2000	102	1970	2030	103	1	72-115/20
75-25-2	Bromoform	250	U	1970	2010	102	1970	1960	100	3	74-120/21
104-51-8	n-Butylbenzene	250	U	1970	2020	103	1970	2020	103	0	70-116/21
135-98-8	sec-Butylbenzene	250	U	1970	2110	107	1970	2140	109	1	73-113/21
98-06-6	tert-Butylbenzene	250	U	1970	2120	108	1970	2140	109	1	72-111/20
108-90-7	Chlorobenzene	250	U	1970	2140	109	1970	2140	109	0	73-109/19
75-00-3	Chloroethane	250	U	1970	2310	117	1970	2300	117	0	67-127/21
67-66-3	Chloroform	250	U	1970	2020	103	1970	2000	102	1	71-121/19
95-49-8	o-Chlorotoluene	250	U	1970	2030	103	1970	2100	107	3	71-114/21
106-43-4	p-Chlorotoluene	250	U	1970	2180	111	1970	2200	112	1	65-120/26
56-23-5	Carbon tetrachloride	250	U	1970	1980	101	1970	2000	102	1	72-121/23
75-34-3	1,1-Dichloroethane	250	U	1970	2060	105	1970	2050	104	0	71-118/19
75-35-4	1,1-Dichloroethylene	250	U	1970	1980	101	1970	1960	100	1	69-118/22
563-58-6	1,1-Dichloropropene	250	U	1970	2000	102	1970	2050	104	2	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	250	U	1970	1800	91	1970	1760	89	2	63-123/26
106-93-4	1,2-Dibromoethane	250	U	1970	2040	104	1970	2040	104	0	73-117/18
107-06-2	1,2-Dichloroethane	250	U	1970	2000	102	1970	1990	101	1	71-118/20
78-87-5	1,2-Dichloropropane	250	U	1970	2180	111	1970	2240	114	3	73-120/19
142-28-9	1,3-Dichloropropane	250	U	1970	2200	112	1970	2180	111	1	75-120/18
108-20-3	Di-Isopropyl ether	250	U	1970	2040	104	1970	2030	103	0	68-127/19
594-20-7	2,2-Dichloropropane	250	U	1970	1750	89	1970	1810	92	3	66-122/25
124-48-1	Dibromochloromethane	250	U	1970	2020	103	1970	2020	103	0	73-116/20
75-71-8	Dichlorodifluoromethane	250	U	1970	1770	90	1970	1770	90	0	56-118/26
156-59-2	cis-1,2-Dichloroethylene	250	U	1970	2220	113	1970	2230	113	0	73-128/19
10061-01-5	cis-1,3-Dichloropropene	250	U	1970	2230	113	1970	2270	115	2	74-126/17
541-73-1	m-Dichlorobenzene	250	U	1970	2080	106	1970	2110	107	1	71-113/19
95-50-1	o-Dichlorobenzene	250	U	1970	2080	106	1970	2070	105	0	72-115/19
106-46-7	p-Dichlorobenzene	250	U	1970	2090	106	1970	2130	108	2	72-113/18
156-60-5	trans-1,2-Dichloroethylene	250	U	1970	1900	97	1970	1910	97	1	67-112/20
10061-02-6	trans-1,3-Dichloropropene	250	U	1970	2060	105	1970	2090	106	1	72-113/18
100-41-4	Ethylbenzene	250	U	1970	2100	107	1970	2110	107	0	75-112/21
637-92-3	Ethyl tert-Butyl Ether	250	U	1970	2020	103	1970	2010	102	0	67-124/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45586-1MS	M60475.D	1	05/06/16	JT	n/a	n/a	VM1816
C45586-1MSD	M60476.D	1	05/06/16	JT	n/a	n/a	VM1816
C45586-1	M60462.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Compound	C45586-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	332	J	7870	8950	109	7870	8890	109	1	40-152/26
87-68-3	Hexachlorobutadiene	250 U		1970	2050	104	1970	2060	105	0	72-121/26
98-82-8	Isopropylbenzene	250 U		1970	2060	105	1970	2050	104	0	74-112/22
99-87-6	p-Isopropyltoluene	250 U		1970	2080	106	1970	2120	108	2	72-114/21
108-10-1	4-Methyl-2-pentanone	980 U		7870	8030	102	7870	8090	103	1	50-144/28
74-83-9	Methyl bromide	250 U		1970	2160	110	1970	2150	109	0	73-130/20
74-87-3	Methyl chloride	250 U		1970	2250	114	1970	2240	114	0	57-124/31
74-95-3	Methylene bromide	250 U		1970	2050	104	1970	2070	105	1	76-121/20
75-09-2	Methylene chloride	980 U		1970	2020	103	1970	2000	102	1	72-119/19
78-93-3	Methyl ethyl ketone	980 U		7870	7380	94	7870	7390	94	0	52-145/27
1634-04-4	Methyl Tert Butyl Ether	250 U		1970	1870	95	1970	1840	93	2	68-118/22
91-20-3	Naphthalene	250 U		1970	2020	103	1970	2010	102	0	67-132/22
103-65-1	n-Propylbenzene	250 U		1970	2070	105	1970	2090	106	1	71-110/19
100-42-5	Styrene	250 U		1970	2200	112	1970	2190	111	0	73-112/19
994-05-8	Tert-Amyl Methyl Ether	250 U		1970	2080	106	1970	2030	103	2	67-126/21
75-65-0	Tert Butyl Alcohol	2000 U		9840	8960	91	9840	9160	93	2	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	250 U		1970	2040	104	1970	2030	103	0	75-114/22
71-55-6	1,1,1-Trichloroethane	250 U		1970	1960	100	1970	1990	101	2	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	250 U		1970	351	18* [a]	1970	277	14* [a]	24* [a]	72-121/19
79-00-5	1,1,2-Trichloroethane	250 U		1970	2110	107	1970	2080	106	1	70-120/18
87-61-6	1,2,3-Trichlorobenzene	250 U		1970	2010	102	1970	2030	103	1	68-125/24
96-18-4	1,2,3-Trichloropropane	250 U		1970	1940	99	1970	1870	95	4	75-119/19
120-82-1	1,2,4-Trichlorobenzene	250 U		1970	1970	100	1970	1980	101	1	70-123/23
95-63-6	1,2,4-Trimethylbenzene	250 U		1970	2060	105	1970	2080	106	1	71-112/19
108-67-8	1,3,5-Trimethylbenzene	250 U		1970	2110	107	1970	2150	109	2	72-113/20
127-18-4	Tetrachloroethylene	250 U		1970	3750	190* [a]	1970	3780	192* [a]	1	68-120/20
108-88-3	Toluene	250 U		1970	2150	109	1970	2170	110	1	75-111/20
79-01-6	Trichloroethylene	250 U		1970	3850	196* [a]	1970	3960	201* [a]	3	72-120/20
75-69-4	Trichlorofluoromethane	250 U		1970	2150	109	1970	2150	109	0	71-136/21
75-01-4	Vinyl chloride	250 U		1970	1320	67	1970	1290	66	2	61-131/24
1330-20-7	Xylene (total)	490 U		5910	6260	106	5910	6340	107	1	73-110/20

CAS No.	Surrogate Recoveries	MS	MSD	C45586-1	Limits
1868-53-7	Dibromofluoromethane	89%	86%	94%	80-136%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45586-1MS	M60475.D	1	05/06/16	JT	n/a	n/a	VM1816
C45586-1MSD	M60476.D	1	05/06/16	JT	n/a	n/a	VM1816
C45586-1	M60462.D	1	05/06/16	JT	n/a	n/a	VM1816

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-1, C45685-2, C45685-3, C45685-4, C45685-6, C45685-7, C45685-8, C45685-9

CAS No.	Surrogate Recoveries	MS	MSD	C45586-1	Limits
2037-26-5	Toluene-D8	99%	98%	97%	88-113%
460-00-4	4-Bromofluorobenzene	95%	95%	93%	79-115%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45620-2MS	L48841.D	1	05/06/16	JT	n/a	n/a	VL1460
C45620-2MSD	L48842.D	1	05/06/16	JT	n/a	n/a	VL1460
C45620-2	L48826.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	C45620-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		159	150	95	158	167	105	11	48-156/30
71-43-2	Benzene	ND		39.7	36.6	92	39.6	36.5	92	0	73-119/20
108-86-1	Bromobenzene	ND		39.7	37.6	95	39.6	37.9	96	1	73-115/18
74-97-5	Bromochloromethane	ND		39.7	40.3	102	39.6	40.0	101	1	76-125/19
75-27-4	Bromodichloromethane	ND		39.7	35.4	89	39.6	35.5	90	0	72-115/20
75-25-2	Bromoform	ND		39.7	41.5	105	39.6	42.7	108	3	74-120/21
104-51-8	n-Butylbenzene	ND		39.7	32.8	83	39.6	32.6	82	1	70-116/21
135-98-8	sec-Butylbenzene	ND		39.7	34.9	88	39.6	34.5	87	1	73-113/21
98-06-6	tert-Butylbenzene	ND		39.7	36.4	92	39.6	35.9	91	1	72-111/20
108-90-7	Chlorobenzene	ND		39.7	37.7	95	39.6	37.0	93	2	73-109/19
75-00-3	Chloroethane	ND		39.7	40.8	103	39.6	40.3	102	1	67-127/21
67-66-3	Chloroform	ND		39.7	36.3	91	39.6	36.1	91	1	71-121/19
95-49-8	o-Chlorotoluene	ND		39.7	33.4	84	39.6	33.4	84	0	71-114/21
106-43-4	p-Chlorotoluene	ND		39.7	33.3	84	39.6	33.4	84	0	65-120/26
56-23-5	Carbon tetrachloride	ND		39.7	38.2	96	39.6	38.7	98	1	72-121/23
75-34-3	1,1-Dichloroethane	ND		39.7	34.4	87	39.6	34.3	87	0	71-118/19
75-35-4	1,1-Dichloroethylene	ND		39.7	34.6	87	39.6	34.4	87	1	69-118/22
563-58-6	1,1-Dichloropropene	ND		39.7	34.7	87	39.6	34.6	87	0	70-117/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		39.7	32.9	83	39.6	35.5	90	8	63-123/26
106-93-4	1,2-Dibromoethane	ND		39.7	37.2	94	39.6	38.1	96	2	73-117/18
107-06-2	1,2-Dichloroethane	ND		39.7	38.0	96	39.6	38.0	96	0	71-118/20
78-87-5	1,2-Dichloropropane	ND		39.7	35.3	89	39.6	35.0	88	1	73-120/19
142-28-9	1,3-Dichloropropane	ND		39.7	37.0	93	39.6	37.0	93	0	75-120/18
108-20-3	Di-Isopropyl ether	ND		39.7	31.1	78	39.6	30.8	78	1	68-127/19
594-20-7	2,2-Dichloropropane	ND		39.7	36.3	91	39.6	36.3	92	0	66-122/25
124-48-1	Dibromochloromethane	ND		39.7	38.2	96	39.6	37.9	96	1	73-116/20
75-71-8	Dichlorodifluoromethane	ND		39.7	33.5	84	39.6	33.5	85	0	56-118/26
156-59-2	cis-1,2-Dichloroethylene	ND		39.7	38.4	97	39.6	39.1	99	2	73-128/19
10061-01-5	cis-1,3-Dichloropropene	ND		39.7	36.2	91	39.6	36.7	93	1	74-126/17
541-73-1	m-Dichlorobenzene	ND		39.7	36.3	91	39.6	36.4	92	0	71-113/19
95-50-1	o-Dichlorobenzene	ND		39.7	36.6	92	39.6	37.1	94	1	72-115/19
106-46-7	p-Dichlorobenzene	ND		39.7	36.1	91	39.6	36.6	92	1	72-113/18
156-60-5	trans-1,2-Dichloroethylene	ND		39.7	33.9	85	39.6	34.0	86	0	67-112/20
10061-02-6	trans-1,3-Dichloropropene	ND		39.7	34.7	87	39.6	34.1	86	2	72-113/18
100-41-4	Ethylbenzene	ND		39.7	36.3	91	39.6	35.8	90	1	75-112/21
637-92-3	Ethyl tert-Butyl Ether	ND		39.7	33.9	85	39.6	33.9	86	0	67-124/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45620-2MS	L48841.D	1	05/06/16	JT	n/a	n/a	VL1460
C45620-2MSD	L48842.D	1	05/06/16	JT	n/a	n/a	VL1460
C45620-2	L48826.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Compound	C45620-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		159	128	81	158	144	91	12	40-152/26
87-68-3	Hexachlorobutadiene	ND		39.7	33.4	84	39.6	32.0	81	4	72-121/26
98-82-8	Isopropylbenzene	ND		39.7	37.5	95	39.6	36.7	93	2	74-112/22
99-87-6	p-Isopropyltoluene	ND		39.7	35.0	88	39.6	35.0	88	0	72-114/21
108-10-1	4-Methyl-2-pentanone	ND		159	156	98	158	176	111	12	50-144/28
74-83-9	Methyl bromide	ND		39.7	40.6	102	39.6	39.2	99	4	73-130/20
74-87-3	Methyl chloride	ND		39.7	46.7	118	39.6	45.4	115	3	57-124/31
74-95-3	Methylene bromide	ND		39.7	37.0	93	39.6	38.5	97	4	76-121/20
75-09-2	Methylene chloride	ND		39.7	35.5	89	39.6	34.6	87	3	72-119/19
78-93-3	Methyl ethyl ketone	ND		159	138	87	158	160	101	15	52-145/27
1634-04-4	Methyl Tert Butyl Ether	ND		39.7	33.4	84	39.6	34.2	86	2	68-118/22
91-20-3	Naphthalene	ND		39.7	35.2	89	39.6	36.6	92	4	67-132/22
103-65-1	n-Propylbenzene	ND		39.7	31.7	80	39.6	31.9	81	1	71-110/19
100-42-5	Styrene	ND		39.7	37.7	95	39.6	36.7	93	3	73-112/19
994-05-8	Tert-Amyl Methyl Ether	ND		39.7	35.8	90	39.6	36.3	92	1	67-126/21
75-65-0	Tert Butyl Alcohol	ND		198	170	86	198	186	94	9	53-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		39.7	39.9	101	39.6	38.8	98	3	75-114/22
71-55-6	1,1,1-Trichloroethane	ND		39.7	37.7	95	39.6	37.7	95	0	72-124/21
79-34-5	1,1,2,2-Tetrachloroethane	ND		39.7	33.3	84	39.6	34.4	87	3	72-121/19
79-00-5	1,1,2-Trichloroethane	ND		39.7	35.9	90	39.6	36.6	92	2	70-120/18
87-61-6	1,2,3-Trichlorobenzene	ND		39.7	35.5	89	39.6	35.3	89	1	68-125/24
96-18-4	1,2,3-Trichloropropane	ND		39.7	41.8	105	39.6	41.9	106	0	75-119/19
120-82-1	1,2,4-Trichlorobenzene	ND		39.7	34.9	88	39.6	34.9	88	0	70-123/23
95-63-6	1,2,4-Trimethylbenzene	ND		39.7	33.9	85	39.6	33.0	83	3	71-112/19
108-67-8	1,3,5-Trimethylbenzene	ND		39.7	34.6	87	39.6	34.4	87	1	72-113/20
127-18-4	Tetrachloroethylene	ND		39.7	48.7	123* [a]	39.6	49.0	124* [a]	1	68-120/20
108-88-3	Toluene	ND		39.7	35.7	90	39.6	34.9	88	2	75-111/20
79-01-6	Trichloroethylene	ND		39.7	37.2	94	39.6	38.5	97	3	72-120/20
75-69-4	Trichlorofluoromethane	ND		39.7	42.5	107	39.6	43.0	109	1	71-136/21
75-01-4	Vinyl chloride	ND		39.7	44.3	112	39.6	45.4	115	2	61-131/24
1330-20-7	Xylene (total)	ND		119	111	93	119	110	93	1	73-110/20

CAS No.	Surrogate Recoveries	MS	MSD	C45620-2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	97%	80-136%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45620-2MS	L48841.D	1	05/06/16	JT	n/a	n/a	VL1460
C45620-2MSD	L48842.D	1	05/06/16	JT	n/a	n/a	VL1460
C45620-2	L48826.D	1	05/06/16	JT	n/a	n/a	VL1460

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45685-5

CAS No.	Surrogate Recoveries	MS	MSD	C45620-2	Limits
2037-26-5	Toluene-D8	95%	96%	94%	88-113%
460-00-4	4-Bromofluorobenzene	97%	98%	94%	79-115%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14318-MB	T23190.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.3	0.45	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	0.58	ug/kg	
120-12-7	Anthracene	ND	3.3	0.47	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	0.32	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	0.29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	0.57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	0.66	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	0.53	ug/kg	
218-01-9	Chrysene	ND	3.3	0.55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	0.68	ug/kg	
206-44-0	Fluoranthene	ND	3.3	0.54	ug/kg	
86-73-7	Fluorene	ND	3.3	0.50	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	0.69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3.3	0.56	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3.3	0.40	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.50	ug/kg	
85-01-8	Phenanthrene	ND	3.3	0.37	ug/kg	
129-00-0	Pyrene	ND	3.3	0.86	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	92%	10-177%
321-60-8	2-Fluorobiphenyl	79%	41-124%
1718-51-0	Terphenyl-d14	103%	40-149%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14318-BS	T23191.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
OP14318-BSD	T23192.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	167	151	91	156	94	3	53-111/14
208-96-8	Acenaphthylene	167	148	89	155	93	5	53-113/13
120-12-7	Anthracene	167	159	95	165	99	4	57-113/14
56-55-3	Benzo(a)anthracene	167	176	106	180	108	2	60-126/10
50-32-8	Benzo(a)pyrene	167	148	89	145	87	2	51-111/11
205-99-2	Benzo(b)fluoranthene	167	160	96	165	99	3	53-136/19
191-24-2	Benzo(g,h,i)perylene	167	174	104	161	97	8	57-129/17
207-08-9	Benzo(k)fluoranthene	167	165	99	166	100	1	60-126/16
218-01-9	Chrysene	167	165	99	169	101	2	64-119/10
53-70-3	Dibenzo(a,h)anthracene	167	167	100	162	97	3	54-128/19
206-44-0	Fluoranthene	167	173	104	178	107	3	62-124/13
86-73-7	Fluorene	167	157	94	146	88	7	56-118/15
193-39-5	Indeno(1,2,3-cd)pyrene	167	179	107	169	101	6	47-135/19
90-12-0	1-Methylnaphthalene	167	138	83	140	84	1	52-107/17
91-57-6	2-Methylnaphthalene	167	149	89	151	91	1	52-110/15
91-20-3	Naphthalene	167	135	81	139	83	3	49-103/14
85-01-8	Phenanthrene	167	155	93	164	98	6	57-114/10
129-00-0	Pyrene	167	161	97	168	101	4	55-124/15

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	77%	83%	10-177%
321-60-8	2-Fluorobiphenyl	77%	81%	41-124%
1718-51-0	Terphenyl-d14	88%	94%	40-149%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14318-MS	T23208.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057
OP14318-MSD	T23209.D	1	05/06/16	BJ	05/05/16	OP14318	ET1057
C45685-12	T23204.D	1	05/05/16	BJ	05/05/16	OP14318	ET1057

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

CAS No.	Compound	C45685-12 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		166	140	84	166	140	84	0	53-111/14
208-96-8	Acenaphthylene	ND		166	135	81	166	141	85	4	53-113/13
120-12-7	Anthracene	ND		166	151	91	166	147	89	3	57-113/14
56-55-3	Benzo(a)anthracene	ND		166	179	108	166	178	107	1	60-126/10
50-32-8	Benzo(a)pyrene	ND		166	149	90	166	155	93	4	51-111/11
205-99-2	Benzo(b)fluoranthene	ND		166	155	93	166	162	98	4	53-136/19
191-24-2	Benzo(g,h,i)perylene	ND		166	167	101	166	177	107	6	57-129/17
207-08-9	Benzo(k)fluoranthene	ND		166	151	91	166	155	93	3	60-126/16
218-01-9	Chrysene	ND		166	159	96	166	161	97	1	64-119/10
53-70-3	Dibenzo(a,h)anthracene	ND		166	170	102	166	177	107	4	54-128/19
206-44-0	Fluoranthene	ND		166	174	105	166	174	105	0	62-124/13
86-73-7	Fluorene	ND		166	145	87	166	150	90	3	56-118/15
193-39-5	Indeno(1,2,3-cd)pyrene	ND		166	185	111	166	196	118	6	47-135/19
90-12-0	1-Methylnaphthalene	4.1		166	131	76	166	130	76	1	52-107/17
91-57-6	2-Methylnaphthalene	6.6		166	141	81	166	139	80	1	52-110/15
91-20-3	Naphthalene	1.8	J	166	126	75	166	127	75	1	49-103/14
85-01-8	Phenanthrene	ND		166	143	86	166	145	87	1	57-114/10
129-00-0	Pyrene	ND		166	153	92	166	155	93	1	55-124/15

CAS No.	Surrogate Recoveries	MS	MSD	C45685-12	Limits
4165-60-0	Nitrobenzene-d5	76%	76%	76%	10-177%
321-60-8	2-Fluorobiphenyl	73%	73%	76%	41-124%
1718-51-0	Terphenyl-d14	91%	88%	100%	40-149%

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14328-MB	BB3217.D	1	05/06/16	FL	05/06/16	OP14328	GBB125

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	3.3	1.7	mg/kg	
	TPH (Motor Oil)	ND	6.7	3.3	mg/kg	
	TPH (Mineral Spirits)	ND	3.3	1.7	mg/kg	
	TPH (Kerosene)	ND	3.3	1.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	90%	38-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14328-BS	BB3218.D	1	05/06/16	FL	05/06/16	OP14328	GBB125
OP14328-BSD	BB3219.D	1	05/06/16	FL	05/06/16	OP14328	GBB125

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	33.3	25.2	76	24.0	72	5	53-107/12
	TPH (Motor Oil)	33.3	24.9	75	24.1	72	3	59-119/13

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	90%	88%	38-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45685
Account: GGTRCASF Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14328-MS	BB3240.D	1	05/07/16	FL	05/06/16	OP14328	GBB125
OP14328-MSD	BB3241.D	1	05/07/16	FL	05/06/16	OP14328	GBB125
C45675-1	BB3239.D	1	05/07/16	FL	05/06/16	OP14328	GBB125

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

CAS No.	Compound	C45675-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	3.3 U		33.1	24.3	73	33.1	23.3	70	4	53-107/12
	TPH (Motor Oil)	4.13	J	33.1	27.5	71	33.1	26.4	67	4	59-119/13

CAS No.	Surrogate Recoveries	MS	MSD	C45675-1	Limits
630-01-3	Hexacosane	89%	86%	86%	38-146%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C45685
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11265
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/05/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.4	1.5		
Antimony	2.0	.12	.18		
Arsenic	2.0	.16	.17		
Barium	20	.02	.09		
Beryllium	1.0	.02	.01		
Boron	10	.18	.15		
Cadmium	1.0	.02	.031	-0.020	<1.0
Calcium	500	2.8	4.5		
Chromium	1.0	.04	.054	-0.030	<1.0
Cobalt	1.0	.03	.025		
Copper	2.5	.12	.15		
Iron	20	.53	.76		
Lead	2.0	.1	.14	0.010	<2.0
Magnesium	500	1.6	2.1		
Manganese	1.5	.02	.026		
Molybdenum	2.0	.05	.04		
Nickel	1.0	.04	.047	0.0	<1.0
Potassium	1000	3.5	4.6		
Selenium	2.0	.17	.33		
Silicon	20	.24	.43		
Silver	1.0	.05	.067		
Sodium	1000	1.1	1.2		
Strontium	1.0	.01	.018		
Thallium	2.0	.17	.12		
Tin	50	.08	.28		
Titanium	1.0	.08	.13		
Vanadium	1.0	.06	.074		
Zinc	2.0	.05	.22	-0.060	<2.0

Associated samples MP11265: C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45685
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11265
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/05/16

Metal	C45664-5 Original	MS	Spikelot MPIR5	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	0.0	38.5	44	87.5	75-125
Calcium					
Chromium	21.7	61.5	44	90.5	75-125
Cobalt	anr				
Copper	anr				
Iron					
Lead	5.3	44.2	44	88.4	75-125
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	22.1	62.8	44	92.5	75-125
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	26.7	66.3	44	90.0	75-125

Associated samples MP11265: C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C45685
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11265
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/05/16

Metal	C45664-5 Original	MSD	Spikelot MPIR5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	0.0	39.4	45.1	87.3	2.3	20
Calcium						
Chromium	21.7	61.7	45.1	88.6	0.3	20
Cobalt	anr					
Copper	anr					
Iron						
Lead	5.3	44.4	45.1	86.6	0.5	20
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	22.1	62.3	45.1	89.1	0.8	20
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	26.7	65.7	45.1	86.4	0.9	20

Associated samples MP11265: C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C45685
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11265
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/05/16

Metal	BSP Result	Spikelot MPIR5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	46.5	50	93.0	80-120
Calcium				
Chromium	49.4	50	98.8	80-120
Cobalt	anr			
Copper	anr			
Iron				
Lead	45.3	50	90.6	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	45.6	50	91.2	80-120
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	48.7	50	97.4	80-120

Associated samples MP11265: C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C45685
Account: GGTRCASF - Golden Gate Tank Removal
Project: 1110 Jackson Street - Oakland, CA

QC Batch ID: MP11265
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/05/16

Metal	C45664-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	234	246	4.9	0-10
Cobalt	anr			
Copper	anr			
Iron				
Lead	57.5	56.9	1.0	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	238	237	0.5	0-10
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	288	308	6.8	0-10

Associated samples MP11265: C45685-1, C45685-2, C45685-3, C45685-4, C45685-5, C45685-6, C45685-7, C45685-8, C45685-9, C45685-10, C45685-11, C45685-12, C45685-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC002853474
2. Page 1 of: 1
3. Emergency Response Phone: 1-800 624-9136
4. Manifest Tracking Number: 014477075 JJK

GENERATOR

5. Generator's Name and Mailing Address: IIJ Family Housing, 1825 San Pablo Ave, Oakland, CA 94612
Generator's Phone: 510 287-5353
Generator's Site Address (if different than mailing address): 1110 Jackson Street, Oakland, CA. 94607

6. Transporter 1 Company Name: Patriot Environmental Services
U.S. EPA ID Number: CAD 053866 794

7. Transporter 2 Company Name: ~~Environmental Logistics Inc~~
U.S. EPA ID Number: ~~CAR000217533~~

8. Designated Facility Name and Site Address: Cross and Overton Inc. 1630 West 17th Street, Long Beach, CA 90813
Facility's Phone: 562 432-5445
U.S. EPA ID Number: CAD 028 409 019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NOU- RCRA Hazardous Waste liquid (Hydrocarbons, water)	03	TP	750	G	134
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: With Appropriate Personal Protective Equipment
Job#/PO# 09-16-0173
PeoPle ID: 100522
0131188

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BRENT WHEELER
Signature:
Month: 4 Day: 15 Year: 16

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin Mata
Signature:
Month: 4 Day: 15 Year: 16

Transporter 2 Printed/Typed Name: ~~Allen Chambers~~
Signature:
Month: ~~04~~ Day: ~~15~~ Year: ~~16~~

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
9b.1 One(1) tote S/F UN1993, WASTE Flammable Liquids, NOS, (gasoline), 3, II
USE WASTE Codes 331, D001, D018, proj. 100538 Handling Code: H135
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H135			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: JR LAMYUEN
Signature:
Month: 4 Day: 19 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

SITE
KELLER CANYON LANDFILL
Pittsburg, CA 925-458-9800

CUSTOMER
674678
Golden Gate Tank Removal, Inc.
1480 Carroll Avenue
San Francisco, CA 94124
4212167120

SITE	TICKET #	CELL
01	1065008	

WEIGHMASTER: Felipe C.

DATE/TIME IN	DATE/TIME OUT
05-05-2016 12:22 pm	05-5-2016 12:22 pm

VEHICLE	CONTAINER
YMT10	

REFERENCE: INVOICE

BILL OF LADING:

SCALE IN	GROSS WEIGHT	68,460	NET TONS	18.86	
TARE OUT	TARE WEIGHT	30,740	NET WEIGHT	37,720	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
20.00	YD	TRACKING QTY				
18.86	TN	SW-CONT SOIL OAKLAND				
1.00		ENVIRONMENTAL FEE 1				
1.00		FUEL RECOVERY FEE				

SAFETY KLEEN It's the Right Thing!

WEIGHMASTER CERTIFICATE - This is to certify that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accurace, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food & Agriculture.

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE Francisc

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE
KELLER CANYON LANDFILL
Pittsburg, CA 925-458-9800

CUSTOMER
674678
Golden Gate Tank Removal, Inc.
1480 Carroll Avenue
San Francisco, CA 94124
4212167120

SITE	TICKET #	CELL
01	1065067	

WEIGHMASTER: Felipe C.

DATE/TIME IN	DATE/TIME OUT
05-05-2016 2:45 pm	05-5-2016 2:45 pm

VEHICLE	CONTAINER
YMT10	

REFERENCE: INVOICE

BILL OF LADING:

SCALE IN	GROSS WEIGHT	73,060	NET TONS	21.16	
TARE OUT	TARE WEIGHT	30,740	NET WEIGHT	42,320	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
20.00	YD	TRACKING QTY				
21.16	TN	SW-CONT SOIL OAKLAND				
1.00		ENVIRONMENTAL FEE 1				
1.00		FUEL RECOVERY FEE				

SAFETY KLEEN It's the Right Thing!

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE
KELLER CANYON LANDFILL
Pittsburg, CA 925-458-9800

CUSTOMER
674678
Golden Gate Tank Removal, Inc.
1480 Carroll Avenue
San Francisco, CA 94124
4212167120

SITE	TICKET #	CELL
01	1064750	

WEIGHMASTER: Felipe C.

DATE/TIME IN	DATE/TIME OUT
05-04-2016 11:36 am	05-4-2016 12:00 pm

VEHICLE	CONTAINER
YMT10	

REFERENCE: INVOICE

BILL OF LADING:

SCALE IN	GROSS WEIGHT	76,500	NET TONS	22.88	
SCALE OUT	TARE WEIGHT	30,740	NET WEIGHT	45,760	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
20.00	YD	TRACKING QTY				
22.88	TN	SW-CONT SOIL OAKLAND				
1.00		ENVIRONMENTAL FEE 1				
1.00		FUEL RECOVERY FEE				

SAFETY It's the Right Thing!

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The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE Francis

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (07/12) 2/21

SITE
KELLER CANYON LANDFILL
Pittsburg, CA 925-458-9800

CUSTOMER
674678
Golden Gate Tank Removal, Inc.
1480 Carroll Avenue
San Francisco, CA 94124
4212167120

SITE	TICKET #	CELL
01	1064825	

WEIGHMASTER: Felipe C.

DATE/TIME IN	DATE/TIME OUT
05-04-2016 2:43 pm	05-4-2016 2:43 pm

VEHICLE	CONTAINER
YMT10	

REFERENCE: INVOICE

BILL OF LADING:

SCALE IN	GROSS WEIGHT	61,460	NET TONS	15.36	
TARE OUT	TARE WEIGHT	30,740	NET WEIGHT	30,720	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
20.00	YD	TRACKING QTY				
15.36	TN	SW-CONT SOIL OAKLAND				
1.00		ENVIRONMENTAL FEE 1				
1.00		FUEL RECOVERY FEE				

SAFETY It's the Right Thing!

WEIGHMASTER CERTIFICATE - This is to certify that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accurace, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food & Agriculture.

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE Francis

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (07/12)

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
N/A		

d. Generator's Name and Location:	e. Generator's Mailing Address:
11J Family Housing LP 1110 Jackson St. Oakland, CA 94607 f. Phone:510-287-5353	11J Family Housing LP c/o East Bay Asian Local Development Corp 1825 San Pablo Ave Oakland, CA 94612 g. Phone:510-287-5353
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4212167120	04/22/2017	Soil				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Gina Wee	[signature]	5/4/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
Golden Gate Tank Removal,Inc 1480 Carroll Avenue San Francisco, CA 94124 b. Phone: 415-512-1555		You + Me Trk 10 510 760 4386
c. Driver Name (Print)	d. Signature	e. Date
Francis	Francis	5 5 16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Keller Canyon Landfill 901 Baily Rd. Pittsburg, CA 94565 b. Phone: 925-458-9800		

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
[signature]	[signature]	5-5-16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
N/A		

d. Generator's Name and Location:	e. Generator's Mailing Address:
11J Family Housing LP 1110 Jackson St. Oakland, CA 94607 f. Phone:510-287-5353	11J Family Housing LP c/o East Bay Asian Local Development Corp 1825 San Pablo Ave Oakland, CA 94612 g. Phone:510-287-5353
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4212167120	04/22/2017	Soil				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Gina Wee		5/6/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Golden Gate Tank Removal,Inc
1480 Carroll Avenue
San Francisco, CA 94124

Yout MS Trk 16

b. Phone: 415-512-1555 510 760 4386

c. Driver Name (Print)	d. Signature	e. Date
Frank S		5 5 16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Keller Canyon Landfill 901 Bailly Rd. Pittsburg, CA 94565 b. Phone: 925-458-9800		

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
		5-5-16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
N/A		

d. Generator's Name and Location:	e. Generator's Mailing Address:
11J Family Housing LP 1110 Jackson St. Oakland, CA 94607 f. Phone:510-287-5353	11J Family Housing LP c/o East Bay Asian Local Development Corp 1825 San Pablo Ave Oakland, CA 94612 g. Phone:510-287-5353
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4212167120	04/22/2017	Soil				

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p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Gina Wee	[signature]	5/4/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Golden Gate Tank Removal,Inc
1480 Carroll Avenue
San Francisco, CA 94124

Yar + Me Trk 10
510 760 4386

b. Phone: 415-512-1555

c. Driver Name (Print)	d. Signature	e. Date
Francis	Francis	5 4 16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Keller Canyon Landfill 901 Baily Rd. Pittsburg, CA 94565 b. Phone: 925-458-9800		

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
[signature]	[signature]	5-4-16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
N/A		

d. Generator's Name and Location:	e. Generator's Mailing Address:
11J Family Housing LP 1110 Jackson St. Oakland, CA 94607 f. Phone:510-287-5353	11J Family Housing LP c/o East Bay Asian Local Development Corp 1825 San Pablo Ave Oakland, CA 94612 g. Phone:510-287-5353
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4212167120	04/22/2017	Soil				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Gina Wee	[signature]	5/4/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Golden Gate Tank Removal,Inc
1480 Carroll Avenue
San Francisco, CA 94124
b. Phone: 415-512-1555

Your Me Trls to

c. Driver Name (Print)	d. Signature	e. Date
Francis	Francis	5 4 16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Keller Canyon Landfill 901 Baily Rd. Pittsburg, CA 94565 b. Phone: 925-458-9800		

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Felipe Campo	[signature]	5-4-16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/ CONTAMINATION SITE REPORT

EMERGENCY ☐ Yes ☒ No

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ Yes ☐ No

REPORT DATE: 04/15/16

CASE #:

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PERSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.

SIGNED _____ DATE _____

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Gina Wee

PHONE: (415) 512-1555

SIGNATURE:

REPRESENTING
☐ LOCAL AGENCY ☐ REGIONAL BOARD
☐ OWNER/OPERATOR ☒ OTHER... contractor

COMPANY OR AGENCY NAME: Golden Gate Tank Removal, Inc.

ADDRESS: 1480 Carroll Avenue (STREET) San Francisco (CITY) CA (STATE) 94124 (ZIP)

RESPONSIBLE PARTY

NAME: 11J Family Housing, LP ☐ Unknown

PHONE: 510-287-5353

ADDRESS: 1825 San Pablo Avenue (STREET) Oakland (CITY) CA (STATE) 94612 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE):

OPERATOR:

PHONE:

ADDRESS: 1110 Jackson St (STREET) Oakland (CITY) Alameda (COUNTY) 94607 (ZIP)

CROSS STREET: 38th Avenue

IMPLEMENTING AGENCIES

LOCAL AGENCY: Alameda County Environmental Health

AGENCY NAME: -Barbara Jakub

PHONE: 510-567-6737

REGIONAL BOARD:

PHONE:

SUBSTANCES INVOLVED

(1) NAME: Gasoline — QUANTITY LOST (GALLONS): _____ ☒ Unknown

(2) _____ ☐ Unknown

DISCOVERY/ABATEMENT

DATE DISCOVERED: 04/15/16

HOW DISCOVERED: ☐ Tank Test ☒ Tank Removal ☐ Nuisance Conditions ☐ Inventory Control ☐ Subsurface Monitoring ☐ Other...

DATE DISCHARGE BEGAN: ☒ Unknown

HAS DISCHARGE BEEN STOPPED? ☒ Yes ☐ No 04/15/16 (IF YES, DATE)

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☒ Remove Contents ☒ Close Tank & Removed
☐ Repair Tank ☐ Change Procedure
☐ Replace Tank ☐ Other...
☐ Repair Piping

SOURCE/ CAUSE

SOURCE OF DISCHARGE: ☐ Tank Leak ☐ Piping Leak ☒ Unknown ☐ Other...

CAUSE(S): ☐ Overfill ☐ Corrosion ☐ Rupture/Failure ☐ Unknown ☐ Spill ☐ Other...

CASE TYPE

CHECK ONE ONLY
☐ Undetermined ☒ Soil Only ☐ Groundwater ☐ Drinking Water - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☐ No Action Taken
☒ Leak Being Confirmed
☐ Remediation Plan
☐ Preliminary Site Assessment Workplan Submitted
☐ Preliminary Site Assessment Underway
☐ Case Closed (Cleanup Completed or Unnecessary)
☐ Pollution Characterization
☐ Post Cleanup Monitoring in Progress
☐ Cleanup Underway

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S)
☐ Cap Site (CD)
☐ Contamination Barrier (CB)
☐ Vacuum Extract (VE)
☒ Excavate & Dispose (ED)
☐ Excavate & Treat (ET)
☐ No Action Required (NA)
☐ Remove Free Product (FP)
☐ Pump & Treat Groundwater (GT)
☐ Treatment at Hookup (HU)
☐ Enhanced Bio Degradation (IT)
☐ Replace Supply (RS)
☐ Vent Soil (VS)
☐ Other...

COMMENTS

Holes found in the tanks
Contaminated Soil

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS WASTE

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

I. FACILITY IDENTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.
1110 Jackson Street

FACILITY ID# 1.

TANK OWNER NAME 740.
11J Family Housing, L.P.

TANK OWNER ADDRESS 741.
1825 San Pablo Avenue

TANK OWNER CITY	742.	STATE	743.	ZIP CODE	744.
Oakland		CA		94612	

II. TANK CLOSURE INFORMATION

TANK INTERIOR ATMOSPHERE READINGS	Tank ID # (Attach additional copies of this page for more than three tanks)		Concentration of Flammable Vapor			Concentration of Oxygen		
			Top	Center	Bottom	Top	Center	Bottom
	1	745.	746a.	746b.	746c.	747a.	747b.	747c.
	2	748.	749a.	749b.	749c.	750a.	750b.	750c.
	3	751.	752a.	752b.	752c.	753a.	753b.	753c.

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER
Shon Space

NAME OF CERTIFIER (Print) 754.
Shon Space

TITLE OF CERTIFIER 755.
GENERAL MANAGER

ADDRESS 756.
255 Parr Blvd

CITY 757.
Richmond

PHONE 758.
510-235-1393

DATE 759.
4/20/16

CERTIFICATION TIME
10 AM

TAX
34722

STATUS OR AFFILIATION OF CERTIFYING PERSON

Certifier is a representative of the CUPA, authorized agency, or LIA: 760.

☐ Yes ☒ No

Name of CUPA, authorized agency, or LIA: 761.

If certifier is other than CUPA / LIA check appropriate box below: 762.

- ☐ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☒ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS 763.

(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.) ☐ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC: 764.

A copy of this certificate shall accompany the tank to the recycling/disposal facility and be provided to the agency overseeing tank closure (i.e. CUPA or other authorized local agency); the owner and/or operator of the tank system; and the tank removal contractor.

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS WASTE

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

I. FACILITY IDENTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.
1110 Jackson Street

FACILITY ID# 1.

TANK OWNER NAME 740.
11J Family Housing, L.P.

TANK OWNER ADDRESS 741.
1825 San Pablo Avenue

TANK OWNER CITY Oakland 742. | STATE CA 743. | ZIP CODE 94612 744.

II. TANK CLOSURE INFORMATION

TANK INTERIOR ATMOSPHERE READINGS		Tank ID # (Attach additional copies of this page for more than three tanks)	Concentration of Flammable Vapor			Concentration of Oxygen		
			Top	Center	Bottom	Top	Center	Bottom
	1	745.	746a.	746b.	746c.	747a.	747b.	747c.
	2	748.	749a.	749b.	749c.	750a.	750b.	750c.
	3	751.	752a.	752b.	752c.	753a.	753b.	753c.

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER

NAME OF CERTIFIER (Print) 754.
Shon Space

TITLE OF CERTIFIER 755.
GENERAL MANAGER

ADDRESS 756.
255 Parr Blvd

CITY 757.
Richmond

PHONE 758.
510-235-1393

DATE 759.
4/20/16

CERTIFICATION TIME
TANK 12 Noon 34723

STATUS OR AFFILIATION OF CERTIFYING PERSON

Certifier is a representative of the CUPA, authorized agency, or LIA: 760.

☐ Yes ☒ No

Name of CUPA, authorized agency, or LIA: 761.

If certifier is other than CUPA / LIA check appropriate box below: 762.

- ☐ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☒ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS 763.

(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.) ☐ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC: 764.

A copy of this certificate shall accompany the tank to the recycling/disposal facility and be provided to the agency overseeing tank closure (i.e. CUPA or other authorized local agency); the owner and/or operator of the tank system; and the tank removal contractor.

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS WASTE

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

I. FACILITY IDENTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.
1110 Jackson Street

FACILITY ID# 1.

TANK OWNER NAME 740.
11J Family Housing, L.P.

TANK OWNER ADDRESS 741.
1825 San Pablo Avenue

TANK OWNER CITY Oakland 742.

STATE CA 743.

ZIP CODE 94612 744.

II. TANK CLOSURE INFORMATION

TANK INTERIOR ATMOSPHERE READINGS	Tank ID # (Attach additional copies of this page for more than three tanks)		Concentration of Flammable Vapor			Concentration of Oxygen		
			Top	Center	Bottom	Top	Center	Bottom
	1	745.	746a.	746b.	746c.	747a.	747b.	747c.
	2	748.	749a.	749b.	749c.	750a.	750b.	750c.
	3	751.	752a.	752b.	752c.	753a.	753b.	753c.

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER

NAME OF CERTIFIER (Print) 754.
Shon Space

TITLE OF CERTIFIER 755.
General Manager

ADDRESS 756.
255 Parr Blvd

CITY 757.
Richmond

PHONE 758.
510-235-1393

DATE 759.
4/20/16

CERTIFICATION TIME Tank
1030 am 34724

STATUS OR AFFILIATION OF CERTIFYING PERSON

Certifier is a representative of the CUPA, authorized agency, or LIA: 760.

☐ Yes ☒ No

Name of CUPA, authorized agency, or LIA: 761.

If certifier is other than CUPA / LIA check appropriate box below: 762.

- ☐ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☒ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS 763.

(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.) ☐ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC: 764

A copy of this certificate shall accompany the tank to the recycling/disposal facility and be provided to the agency overseeing tank closure (i.e. CUPA or other authorized local agency); the owner and/or operator of the tank system; and the tank removal contractor.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. ~~Page 1 of~~	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002853474	1	510-235-1393	01389717 5 JJK

GENERATOR

5. Generator's Name and Mailing Address
11J FAMILY HOUSING
1825 SAN PABLO AVE
OAKLAND CA. 94612
Generator's Phone: 510-287-5353

Generator's Site Address (if different than mailing address)
1110 JACKSON ST
OAKLAND CA. 94607

6. Transporter 1 Company Name: PATRIOT ENVIRONMENTAL SERVICES — U.S. EPA ID Number: CAD053866794

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ECOLOGY CONTROL INDUSTRIES
255 PARR BLVD
RICHMOND CA. 94801
Facility's Phone: 510-235-1393
U.S. EPA ID Number: CAD009466392

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. (NON-RCRA HAZARDOUS WASTE SOLID (EMPTY STORAGE TANKS)	003	TP	1500	P	512
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
ECI JOB#52T4995 TANK#34722 34723 34724
WEIGHTS ARE APPROXMATE

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ADAN RODRIGUEZ — Signature: [signature] — Month 4 Day 13 Year 16

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month 4 Day 15 Year 16

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

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: JON LAWRENCE — Signature: [signature] — Month 4 Day 18 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 23

JOB SITE

Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.
Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days after expired.

CHECK REVERSE

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA ▪ 2ND FLOOR ▪ OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-238-3891
FAX: 510-238-2263
TDD: 510-238-3254

Permit No: X1600656 OPW - Excavation **Filed Date:** 4/4/2016

Job Site: 1110 JACKSON ST **Schedule Inspection by calling:** 510-238-3444

Parcel No: 002 008100801

District:

For SL; X; and CGS permits see **SPECIAL NOTE** below

Project Description: Remove UG storage tank in SIDEWALK AREA ONLY.
If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance.
No impact on traffic lane (vehicular or pedestrian) allowed without approved Traffic Control Plan.
Alameda County HAZMAT review required.
Permit valid 90 days.
Call PWA INSPECTION prior to start: 510-238-3651. ~~48 HR PRIOR~~.

Related Permits: X1500233

	Name	Applicant	Address	Phone	License #
Owner:	CITY OF OAKLAND HOUSING AUTHORITY		1619 HARRISON ST OAKLAND, CA		
Contractor:	GOLDEN GATE TANK REMOVAL INC	X	1455 YOSEMITE AVENUE SAN FRANCISCO, CA	(415) 512-1555	
Contractor:	GOLDEN GATE TANK REMOVAL INC		1455 YOSEMITE AVENUE SAN FRANCISCO, CA	(415) 512-1555	616521

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information

Excavation Type: Private Party
Special Paving Detail Required:
Tree Removal Involved:
Date Street Last Resurfaced:
Holiday Restriction (Nov 1 - Jan 1):
Worker's Compensation Company Name:
Limited Operation Area (7AM-9AM) And (4PM-6PM):
Worker's Compensation Policy #:

Key Dates

Approximate Start Date:
Approximate End Date:

ADDRESS:

TOTAL FEES TO BE PAID AT FILING: $434.91

Application Fee	$70.00	Excavation - Private Party Type	$309.00	Records Management Fee	$36.01
Technology Enhancement Fee	$19.90				

Plans Checked By _____ Date _____ Permit Issued By _____ Date 4.4

Finalized By _____ Date _____

DIST:

CITY OF OAKLAND

SPECIAL NOTE

- SL; X; and CGS permits: prior to start, email pwa_inspections@oaklandnet.com or call 510-238-3651
- SL and X permits valid 90 days; CGS permits valid 30 days

Oakland Fire Department, Fire Prevention Bureau
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

(510) 238-3851
TTY (510) 238-6884

Operational Fire Permit

Post Permit in Conspicuous Location

Occupancy Mailing Address
GOLDEN GATE TANK REMOVAL
1480 carroll ave
san francisco ca 94124

Effective 4/1/2016 Expires 4/1/2017
Inspection Ref # 2016-29808
Permit Ref #

Facility Address
1110 JACKSON ST OAKLAND CA 94607

This operational **Underground Tank Permit Removal** permit is here by granted and is effective 4/1/2016 and expires on 4/1/2017.

The holder of this permit agrees to maintain the building/business compliant with City, State, and Federal standards associated with the business operations. Failure to do so will result in the termination of this fire permit. At the time this permit was issued, the facility was in compliance with the City of Oakland Fire Code.

Not Valid If Permit Fees Not Paid

Code	Requirements
	Specifics

O'Neal,Nehemiah Inspector
Oakland Fire Prevention Bureau

Teresa Deloach Reed, Fire Chief
Office of the Fire Marshal

ALAMEDA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
PHONE (510) 567-6700

ACCEPTED
Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/destruction.
One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.
Any changes or alterations of these plans and specifications must be submitted to this this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.
Notify this Department at least 72 hours prior to the following required inspections:

Removal of Tank(s) and Piping
Sampling
Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS!

Contact Specialist:

Barbara Jakub
barbara.jakub@acgov.org
510-567-6737
Approved 3/22/2016

UNDERGROUND STORAGE TANK CLOSURE PLAN

*** * * Complete closure plan according to instructions * * ***

1. Name of Business 1110 Jackson Street

   Business Owner or Contact Person **(PRINT)** 11J Family Housing, L.P. Everette Cleveland

2. Site Address 1110 Jackson Street

   City, State Oakland, CA Zip 94607 Phone 510-287-5353

3. Mailing Address 1825 San Pablo Avenue, Suite 200

   City, State Oakland, CA Zip 94612 Phone 510-287-5353

4. Property Owner 11J Family Housing, L.P.

   Business Name (if applicable) _____

   Address 1825 San Pablo Avenue, Suite 200

   City, State Oakland, CA Zip 94612 Phone 510-287-5353

5. Generator name under which tank will be manifested

   11 J Family Housing, L.P.

   EPA I.D. No. under which tank(s) will be manifested CAC002-853-474

SR0029858

6. Contractor Golden Gate Tank Removal, Inc.

Address 1480 Carroll Avenue

City, State San Francisco, CA Zip 94124 Phone 415-512-1555

License Type A C-8, Haz ID# 616521

7. Consultant (if applicable) _____

Address _____

City, State _____ Zip _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

Name Tim Hallen Title Project Manager

Company Golden Gate Tank Removal, Inc.

Phone 415-512-1555

9. Number of underground tanks being closed with this plan 3 (three)

Length of piping being removed under this plan up to 15 feet

Total number underground tanks at this facility (**confirmed with owner or operator) ~~two~~ THREE

10. State Registered Hazardous Waste Transporters/Facilities (See Instructions).

a) Product/Residual Sludge/Rinsate Transporter

Name Big Sky Environmental Solutions. EPA I.D. No. CAL000346010

Hauler License No. 5840 License Exp. Date 09/30/16

Address P.O. Box 481

City, State Benecia, CA Zip 94510

b) Product/Residual Sludge/Rinsate Disposal Site

Name DK Dixon EPA I.D. No. CAT080012602

Address 7300 Chevron Way

City, State Dixon, CA Zip 95620

Before tank(s) are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.

The Bay Area Air Quality Management District, (415) 771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verity tank inertness. **It is the contractor's responsibility to have a functional combustible gas indicator on-site to verity that the tank(s) is inerted.**

15. Tank History and Sampling Information ***(See Instructions)***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Sample(s)
Capacity (gallons)	Use History include date last used (estimated)		
Tank 1,2,3- 500gals each	Unknown	Soil samples & water if present	1.stockpile 2.north/east end of excavation 3.south/west end of excavation Bottom of tank – max 15 feet

One soil sample must be collected for every 20 linear feet of underground piping that is removed. A groundwater sample must be collected if any groundwater is present in the excavation.

Subject: Conditions for Approval of Closure Plan

The following items are included in the Conditions of Approval by Item #:

14. **Vacuum fluids concurrently during all cleaning activities of the single-wall tanks and associated piping.** Ensure that all liquids are captured and appropriately disposed.

16. Tank was reported by visual inspection as a gasoline tank. Use the recommended minimum verification analysis for gasoline and diesel fuel per the attached sheet.

APPENDIX B

REPORT of LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT, JACKSON TOWER, OAKLAND, CA

REPORT
OF
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
JACKSON TOWER
OAKLAND, CALIFORNIA

Prepared for:

D.R. HORTON, INC.
5790 FLEET STREET, SUITE 200
CARLSBAD, CALIFORNIA 92008

Prepared by:

TETRA TECH EM INC.
10860 GOLD CENTER DRIVE, SUITE 200
RANCHO CORDOVA, CALIFORNIA 95670

TETRA TECH PROJECT P2261.06.1.BAD0.0030.2C

JANUARY 18, 2006

TETRA TECH EM INC.

January 18, 2006

Mr. Chris Chambers
Northern California Region President
D.R. Horton, Inc.
5790 Fleet Street, Suite 200
Carlsbad, California 92008

Subject: **REPORT OF LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**
Jackson Tower
Oakland, California
Tetra Tech Project: P2261.06.1.BAD0.0030.2C

Dear Mr. Chambers:

Tetra Tech EM Inc. (Tetra Tech) is pleased to provide this letter report of a Limited Phase II Environmental Site Assessment (ESA) for the above-referenced property (target property) shown in Figure 1. The purpose of the Limited Phase II ESA was to evaluate the potential for petroleum contamination at the target property associated with an adjacent property, the Alcopark Garage Parking Facility (Alcopark Garage), located at 165 13th Street. The Alcopark Garage was listed on several environmental databases including the leaking underground storage tank (LUST) database and has impacted groundwater in the vicinity of the target property (Figure 2). The Limited Phase II ESA scope of work was authorized by Mr. Adam Fritz on December 9, 2005.

PROJECT BACKGROUND

The target property consists of three contiguous parcels of commercially developed land, configured in an L-shape totaling approximately 0.66 acres. The northern portion of the target property is improved with a one-story office building and a parking lot. The southern portion of the target property is improved with an Asian food store and a two-story office building with a small asphalt parking lot between them. The target property is located northeast of the intersection of Jackson Street and 11th Street in Oakland, California. The target property is addressed as 1110 Jackson Street, 198 11th Street, and 176 11th Street.

IDENTIFICATION OF OFF-SITE RECOGNIZED ENVIRONMENTAL CONDITION

The target property is bordered to the north by Alcopark Garage, an eight-story garage that serves the surrounding downtown area. This site is adjacent to the target property and has two 10,000-gallon underground fuel tanks. The garage was constructed sometime between 1960 and 1964. This site appears on several environmental databases, including the Hazardous Waste Information System, California Facility Inventory Database, LUST, "Cortese" Hazardous Waste & Substances Sites List, and Underground Storage Tank database.

10860 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670
Tel 916.852.8300 Fax 916.852.0307
www.ttemi.com

Based on a file review conducted at the Oakland Fire Department, no further action is required concerning the soil at Alcopark Garage. However, elevated concentrations of total petroleum hydrocarbons (TPH) as gasoline (TPH-g) and other volatile organic compounds (VOC) including benzene, toluene, ethylbenzene, and xylene (BTEX), and methyl tert-butyl ether (MTBE) were detected in groundwater samples collected from on-site monitoring wells. Due to the location of this site adjacent to the target property, the varying groundwater flow direction, and the shallow groundwater level in the vicinity, less than 20 feet below ground surface (bgs), Tetra Tech concluded that an off-site release from Alcopark Garage may have impacted groundwater beneath the target property. Therefore, the Alcopark Garage was considered an off-site recognized environmental condition (REC) to the target property and Tetra Tech recommended further assessment of the groundwater conditions beneath the target property.

LIMITED PHASE II ESA ACTIVITES

Prior to advancing the soil borings, Tetra Tech contacted Underground Service Alert to locate underground utilities in the work area. In addition, Subtronic Corporation conducted a utility clearance survey of the boring locations and surrounding area. Precision Sampling Inc., of Richmond, California, conducted the direct-push drilling services. A soil boring permit was obtained from Alameda County Public Works Agency – Water Resources (ACPWA) for drilling activities. The soil boring permit is included as Attachment A. Soil boring locations are presented on Figure 2.

On December 27, 2005, soil borings SB-1, SB-2, and SB-3 were advanced to groundwater to a maximum depth of 25 feet bgs to assess soil and groundwater conditions at the target property. Soil borings SB-1 and SB-2 were advanced in the parking lot for the building located at 1110 Jackson Street, and soil boring SB-3 was advanced in the parking lot for the Asian food store located at 198 11th Street (Figure 2). Field screening of soil samples using visual and olfactory observations did not indicated petroleum hydrocarbon contamination in the borings. In addition, field screening of soil samples was conducted using a photoionization detector (PID). Only very low PID readings (0.2 and 0.7 parts per million) were measured in one soil boring (SB-1) at depths between 20 and 22 feet bgs. Groundwater was encountered at a depth of approximately 18 to 21 feet bgs.

Soil borings were continuously cored and logged in general accordance with the Unified Soil Classification System, by a staff geologist under supervision of a California-professional geologist, and in accordance with Tetra Tech standard operating procedures. Soil boring logs are included as Attachment B. Tetra Tech retained soil samples in acetate sleeves and covered the ends with Teflon™ film, capped by polyvinyl chloride (PVC) end caps. Soil samples from approximately 12 feet bgs from each boring were retained for chemical analyses. At each borehole, water samples were collected from temporary, 1-inch diameter PVC casing using a bailer. Water samples were contained in laboratory supplied 250-milliliter (ml) polyethylene bottles and pre-preserved 40-ml volatile organic analyses vials. The samples were labeled, packaged, and stored on ice in an insulated cooler for transport under chain-of-custody protocol to SunStar Laboratories Inc. (SunStar), a California-certified analytical laboratory.

Three soil and three groundwater samples were collected and submitted to SunStar for analysis of TPH-g, TPH as diesel (TPH-d), and TPH as motor oil (TPH-mo) using U.S. Environmental Protection Agency (EPA) Method 8015; California Assessment Manual (CAM 17) metals using EPA Method 6010B and 7470/7471; and VOCs including fuel oxygenates using EPA Method 8260B. Groundwater samples for metals analyses were filtered at the laboratory. Certified analytical reports and chain-of-custody documentation are included as Attachment C.

All drilling and sampling equipment was decontaminated before advancing each boring using alconox detergent followed by a double rinse of deionized water.

All soil borings were sealed to the surface with neat cement by tremmie pipe. ACPWA personnel authorized the sealing of all borings without inspection.

Soils encountered from ground surface to approximately 5 feet bgs consisted of silty sand. From approximately 5 to approximately 22 feet bgs soils alternated from clay with sand to sand with clay. Soils from approximately 22 to the total depth drilled (25 feet bgs) consisted of sand with silt. A perched water zone was encountered at approximately 3 to 4 feet bgs, and wet zones were encountered at various depths; however, saturated conditions were encountered at depths of approximately 18 to 21 feet bgs.

Investigation Derived Waste

Soil cuttings were placed into one 55-gallon Department of Transportation specified drum. The 55-gallon drum is currently stored on-site at the 1110 Jackson Street property pending an evaluation of disposal options. Decontamination water was disposed of by the driller.

Investigation Results

Laboratory results of soil samples indicate concentrations of TPH-g, TPH-d, TPH-mo, and VOCs including fuel oxygenates were below laboratory reporting limits, and metals were below laboratory reporting limits or within reported California background concentrations.

Laboratory results of groundwater samples indicate concentrations of TPH-g, TPH-d, TPH-mo, VOCs including fuel oxygenates, and metals were below laboratory reporting limits or below California Department of Health Services Maximum Contaminant Levels (MCL), where established. Tetrachloroethene (PERC) and trichloroethene (TCE) were both detected at concentrations of 4.1 micrograms per liter (µg/L) in the groundwater sample collected beneath the parking lot of the Asian food store. These concentrations are below the MCL of 5.0 µg/L for both constituents; however, it should be noted that if construction dewatering is necessary during the planned development of the target property, the extracted groundwater will likely require testing for presence of contaminants such as PERC and TCE. Pumping and discharge of extracted groundwater should be done pursuant to a National Pollutant Discharge Elimination System (NPDES) permit issued by the Regional Water Quality Control Board (RWQCB).

No further assessment of the target property is warranted.

CONCLUSIONS AND RECOMMENDATIONS

Tetra Tech conducted a Limited Phase II ESA at the target property. Based on the investigation results discussed above, our conclusions and recommendations are summarized below:

Laboratory results of soil samples indicate concentrations of TPH and VOCs were below laboratory reporting limits, and metals were below laboratory reporting limits or within reported California background concentrations.

Laboratory results of groundwater samples indicate concentrations of TPH, VOCs, and metals were below laboratory reporting limits or below MCLs, where established. PERC and TCE were both detected at concentrations of 4.1 µg/L in the groundwater sample collected beneath the parking lot of the Asian food store. These concentrations are below the MCL of 5.0 µg/L for both constituents; however, it should be noted that if construction dewatering is necessary during the planned development of the target property, the extracted groundwater will likely require testing for presence of contaminants such as PERC and TCE. Pumping and discharge of extracted groundwater should be done pursuant to a NPDES permit issued by the RWQCB. Additionally, engineering controls may be required for planned subsurface structures.

No further assessment of the target property is warranted.

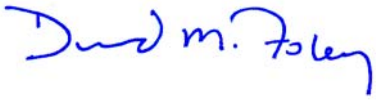
This report is intended only for the use of D. R. Horton Inc. (DHI) and its subsidiaries. If other parties wish to rely on this report, please have them contact us so that a mutual understanding and agreement of the terms and conditions for our services may be established prior to their use of this information.

This report is based on available information and was prepared in accordance with currently accepted geologic, hydrogeologic, and engineering practices. No other warranty is implied or intended. This report has been prepared for the sole use of DHI and applies only to the target property. Use of this report by third parties shall be at their sole risk.

If you have any questions or concerns, please contact Mr. David M. Foley at 916-853-4522 or via email at david.foley@ttemi.com.

Sincerely,

TETRA TECH EM INC.

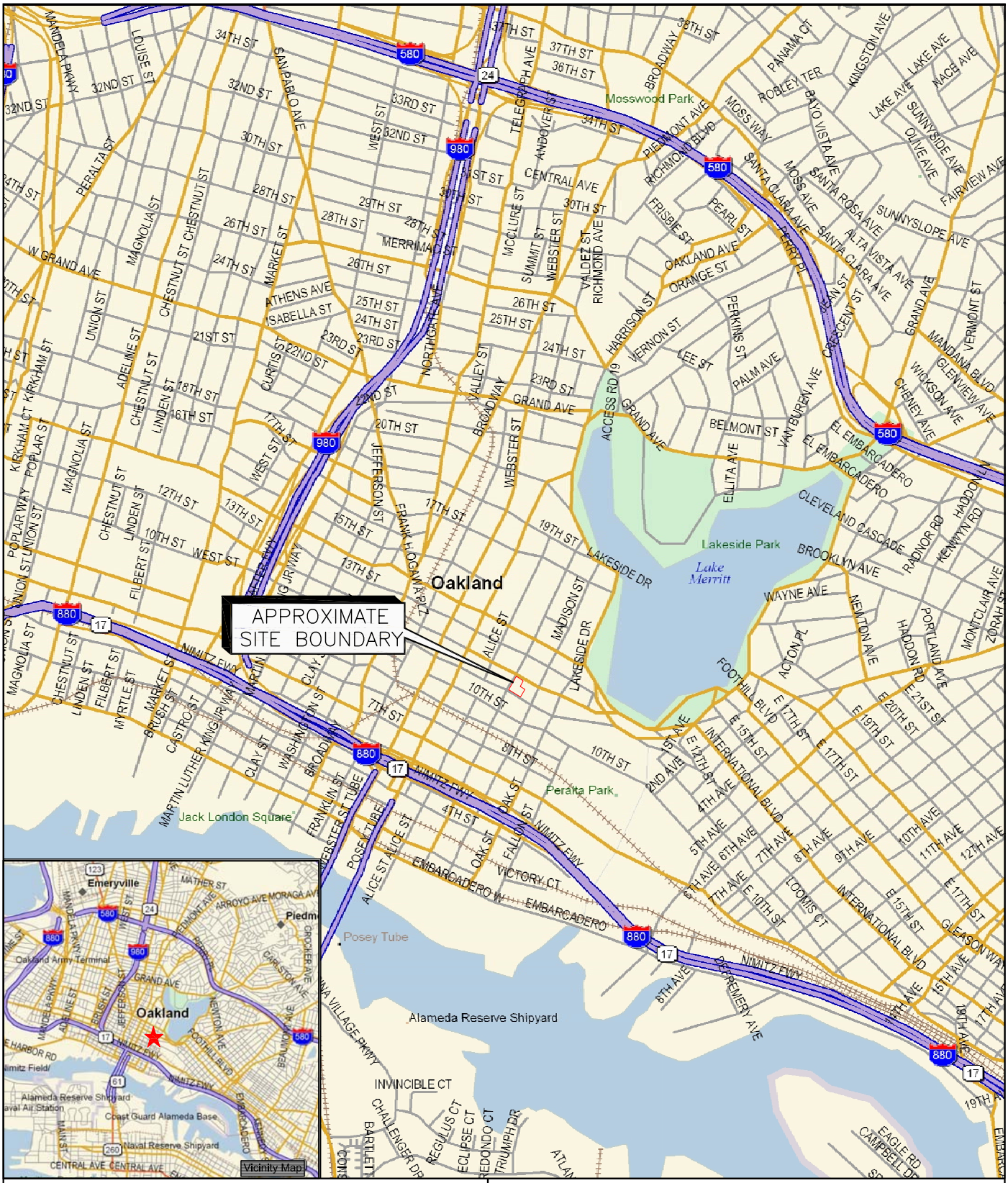


David M. Foley, P.G.
Project Manager

Attached: Figure 1
Figure 2
Attachment A – Soil Boring Permit
Attachment B – Soil Boring Logs
Attachment C – Certified Analytical Reports and Chain-of-Custody Documentation

Cc: Mr. Ed Perez – DHI, Fort Worth
Tetra Tech File Copy – Rancho Cordova

FIGURES



LEGEND

Target Property Boundary

N

0 1000' 2000'

APPROX. SCALE IN FEET

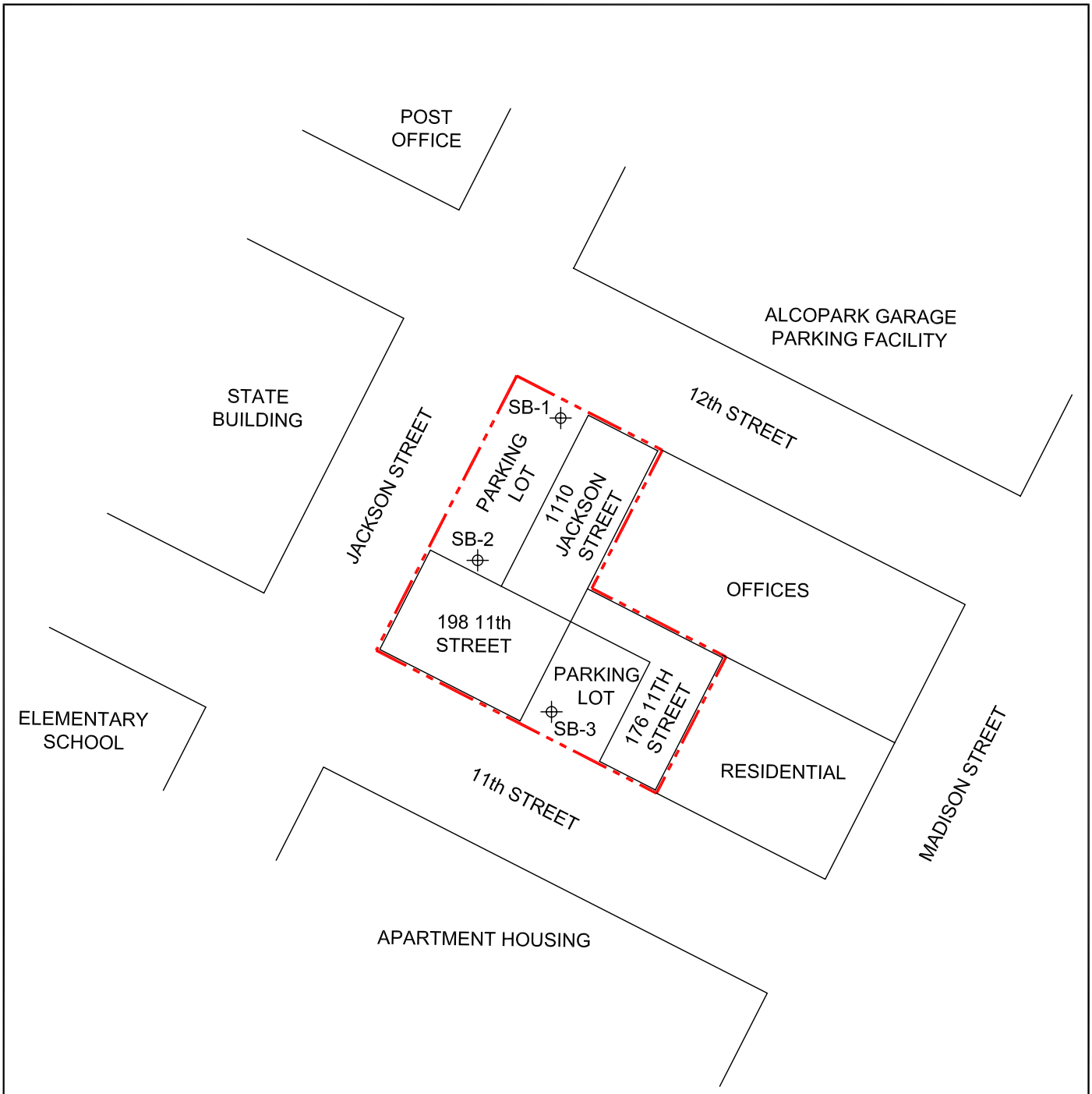
Source: Delome Street Atlas 2006

SITE LOCATION MAP
JACKSON TOWER
JACKSON STREET
OAKLAND, CA 94607

D·R·HORTON®

Tetra Tech EM Inc. Project P2261.06.1.BAD0.0030.2C

FIGURE 1



LEGEND

Target Property Boundary

Soil Boring

N

0 50' 100'

APPROX. SCALE IN FEET

SOURCE: TETRA TECH EM INC., 2005

SOIL BORING LOCATION MAP
JACKSON TOWER
JACKSON STREET
OAKLAND, CA 94607

D·R·HORTON®

Tetra Tech EM Inc. Project P2261.06.1.BAD0.0030.2C

FIGURE 2

ATTACHMENT A
SOIL BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/19/2005 By jamesy **Receipt Number: WR2005-2253**
Permits Issued: W2005-1195 **Permits Valid from 12/21/2005 to 12/27/2005**

Application Id: 1135013238254 **City of Project Site:** Oakland
Site Location: 11th St. to the South, Jackson St. to the West, 12th St. to the North (L-shaped property w/ 3 businesses), Oakland, CA
Project Start Date: 12/21/2005 **Completion Date:** 12/27/2005

Applicant: Tetra Tech EM Inc. - Robert Azam **Phone:** 916-769-3688
10860 Gold Center Dr #200, Rancho Cordova, CA 95670
Property Owner: Properties (see attached list) Three Seperate **Phone:** --
3 Seperate Tenants & Owners, Oakland, CA 01111
Client: ** same as Property Owner **
Contact: David Foley **Phone:** --
Cell: --

Total Due: $200.00
Total Amount Paid: $200.00
Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 3 Boreholes
Driller: Precision Sampling Inc. - Lic #: 636387 - Method: DP **Work Total: $200.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005-1195	12/19/2005	03/21/2006	3	2.00 in.	21.00 ft

Specific Work Permit Conditions

1. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

3. Applicant shall contact George Bolton for an inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

4. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

5. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

ATTACHMENT B
SOIL BORING LOGS

Tetra Tech EM Inc.
10670 White Rock Road, Suite 100
Rancho Cordova, California 95670
(916) 852-8300

BORING LOG

PROJECT NAME: Jackson Towers
PROJECT NUMBER: P2261.06.1.BAD0.0030.2C
SOIL BORING ☒ MONITORING WELL ☐

BORING NO.: SB-1
SHEET 1 OF

PROJECT LOCATION: 1110 Jackson Street, Oakland, Alameda County, CA	START DATE: 12-27-05 / COMPLETION DATE: 12-27-05
	COMPLETED DEPTH (FEET): 25' / GROUNDWATER DEPTH (FEET): 19' @ 1105
DRILLING CONTRACTOR: PSI	DRILLER: Roberto Estrada
DRILLING EQUIPMENT: Geoprobe XD-1 Dual wall	BORING DIAMETER: outer = 2 1/2" Inner = 1 3/4"
SAMPLING METHOD: California Modified ☐ Hand Auger ☐ DP ☒	WELL CONSTRUCTION
	TYPE AND DIAMETER OF WELL CASING: Temporary 1" Sched 40 PVC
	SLOT SIZE: 0.010 / FILTER MATERIAL: None
LOGGED BY: Bob Azam	BACKFILL MATERIAL: Grouted To surface by tremie
	WELL DEPTH: 25' / PERFORATED INTERVAL: 20-25'

TIME	DESCRIPTION	% Recovery / Blow Counts	DEPTH (FEET)	SAMPLE	USCS SOIL TYPE	LITHOLOGY	WELL	PID/FID OVA (ppm)	REMARKS
0830	Asphalt surface								
	Sand with trace silt, dark brown, very moist, loose, no odor. very fine sand							0	
	3' = color changes to light brown. Wet at 3'	100%			SM			0	▽ Perched water 3.5'-4'
0850			5						
	clay with 5-10% very fine sand, light brown, very moist, stiff, high plasticity, no odor	100			CL			0	
	7-10': same as above, increasing moisture. Trace orange mottles	100						0	NO odor
									NO free water
			10					0	
0905	10-13': Decrease in moisture to moist/ very moist; hard; increase in sand 15-20%,	100		SB-1-12'				0	NO odor
	Increasing sand 13-14.5': TO 30% Low plasticity from 13'							0	Hard drilling 13'-16'
	SAND with CLAY, brown, very moist							0	very moist to wet from 13' Increasing moisture
			15						
	to wet (not saturated), moderately				SC			0	Fine-med, subangular to subrounded
	dense, no odor. 30-40% clay, some							0	no odor sand
	plasticity. Increasing moisture at 15'	100						0	
0940	16'-19': decreasing clay to 25%, some silt							0	
	Clay with sand, brown to orange-							0	Hard drilling from 19' Increasing moisture
			20						
	brown, wet, high plasticity, soft, no odor	100			CL			0.2	19-22' = Slough
1010	10-15% very fine sand							0.7	no free water. Hard drilling
	Sand with silt, brown to light brown,				SM			0	fine, subrounded sand
	wet (saturated), moderately dense, no	80						0	
1055	odor. Dense at 24'; trace clay								
			25						
									SB-1-GW1 @ 1110
									DTW @ 1210 = 18.2'

Tetra Tech EM Inc.
10670 White Rock Road, Suite 100
Rancho Cordova, California 95670
(916) 852-8300

BORING LOG

PROJECT NAME: Jackson Towers
PROJECT NUMBER: P2261.06.1.BAD0.0030.2C
SOIL BORING ☒ MONITORING WELL ☐ ☐

BORING NO.: SB-2
SHEET 1 OF 1

PROJECT LOCATION: 1110 Jackson Street, Oakland, Alameda County, CA	START DATE: 12-27-05
	COMPLETION DATE: 12-27-05
	COMPLETED DEPTH (FEET): 25'
	GROUNDWATER DEPTH (FEET): ~~25'~~ 21' @ 1245
DRILLING CONTRACTOR: PSI	DRILLER: Roberto Estrada
DRILLING EQUIPMENT: Geoprobe x D-1 Dual wall	BORING DIAMETER: Outer = 2 1/2" Inner = 1 3/4"
SAMPLING METHOD: California Modified ☐ Hand Auger ☐ DP ☒	SLOT SIZE: 0.010"
	FILTER MATERIAL: None
LOGGED BY: Bob Azam	BACKFILL MATERIAL: Grouted to surface by tremie
	WELL DEPTH: 25'
	PERFORATED INTERVAL: 20-25'

WELL CONSTRUCTION
TYPE AND DIAMETER OF WELL CASING: Temporary 1" sched 40 PVC

TIME	DESCRIPTION	~~BLOW COUNTS~~	DEPTH (FEET)	SAMPLE	UCSC SOIL TYPE	LITHOLOGY	WELL	PID/FID READINGS OVA (ppm)	REMARKS
1125	Asphalt surface (~4") 2" layer of concrete Silty Sand, brown, loose, moist, no odor Changes color to light brown to brown at 3'	5%	5		SM	▽		Ø Ø	0-4': material fell out of sleeve, sand catcher did not catch material wet 3-4': Perched water
	Clay with sand, light brown to brown, moist to very moist, stiff, med plasticity, no odor trace silt changes color to orange brown at 8', increase in moisture to very moist	100% 100%	10		CL			Ø Ø Ø	very fine sand to 30%
1150	increasing sand and moisture Silty sand with clay, light brown to orange brown, very moist, loose to slightly dense, no odor 12.5': Clay with silt and sand, light brown to orange brown, very moist, slightly stiff, low to medium plasticity	100 100	12 13 15	X	SM/SC			Ø Ø Ø Ø	12.5-12.5': very moist to wet SB-2-12' @ 1155 Increasing moisture
1215	SAND with clay, orange-brown, very moist, slightly loose, no odor, 35-40% clay, some plasticity, changes color to brown-light brown at 17' Trace silt; 15-20% clay from 17' very moist to wet from 19'! No odor	100	19 20					Ø Ø Ø Ø	fine grained sand ~~slightly~~ moist 16-17.5' (Decrease in moisture 16-17.5') not enough moisture to produce water
1235	orange brown at 21', decreasing clay to 10% Sand with silt, trace clay, light grayish brown, wet (saturated), loose, no odor	100 100	25					Ø Ø Ø	No odor very fine to fine sand
									SB-2-GW2 @ 1250 DTW @ 1310 = 19.07

Tetra Tech EM Inc.
10670 White Rock Road, Suite 100
Rancho Cordova, California 95670
(916) 852-8300

BORING LOG

PROJECT NAME: Jackson Towers
PROJECT NUMBER: P2261.06.1.BADA.0030.2C
SOIL BORING ☒ MONITORING WELL ☐

BORING NO.: SB-3
SHEET 1 OF 1

PROJECT LOCATION: 176 11th Street, Oakland, Alameda County, CA	START DATE: 12-27-05
	COMPLETION DATE: 12-27-05
	COMPLETED DEPTH (FEET): 22
	GROUNDWATER DEPTH (FEET): 18' @ 1600, 19.17 @ 1615
DRILLING CONTRACTOR: PSI	DRILLER: Roberto Estrada
DRILLING EQUIPMENT: Geoprobe XD-1 Dual wall	BORING DIAMETER: Outer = 2 1/2" Inner = 1 3/4"
SAMPLING METHOD: California Modified ☐ Hand Auger ☐ DP ☒	SLOT SIZE: 0.010
	FILTER MATERIAL: None
LOGGED BY: Bob Azam	BACKFILL MATERIAL: Grouted to surface by tremie
	WELL DEPTH: ~~22~~ 25
	PERFORATED INTERVAL: 70-25 ~~17-22~~

WELL CONSTRUCTION

TIME	DESCRIPTION	% Recovery / BLOW COUNTS	DEPTH (FEET)	SAMPLE	UCSC SOIL TYPE	LITHOLOGY	WELL	PID/FID OVA (ppm)	REMARKS
1400	Asphalt surface = 4"-6" thick								
	Silty sand, trace clay, dark brown, wet, loose, no odor. ~~Trace silt~~	20%			SM			ø	very fine to fine sand. Low recovery. 0.5' PID reading from top of hole
	4.5': Clay with sand, light brown							ø	
	Very moist to wet, stiff, med plasticity, no odor. Trace silt	75%	5		CL			ø	fine sand 20-25%
	7-10': same as above with decreasing sand to 15%; orange-brown at 8.5'. Very stiff to hard 7-10'	100%						ø	Trace silt
			10					ø	
1435	SAND with clay, orange-brown, very moist to slightly wet, slightly dense, some plasticity, 20-25% clay decreasing in clay with depth; trace silt	100		X	SC			ø	Fine-medium subrounded/subangular sand
	wet from 14' - not enough to produce water	75%	15					ø	SB-3-12' @ 1435
								ø	brown to orange-brown 14'-16'
	17-19': 10-15% clay							ø	
	19': change color to lighter grayish-brown	80%						ø	no odor
	19': increasing clay content and moisture							ø	
	CLAY with sand, grayish-brown, very moist to wet, hard, medium plasticity, no odor		20		CL SC			ø	
1515	Sand with clay, grayish to orange brown, very moist to wet, slightly dense, no odor	100%			SC			ø	no odor
	20-22' Silty sand with ~~silty~~ trace clay, light brown to light grayish-brown, wet, loose, no odor. ~~Sample is wet not saturated but top of the 20-22' section not free water~~							ø	no odor. Not producing water. Very hard drilling from 22'. Driller suggests flowing sands
					Note well pushed down to 25'				fine sand.
									1555 set top well
									SB-5-GW3 @ 1605

Sloughs 19-22' ↓ but is reservoir stratum

Sloughs

ATTACHMENT C
CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

30 December 2005

David Foley
Tetra Tech -- Sacramento
10860 Gold Center Drive #200
Rancho Cordova, CA 95670

RE: Jackson Towers

Enclosed are the results of analyses for samples received by the laboratory on 12/28/05 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John Shepler
Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1-12'	T501565-01	Soil	12/27/05 09:05	12/28/05 10:00
SB-1-GW1	T501565-02	Water	12/27/05 11:10	12/28/05 10:00
SB-2-12'	T501565-03	Soil	12/27/05 11:55	12/28/05 10:00
SB-2-GW2	T501565-04	Water	12/27/05 12:50	12/28/05 10:00
SB-3-12'	T501565-05	Soil	12/27/05 14:35	12/28/05 10:00
SB-3-GW3	T501565-06	Water	12/27/05 16:05	12/28/05 10:00

SunStar Laboratories, Inc.

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



John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-1-12'
T501565-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015									
C6-C12 (GRO)	ND	10	mg/kg	1	5122818	12/28/05	12/29/05	EPA 8015m	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	5122822	12/28/05	12/29/05	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**70**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/29/05	"	
Cadmium	ND	2.0	"	"	"	"	12/29/05	"	
Chromium	**63**	2.0	"	"	"	"	"	"	
Cobalt	**7.1**	2.0	"	"	"	"	"	"	
Copper	**4.4**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**40**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**17**	5.0	"	"	"	"	"	"	
Zinc	**20**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	5122821	12/28/05	12/30/05	EPA 7471A Soil	

SunStar Laboratories, Inc.

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



John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-1-12'
T501565-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	2.0	ug/kg	1	5122817	12/28/05	12/28/05	EPA 8260B	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-1-12'
T501565-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	2.0	ug/kg	1	5122817	12/28/05	12/28/05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.2 %*	*85.8-113*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*73.5-115*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*79-126*		"	"	"	"	

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-1-GW1
T501565-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015									
C6-C12 (GRO)	ND	0.050	mg/l	1	5122823	12/28/05	12/29/05	EPA 8015m	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	50	ug/l	1	5122819	12/28/05	12/29/05	EPA 6010B	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	**94**	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	12/29/05	"	
Cadmium	ND	50	"	"	"	"	12/29/05	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	5122820	12/28/05	12/28/05	EPA 7470A Water	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-1-GW1
T501565-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	5122824	12/28/05	12/28/05	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-1-GW1
T501565-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	1.0	ug/l	1	5122824	12/28/05	12/28/05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*87.6-115*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-112*		"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*	*78.6-122*		"	"	"	"	

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-2-12'
T501565-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015									
C6-C12 (GRO)	ND	10	mg/kg	1	5122818	12/28/05	12/29/05	EPA 8015m	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	5122822	12/28/05	12/29/05	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**36**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/29/05	"	
Cadmium	ND	2.0	"	"	"	"	12/29/05	"	
Chromium	**48**	2.0	"	"	"	"	"	"	
Cobalt	**7.8**	2.0	"	"	"	"	"	"	
Copper	**2.6**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**35**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**16**	5.0	"	"	"	"	"	"	
Zinc	**18**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	5122821	12/28/05	12/30/05	EPA 7471A Soil	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-2-12'
T501565-03 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	2.0	ug/kg	1	5122817	12/28/05	12/29/05	EPA 8260B	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-2-12'
T501565-03 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	2.0	ug/kg	1	5122817	12/28/05	12/29/05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*	*85.8-113*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*73.5-115*		"	"	"	"	
Surrogate: Dibromofluoromethane		*123 %*	*79-126*		"	"	"	"	

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-2-GW2
T501565-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015									
C6-C12 (GRO)	ND	0.050	mg/l	1	5122823	12/28/05	12/29/05	EPA 8015m	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	50	ug/l	1	5122819	12/28/05	12/29/05	EPA 6010B	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	**110**	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	"	"	
Cadmium	ND	50	"	"	"	"	"	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	5122820	12/28/05	12/28/05	EPA 7470A Water	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-2-GW2
T501565-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	5122824	12/28/05	12/28/05	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-2-GW2
T501565-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	1.0	ug/l	1	5122824	12/28/05	12/28/05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*87.6-115*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*80-112*		"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*	*78.6-122*		"	"	"	"	

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-3-12'
T501565-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015									
C6-C12 (GRO)	ND	10	mg/kg	1	5122818	12/28/05	12/29/05	EPA 8015m	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	5122822	12/28/05	12/29/05	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**56**	1.0	"	"	"	"	12/29/05	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/29/05	"	
Chromium	**66**	2.0	"	"	"	"	"	"	
Cobalt	**6.5**	2.0	"	"	"	"	"	"	
Copper	**4.3**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**33**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**24**	5.0	"	"	"	"	"	"	
Zinc	**20**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	5122821	12/28/05	12/30/05	EPA 7471A Soil	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-3-12'
T501565-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	2.0	ug/kg	1	5122817	12/28/05	12/28/05	EPA 8260B	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-3-12'
T501565-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	2.0	ug/kg	1	5122817	12/28/05	12/28/05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*85.8-113*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*73.5-115*		"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*	*79-126*		"	"	"	"	

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-3-GW3
T501565-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015									
C6-C12 (GRO)	ND	0.050	mg/l	1	5122823	12/28/05	12/29/05	EPA 8015m	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	50	ug/l	1	5122819	12/28/05	12/29/05	EPA 6010B	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	**150**	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	"	"	
Cadmium	ND	50	"	"	"	"	"	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	5122820	12/28/05	12/28/05	EPA 7470A Water	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-3-GW3
T501565-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	5122824	12/28/05	12/28/05	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	

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John Shepler, Laboratory Director

Tetra Tech -- Sacramento	Project: Jackson Towers	
10860 Gold Center Drive #200	Project Number: [none]	**Reported:**
Rancho Cordova CA, 95670	Project Manager: David Foley	12/30/05 10:24

SB-3-GW3
T501565-06 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	1.0	ug/l	1	5122824	12/28/05	12/28/05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**4.1**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**4.1**	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*87.6-115*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-112*		"	"	"	"	
Surrogate: Dibromofluoromethane		*117 %*	*78.6-122*		"	"	"	"	

SunStar Laboratories, Inc.

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



John Shepler, Laboratory Director

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122818 - EPA 3550B GC										
Blank (5122818-BLK1)				Prepared: 12/28/05 Analyzed: 12/29/05						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
LCS (5122818-BS1)				Prepared: 12/28/05 Analyzed: 12/29/05						
C13-C28 (DRO)	510	10	mg/kg	500		102	75-125			
Matrix Spike (5122818-MS1)		**Source: T501565-01**		Prepared: 12/28/05 Analyzed: 12/29/05						
C13-C28 (DRO)	530	10	mg/kg	500	ND	106	75-125			
Matrix Spike Dup (5122818-MSD1)		**Source: T501565-01**		Prepared: 12/28/05 Analyzed: 12/29/05						
C13-C28 (DRO)	550	10	mg/kg	500	ND	110	75-125	3.70	20	
Batch 5122823 - EPA 3510C GC										
Blank (5122823-BLK1)				Prepared: 12/28/05 Analyzed: 12/29/05						
C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
LCS (5122823-BS1)				Prepared: 12/28/05 Analyzed: 12/29/05						
C13-C28 (DRO)	22.8	0.050	mg/l	20.0		114	75-125			
Matrix Spike (5122823-MS1)		**Source: T501565-02**		Prepared: 12/28/05 Analyzed: 12/29/05						
C13-C28 (DRO)	21.9	0.050	mg/l	20.0	ND	110	75-125			
Matrix Spike Dup (5122823-MSD1)		**Source: T501565-02**		Prepared: 12/28/05 Analyzed: 12/29/05						
C13-C28 (DRO)	21.9	0.050	mg/l	20.0	ND	110	75-125	0.00	20	

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122819 - EPA 3010A										
Blank (5122819-BLK1)				Prepared: 12/28/05 Analyzed: 12/29/05						
Antimony	ND	50	ug/l							
Silver	ND	50	"							
Arsenic	ND	50	"							
Barium	ND	50	"							
Beryllium	ND	50	"							
Cadmium	ND	50	"							
Chromium	ND	50	"							
Cobalt	ND	50	"							
Copper	ND	50	"							
Lead	ND	50	"							
Molybdenum	ND	50	"							
Nickel	ND	50	"							
Selenium	ND	50	"							
Thallium	ND	50	"							
Vanadium	ND	50	"							
Zinc	ND	50	"							
LCS (5122819-BS1)				Prepared: 12/28/05 Analyzed: 12/29/05						
Arsenic	1060	50	ug/l	1110		95.5	75-125			
Barium	1150	50	"	1110		104	75-125			
Cadmium	1150	50	"	1110		104	75-125			
Chromium	1100	50	"	1110		99.1	75-125			
Lead	1140	50	"	1110		103	75-125			
Matrix Spike (5122819-MS1)	**Source: T501565-02**			Prepared: 12/28/05 Analyzed: 12/29/05						
Arsenic	1180	50	ug/l	1110	ND	106	75-125			
Barium	1190	50	"	1110	94	98.7	75-125			
Cadmium	1090	50	"	1110	ND	98.2	75-125			
Chromium	1030	50	"	1110	ND	92.8	75-125			
Lead	998	50	"	1110	ND	89.9	75-125			

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122819 - EPA 3010A										
Matrix Spike Dup (5122819-MSD1)	**Source: T501565-02**			Prepared: 12/28/05 Analyzed: 12/29/05						
Arsenic	1150	50	ug/l	1110	ND	104	75-125	2.58	20	
Barium	1210	50	"	1110	94	101	75-125	1.67	20	
Cadmium	1110	50	"	1110	ND	100	75-125	1.82	20	
Chromium	1020	50	"	1110	ND	91.9	75-125	0.976	20	
Lead	983	50	"	1110	ND	88.6	75-125	1.51	20	
Batch 5122822 - EPA 3051										
Blank (5122822-BLK1)				Prepared: 12/28/05 Analyzed: 12/29/05						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							
Matrix Spike (5122822-MS1)	**Source: T501565-01**			Prepared: 12/28/05 Analyzed: 12/29/05						
Arsenic	103	5.0	mg/kg	100	ND	103	75-125			
Barium	175	1.0	"	100	70	105	75-125			
Cadmium	108	2.0	"	100	0.40	108	75-125			
Chromium	157	2.0	"	100	63	94.0	75-125			
Lead	109	3.0	"	100	1.7	107	75-125			

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122822 - EPA 3051										
Matrix Spike Dup (5122822-MSD1)	**Source: T501565-01**			Prepared: 12/28/05	Analyzed: 12/29/05					
Arsenic	101	5.0	mg/kg	100	ND	101	75-125	1.96	20	
Barium	177	1.0	"	100	70	107	75-125	1.14	20	
Cadmium	107	2.0	"	100	0.40	107	75-125	0.930	20	
Chromium	171	2.0	"	100	63	108	75-125	8.54	20	
Lead	110	3.0	"	100	1.7	108	75-125	0.913	20	

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122820 - EPA 7470A Water										
Blank (5122820-BLK1)				Prepared & Analyzed: 12/28/05						
Mercury	ND	0.50	ug/l							
LCS (5122820-BS1)				Prepared & Analyzed: 12/28/05						
Mercury	9.50	0.50	ug/l	10.3		92.2	75-125			
Matrix Spike (5122820-MS1)		**Source: T501565-02**		Prepared & Analyzed: 12/28/05						
Mercury	10.0	0.50	ug/l	10.3	ND	97.1	75-125			
Matrix Spike Dup (5122820-MSD1)		**Source: T501565-02**		Prepared & Analyzed: 12/28/05						
Mercury	9.69	0.50	ug/l	10.3	ND	94.1	75-125	3.15	20	
Batch 5122821 - EPA 7471A Soil										
Blank (5122821-BLK1)				Prepared: 12/28/05 Analyzed: 12/30/05						
Mercury	ND	0.10	mg/kg							
LCS (5122821-BS1)				Prepared: 12/28/05 Analyzed: 12/30/05						
Mercury	2.05	0.10	mg/kg	2.00		102	80-120			
Matrix Spike (5122821-MS1)		**Source: T501565-01**		Prepared: 12/28/05 Analyzed: 12/30/05						
Mercury	1.97	0.10	mg/kg	2.00	0.038	96.6	75-125			
Matrix Spike Dup (5122821-MSD1)		**Source: T501565-01**		Prepared: 12/28/05 Analyzed: 12/30/05						
Mercury	1.91	0.10	mg/kg	2.00	0.038	93.6	75-125	3.09	20	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122817 - EPA 5030 GCMS										
Blank (5122817-BLK1)				Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*97.0*		*ug/kg*	*100*		*97.0*	*85.8-113*			
Surrogate: 4-Bromofluorobenzene	*95.6*		*"*	*100*		*95.6*	*73.5-115*			
Surrogate: Dibromofluoromethane	*104*		*"*	*100*		*104*	*79-126*			
Bromobenzene	ND	2.0	"							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							
4-Chlorotoluene	ND	2.0	"							
Dibromochloromethane	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
Dibromomethane	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
Dichlorodifluoromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
1,3-Dichloropropane	ND	2.0	"							
2,2-Dichloropropane	ND	2.0	"							
1,1-Dichloropropene	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Hexachlorobutadiene	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	"							
Methylene chloride	ND	2.0	"							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122817 - EPA 5030 GCMS										
Blank (5122817-BLK1)				Prepared & Analyzed: 12/28/05						
Naphthalene	ND	2.0	ug/kg							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Tert-amyl methyl ether	ND	5.0	"							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
LCS (5122817-BS1)				Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*102*		*ug/kg*	*100*		*102*	*85.8-113*			
Surrogate: 4-Bromofluorobenzene	*99.5*		*"*	*100*		*99.5*	*73.5-115*			
Surrogate: Dibromofluoromethane	*117*		*"*	*100*		*117*	*79-126*			
Chlorobenzene	241	2.0	"	250		96.4	75-125			
1,1-Dichloroethene	268	2.0	"	250		107	75-125			
Trichloroethene	289	2.0	"	250		116	75-125			
Benzene	296	2.0	"	250		118	75-125			
Toluene	272	2.0	"	250		109	75-125			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122817 - EPA 5030 GCMS										
Matrix Spike (5122817-MS1)	**Source: T501565-01**			Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*103*		*ug/kg*	*100*		*103*	*85.8-113*			
Surrogate: 4-Bromofluorobenzene	*95.4*		*"*	*100*		*95.4*	*73.5-115*			
Surrogate: Dibromofluoromethane	*118*		*"*	*100*		*118*	*79-126*			
Chlorobenzene	194	2.0	"	250	ND	77.6	75-125			
1,1-Dichloroethene	233	2.0	"	250	ND	93.2	75-125			
Trichloroethene	235	2.0	"	250	ND	94.0	75-125			
Benzene	252	2.0	"	250	ND	101	75-125			
Toluene	221	2.0	"	250	ND	88.4	75-125			
Matrix Spike Dup (5122817-MSD1)	**Source: T501565-01**			Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*100*		*ug/kg*	*100*		*100*	*85.8-113*			
Surrogate: 4-Bromofluorobenzene	*96.5*		*"*	*100*		*96.5*	*73.5-115*			
Surrogate: Dibromofluoromethane	*115*		*"*	*100*		*115*	*79-126*			
Chlorobenzene	189	2.0	"	250	ND	75.6	75-125	2.61	20	
1,1-Dichloroethene	228	2.0	"	250	ND	91.2	75-125	2.17	20	
Trichloroethene	216	2.0	"	250	ND	86.4	75-125	8.43	20	
Benzene	229	2.0	"	250	ND	91.6	75-125	9.56	20	
Toluene	191	2.0	"	250	ND	76.4	75-125	14.6	20	
Batch 5122824 - EPA 5030 GCMS										
Blank (5122824-BLK1)				Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*39.7*		*ug/l*	*40.0*		*99.2*	*87.6-115*			
Surrogate: 4-Bromofluorobenzene	*41.3*		*"*	*40.0*		*103*	*80-112*			
Surrogate: Dibromofluoromethane	*43.0*		*"*	*40.0*		*108*	*78.6-122*			
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122824 - EPA 5030 GCMS										
Blank (5122824-BLK1)				Prepared & Analyzed: 12/28/05						
1,2-Dibromo-3-chloropropane	ND	1.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							

SunStar Laboratories, Inc.

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



John Shepler, Laboratory Director

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122824 - EPA 5030 GCMS										
Blank (5122824-BLK1)				Prepared & Analyzed: 12/28/05						
m,p-Xylene	ND	1.0	ug/l							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
LCS (5122824-BS1)				Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*39.4*		*ug/l*	*40.0*		*98.5*	*87.6-115*			
Surrogate: 4-Bromofluorobenzene	*39.9*		*"*	*40.0*		*99.8*	*80-112*			
Surrogate: Dibromofluoromethane	*45.3*		*"*	*40.0*		*113*	*78.6-122*			
Chlorobenzene	117	1.0	"	100		117	75-125			
1,1-Dichloroethene	95.7	1.0	"	100		95.7	75-125			
Trichloroethene	114	1.0	"	100		114	75-125			
Benzene	109	0.50	"	100		109	75-125			
Toluene	97.4	0.50	"	100		97.4	75-125			
Matrix Spike (5122824-MS1)	**Source: T501565-02**			Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*40.1*		*ug/l*	*40.0*		*100*	*87.6-115*			
Surrogate: 4-Bromofluorobenzene	*39.5*		*"*	*40.0*		*98.8*	*80-112*			
Surrogate: Dibromofluoromethane	*47.7*		*"*	*40.0*		*119*	*78.6-122*			
Chlorobenzene	116	1.0	"	100	ND	116	75-125			
1,1-Dichloroethene	107	1.0	"	100	ND	107	75-125			
Trichloroethene	102	1.0	"	100	ND	102	75-125			
Benzene	112	0.50	"	100	ND	112	75-125			
Toluene	93.4	0.50	"	100	ND	93.4	75-125			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5122824 - EPA 5030 GCMS										
Matrix Spike Dup (5122824-MSD1)	**Source: T501565-02**			Prepared & Analyzed: 12/28/05						
Surrogate: Toluene-d8	*39.9*		*ug/l*	*40.0*		*99.8*	*87.6-115*			
Surrogate: 4-Bromofluorobenzene	*39.0*		*"*	*40.0*		*97.5*	*80-112*			
Surrogate: Dibromofluoromethane	*46.2*		*"*	*40.0*		*116*	*78.6-122*			
Chlorobenzene	118	1.0	"	100	ND	118	75-125	1.71	20	
1,1-Dichloroethene	109	1.0	"	100	ND	109	75-125	1.85	20	
Trichloroethene	104	1.0	"	100	ND	104	75-125	1.94	20	
Benzene	114	0.50	"	100	ND	114	75-125	1.77	20	
Toluene	108	0.50	"	100	ND	108	75-125	14.5	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

T501565

CHAIN OF CUSTODY RECORD

Tetra Tech EM Inc.
10670 White Rock Road, Suite 100
Rancho Cordova, CA 95670
(916) 852-8300 FAX (916) 852-8397

DATE: 12-27-05
CHAIN OF CUSTODY NUMBER: No. 7606
LABORATORY NUMBER:
PAGE 1 OF 1

PROJECT NAME: Jackson Towers	PROJECT MANAGER: David Foley / Bob Azam
PROJECT NUMBER: P2261.06.1.BADP.0038 .2C	TELEPHONE NUMBER:
PROJECT LOCATION: Oakland	DESTINATION LABORATORY: Sunstar Laboratory
SAMPLER(S): Bob Azam	ADDRESS:
SAMPLER SIGNATURE(S): Bob Azam	CITY: Tustin STATE: CA ZIP:
SITE CONTACT/ TELEPHONE NUMBER: Bob Azam 916.769.3685	LABORATORY TELEPHONE NUMBER: Bill Hannell 530-304-5525

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME	TPH(G-C40) TPHd, TPHmo	CAM17 Metals (6010) Filter for fines	VOCs & Fuel oxygenates (8260B)	LAB ID	REMARKS (GRAB, COMPOSITE, ETC.)
SB-1-12'	12/27	0905	Soil	1-12" Acetate sleeve	By 12/29/05	X	X	X	01	
SB-1-GW1		1110	Water	6-VOAs 1-250ml Poly		X	X	X	02	
SB-2-12'		1155	Soil	1-12" Acetate sleeve		X	X	X	03	
SB-2-GW2		1250	Water	6-VOAs 1-250ml Poly		X	X	X	04	4
SB-3-12'		1435	Soil	1-12" Acetate sleeve		X	X	X	05	
SB-3-GW3		1605	Water	6-VOAs 1-250ml poly		X	X	X	06	

SHIPPED VIA: Courier
AIRBILL #:

SPECIAL INSTRUCTIONS: Filter groundwater sample at lab for fines (CAM17) VOAs are HCl preserved, Poly is HNO_3 preserved. Results by 12/29/05

RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
Bob Azam	Bob Azam/Tetra Tech	12/27/05	1911		Jaime Mizer	12/29/05	1911
GSO	GSO	12/28/05	1000		AARON HARRIS	12/28/05	1000
				RECEIVED AT LAB BY (PRINT AND SIGN):			

DISTRIBUTION: WHITE = LABORATORY YELLOW = PROJECT MANAGER PINK = FILE

APPENDIX C

SOIL BORING LOGS

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-1** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: J.S. Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							3 inches Concrete
1						SM	SILTY SAND (SM) dark brown, moist, loose, 85% sand, 15% fines
2							
3							CLAYEY SILTY SAND (SC-SM) red-brown, moist, loose
4							
5							
6				36/ 36"			CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, brown mottling, medium-grained
7					1.2	SC- SM	
8				48/ 48"			
9							
10							
11					0.9		
12				48/ 48"			CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, mottling, dense, 85% sand, 15% fines
13							SILTY SAND (SM) yellow-brown, moist, medium dense, 85% sand, 15% fines
14						SM	
15					1.1		dense, mottled, 90% sand, 10% fines
16							
17					1.2	SP	SAND (SP) olive-gray, moist, loose, fine to medium-grained, 95% sand, 5% fines
18				24/ 24"			SILTY SAND (SM) yellow-brown, moist, dense, mottled
19						SM	
20			▽	24/ 24"			SILTY SAND (SM) gray-brown, moist, medium-grained
21							
22				24/ 24"		SC	CLAYEY SAND (SC) yellow-brown, moist, low plasticity, very stiff
23							
24				24/ 24"		SM	SILTY SAND (SM) gray-brown, moist, dense, 85% sand, 15% fines
25					1.2		
26						SP	SAND (SP) gray, moist, dense, 95% sand, 5% fines
27				24/ 24"			
28							wet
29							
30							

Boring terminated at a depth of 27 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 20 feet below ground surface during drilling.

LANGAN TREADWELL ROLLO

Project No.:	Figure:
750622602	A-1

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-2** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: T. Houghton Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							4 inches asphalt
1–2						GP	SANDY GRAVEL (GP) dark brown, moist, loose
3–4						GM	GRAVELY SAND (GW) dark brown, moist, loose, 80% sand, 15% gravel, 5% fines
5–6				36/ 36”	16.3	SM	SILTY SAND with GRAVEL (SM) dark brown, moist, loose, medium-grained
7–8							
8–9				48/ 48”			
10–11						SC	CLAYEY SAND (SC) yellow-brown to dark brown, moist, medium- to fine-grained
12–13	EB-2-13				135	SM	SILTY SAND with GRAVEL (SM) dark brown, moist, loose, gravel <.5 inches, medium- to fine-grained
14–15					235	SM	SILTY SAND (SM) gray, moist, fine- to medium-grained
15–16	EB-2-15.5						
16–17				4/ 48”			unable to remove the 16 to 20 feet sample from tube switching to 2 feet runs
18–19							
19–20			▽				
20–21					282		SILTY SAND (SM) gray-brown, moist, mottled, medium-grained,
21–22				24/ 24"		SM	SILTY SAND (SM) gray-brown, moist, mottled, medium-grained, petroleum odor
22–23	EB-2-22.5				1300	SM	SILTY SAND (SM) gray, wet, dense, fine-grained, petroleum odor
23–24				24/ 24"	1040	SP	SAND (SP) gray, wet, fine-grained gravel layer at 24.5 feet, bottom 3 inches color brown
25–26							
26–27				24/ 24"	1905	SP	SAND (SP) brown, wet, fine-grained, stong petroleum odor, bottom 5 inches brown
27–28							
28–29							
29–30							

Boring terminated at a depth of 28 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 19.95 feet below ground surface during drilling.

LANGAN TREADWELL ROLLO

Project No.:	Figure:
750622602	A-2

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT:	**1110 JACKSON STREET** Oakland, California	**Log of Boring EB-3** PAGE 1 OF 1
Boring location: See Figure 2		Logged by: T. Houghton Drilled By: Gregg Drilling Co.
Date started: 8/11/16	Date finished: 8/11/16	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: Continuous		

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							1.5 inches concrete
1–5				36/36"		SM	SILTY SAND (SM) yellow-brown, moist, loose, 90% sand, 10% fines
5						SC	CLAYEY SAND (SC) yellow-brown, moist, brown mottling, medium plasticity
5–7					1.7	SC-SM	CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, brown mottling, low plasticity
7–8				48/48"			
8–12							moist, brown mottling, medium dense, 90% sand, 10% fines
12–13				48/48"			
13–14					1.2		moist, mottling, medium dense, 90% sand, 10% fines
14–16					3.1		
16–17				24/24"		SP	SAND (SP) red-brown, moist, loose, 95% sand, 5% fines
17–18					1.5	SM	SILTY SAND (SM) brown, moist, dense, 85% sand, 15% fines
18–20				24/24"		SC	CLAYEY SAND (SC) brown, moist, low plasticity
20			▽				
21					1.5	SM	SILTY SAND (SM) yellow-brown, moist, mottling, dense, , 90% sand, 10% fines
22–23				24/24"	1.8	SC-SM	CLAYEY SILTY SAND (SM) yellow-brown, moist, dense, 95% sand, 5% fines
24–25				24/24"	2.1	SP	SAND (SP) brown, wet, dense, no odor, 95% sand, 5% fines
26–27					2.1		SAND (SP) brown, wet, dense, 95% sand, 5% fines lamination at 26.5 feet
28–30							

Boring terminated at a depth of 28 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 20.35 feet below ground surface during drilling.

LANGAN TREADWELL ROLLO

Project No.:	Figure:
750622602	A-3

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

PROJECT: **1110 JACKSON STREET**
Oakland, California

Log of Boring EB-4

Boring location: See Figure 2

Logged by: T. Houghton
Drilled By: Gregg Drilling Co.

Date started: 8/11/16 | Date finished: 8/11/16

Drilling method: Direct Push

Hammer weight/drop: NA | Hammer type: NA

Sampler: Continuous

DEPTH (feet)	Sample Number	Sample	Water Level	Recovery (Inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
1–4						SM	SILTY SAND (SM) brown, moist, loose, medium-grained, gravel less than 1-inch, gravel subrounded to subangular, 80% sand, 10% gravel, 10% fines
5				36/36"			
6						SP-SC	SAND with CLAY (SP-SC) yellow-brown, moist, brown mottling, medium plasticity, 85% sand, 15% fines
7					3		
8–9						SC	CLAYEY SAND (SC) yellow-brown, moist, soft, low plasticity
10				48/48"			
11					6.1	SM	SILTY SAND (SM) yellow-brown, moist, mottled, medium dense, 85% sand, 15% silt
12				24/24"			
13–14					9.0	SC-SM	CLAYEY SILTY SAND (SC-SM) yellow-brown, moist, dense, fine-grained
15				24/24"	24.3		
16						SM	SILTY SAND (SM) gray-brown, moist, medium dense, fine-grained
17				24/24"	253		
18						SP	SAND (SP) gray-brown, moist, medium dense, fine-grained, 95% sand, 5% fines
19				24/24"			moist, dense, medium-grained, petroleum odor, 95% sand, 5%fine
20			▽				
21				24/24"	84		moist, dense, fine- to medium-grained, mild petroleum odor, 95% sand, 5% fines
22				24/24"	106		moist, dense, brown mottling, fine- to medium-grained, petroleum odor,
23–24							
25				24/24"	961		wet, loose, medium-grained, 95% sand, 5% fines
26							
27				24/24"			
28					1482 1274		SAND (SP) gray, wet, dense, medium-grained, 95% sand, 5% fines
29–30							

Boring terminated at a depth of 28 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 20.1 feet below ground surface during drilling.

LANGAN TREADWELL ROLLO

Project No.: 750622602 | Figure: A-4

TEST ENVIRONMENTAL INCHES 750622602 1110 JACKSON-ENVR.GPJ T&R.GDT 8/16/16

APPENDIX D

LABORATORY ANALYTICAL REPORT

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1608622

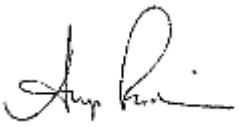
Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Noel Liner
Project P.O.:
Project Name: 750623602; 1110 Jackson

Project Received: 08/12/2016

Analytical Report reviewed & approved for release on 08/18/2016 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 750623602; 1110 Jackson
WorkOrder: 1608622

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 750623602; 1110 Jackson
WorkOrder: 1608622

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
b1	aqueous sample that contains greater than ~1 vol. % sediment
c2	surrogate recovery outside of the control limits due to matrix interference.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c7	Surrogate value diluted out of range
d1	weakly modified or unmodified gasoline is significant
d7/d9	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram; and/or no recognizable pattern
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11/e8	stoddard solvent/mineral spirit (?); and/or kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-13	1608622-001A	Soil	08/11/2016 08:40	GC18	125112

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	2.0	20	08/16/2016 16:10
tert-Amyl methyl ether (TAME)	ND	0.10	20	08/16/2016 16:10
Benzene	ND	0.10	20	08/16/2016 16:10
Bromobenzene	ND	0.10	20	08/16/2016 16:10
Bromochloromethane	ND	0.10	20	08/16/2016 16:10
Bromodichloromethane	ND	0.10	20	08/16/2016 16:10
Bromoform	ND	0.10	20	08/16/2016 16:10
Bromomethane	ND	0.10	20	08/16/2016 16:10
2-Butanone (MEK)	ND	0.40	20	08/16/2016 16:10
t-Butyl alcohol (TBA)	ND	1.0	20	08/16/2016 16:10
n-Butyl benzene	**0.14**	0.10	20	08/16/2016 16:10
sec-Butyl benzene	**0.13**	0.10	20	08/16/2016 16:10
tert-Butyl benzene	ND	0.10	20	08/16/2016 16:10
Carbon Disulfide	ND	0.10	20	08/16/2016 16:10
Carbon Tetrachloride	ND	0.10	20	08/16/2016 16:10
Chlorobenzene	ND	0.10	20	08/16/2016 16:10
Chloroethane	ND	0.10	20	08/16/2016 16:10
Chloroform	ND	0.10	20	08/16/2016 16:10
Chloromethane	ND	0.10	20	08/16/2016 16:10
2-Chlorotoluene	ND	0.10	20	08/16/2016 16:10
4-Chlorotoluene	ND	0.10	20	08/16/2016 16:10
Dibromochloromethane	ND	0.10	20	08/16/2016 16:10
1,2-Dibromo-3-chloropropane	ND	0.080	20	08/16/2016 16:10
1,2-Dibromoethane (EDB)	ND	0.080	20	08/16/2016 16:10
Dibromomethane	ND	0.10	20	08/16/2016 16:10
1,2-Dichlorobenzene	ND	0.10	20	08/16/2016 16:10
1,3-Dichlorobenzene	ND	0.10	20	08/16/2016 16:10
1,4-Dichlorobenzene	ND	0.10	20	08/16/2016 16:10
Dichlorodifluoromethane	ND	0.10	20	08/16/2016 16:10
1,1-Dichloroethane	ND	0.10	20	08/16/2016 16:10
1,2-Dichloroethane (1,2-DCA)	ND	0.080	20	08/16/2016 16:10
1,1-Dichloroethene	ND	0.10	20	08/16/2016 16:10
cis-1,2-Dichloroethene	ND	0.10	20	08/16/2016 16:10
trans-1,2-Dichloroethene	ND	0.10	20	08/16/2016 16:10
1,2-Dichloropropane	ND	0.10	20	08/16/2016 16:10
1,3-Dichloropropane	ND	0.10	20	08/16/2016 16:10
2,2-Dichloropropane	ND	0.10	20	08/16/2016 16:10

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-13	1608622-001A	Soil	08/11/2016 08:40	GC18	125112

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.10	20	08/16/2016 16:10
cis-1,3-Dichloropropene	ND	0.10	20	08/16/2016 16:10
trans-1,3-Dichloropropene	ND	0.10	20	08/16/2016 16:10
Diisopropyl ether (DIPE)	ND	0.10	20	08/16/2016 16:10
Ethylbenzene	ND	0.10	20	08/16/2016 16:10
Ethyl tert-butyl ether (ETBE)	ND	0.10	20	08/16/2016 16:10
Freon 113	ND	0.10	20	08/16/2016 16:10
Hexachlorobutadiene	ND	0.10	20	08/16/2016 16:10
Hexachloroethane	ND	0.10	20	08/16/2016 16:10
2-Hexanone	ND	0.10	20	08/16/2016 16:10
Isopropylbenzene	**0.14**	0.10	20	08/16/2016 16:10
4-Isopropyl toluene	ND	0.10	20	08/16/2016 16:10
Methyl-t-butyl ether (MTBE)	ND	0.10	20	08/16/2016 16:10
Methylene chloride	ND	0.10	20	08/16/2016 16:10
4-Methyl-2-pentanone (MIBK)	ND	0.10	20	08/16/2016 16:10
Naphthalene	**0.39**	0.10	20	08/16/2016 16:10
n-Propyl benzene	**0.20**	0.10	20	08/16/2016 16:10
Styrene	ND	0.10	20	08/16/2016 16:10
1,1,1,2-Tetrachloroethane	ND	0.10	20	08/16/2016 16:10
1,1,2,2-Tetrachloroethane	ND	0.10	20	08/16/2016 16:10
Tetrachloroethene	ND	0.10	20	08/16/2016 16:10
Toluene	ND	0.10	20	08/16/2016 16:10
1,2,3-Trichlorobenzene	ND	0.10	20	08/16/2016 16:10
1,2,4-Trichlorobenzene	ND	0.10	20	08/16/2016 16:10
1,1,1-Trichloroethane	ND	0.10	20	08/16/2016 16:10
1,1,2-Trichloroethane	ND	0.10	20	08/16/2016 16:10
Trichloroethene	ND	0.10	20	08/16/2016 16:10
Trichlorofluoromethane	ND	0.10	20	08/16/2016 16:10
1,2,3-Trichloropropane	ND	0.10	20	08/16/2016 16:10
1,2,4-Trimethylbenzene	ND	0.10	20	08/16/2016 16:10
1,3,5-Trimethylbenzene	ND	0.10	20	08/16/2016 16:10
Vinyl Chloride	ND	0.10	20	08/16/2016 16:10
Xylenes, Total	ND	0.10	20	08/16/2016 16:10

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-13	**1608622-001A**	**Soil**	**08/11/2016 08:40**	**GC18**	**125112**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	104		70-130		08/16/2016 16:10
Toluene-d8	113		70-130		08/16/2016 16:10
4-BFB	82		70-130		08/16/2016 16:10
Benzene-d6	117		60-140		08/16/2016 16:10
Ethylbenzene-d10	146	S	60-140		08/16/2016 16:10
1,2-DCB-d4	105		60-140		08/16/2016 16:10

Analyst(s): KF Analytical Comments: c7

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15.5	1608622-002A	Soil	08/11/2016	GC18	125112

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	40	400	08/16/2016 16:50
tert-Amyl methyl ether (TAME)	ND	2.0	400	08/16/2016 16:50
Benzene	ND	2.0	400	08/16/2016 16:50
Bromobenzene	ND	2.0	400	08/16/2016 16:50
Bromochloromethane	ND	2.0	400	08/16/2016 16:50
Bromodichloromethane	ND	2.0	400	08/16/2016 16:50
Bromoform	ND	2.0	400	08/16/2016 16:50
Bromomethane	ND	2.0	400	08/16/2016 16:50
2-Butanone (MEK)	ND	8.0	400	08/16/2016 16:50
t-Butyl alcohol (TBA)	ND	20	400	08/16/2016 16:50
n-Butyl benzene	**2.3**	2.0	400	08/16/2016 16:50
sec-Butyl benzene	**2.5**	2.0	400	08/16/2016 16:50
tert-Butyl benzene	ND	2.0	400	08/16/2016 16:50
Carbon Disulfide	ND	2.0	400	08/16/2016 16:50
Carbon Tetrachloride	ND	2.0	400	08/16/2016 16:50
Chlorobenzene	ND	2.0	400	08/16/2016 16:50
Chloroethane	ND	2.0	400	08/16/2016 16:50
Chloroform	ND	2.0	400	08/16/2016 16:50
Chloromethane	ND	2.0	400	08/16/2016 16:50
2-Chlorotoluene	ND	2.0	400	08/16/2016 16:50
4-Chlorotoluene	ND	2.0	400	08/16/2016 16:50
Dibromochloromethane	ND	2.0	400	08/16/2016 16:50
1,2-Dibromo-3-chloropropane	ND	1.6	400	08/16/2016 16:50
1,2-Dibromoethane (EDB)	ND	1.6	400	08/16/2016 16:50
Dibromomethane	ND	2.0	400	08/16/2016 16:50
1,2-Dichlorobenzene	ND	2.0	400	08/16/2016 16:50
1,3-Dichlorobenzene	ND	2.0	400	08/16/2016 16:50
1,4-Dichlorobenzene	ND	2.0	400	08/16/2016 16:50
Dichlorodifluoromethane	ND	2.0	400	08/16/2016 16:50
1,1-Dichloroethane	ND	2.0	400	08/16/2016 16:50
1,2-Dichloroethane (1,2-DCA)	ND	1.6	400	08/16/2016 16:50
1,1-Dichloroethene	ND	2.0	400	08/16/2016 16:50
cis-1,2-Dichloroethene	ND	2.0	400	08/16/2016 16:50
trans-1,2-Dichloroethene	ND	2.0	400	08/16/2016 16:50
1,2-Dichloropropane	ND	2.0	400	08/16/2016 16:50
1,3-Dichloropropane	ND	2.0	400	08/16/2016 16:50
2,2-Dichloropropane	ND	2.0	400	08/16/2016 16:50

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15.5	1608622-002A	Soil	08/11/2016	GC18	125112

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	2.0	400	08/16/2016 16:50
cis-1,3-Dichloropropene	ND	2.0	400	08/16/2016 16:50
trans-1,3-Dichloropropene	ND	2.0	400	08/16/2016 16:50
Diisopropyl ether (DIPE)	ND	2.0	400	08/16/2016 16:50
Ethylbenzene	ND	2.0	400	08/16/2016 16:50
Ethyl tert-butyl ether (ETBE)	ND	2.0	400	08/16/2016 16:50
Freon 113	ND	2.0	400	08/16/2016 16:50
Hexachlorobutadiene	ND	2.0	400	08/16/2016 16:50
Hexachloroethane	ND	2.0	400	08/16/2016 16:50
2-Hexanone	ND	2.0	400	08/16/2016 16:50
Isopropylbenzene	**4.2**	2.0	400	08/16/2016 16:50
4-Isopropyl toluene	ND	2.0	400	08/16/2016 16:50
Methyl-t-butyl ether (MTBE)	ND	2.0	400	08/16/2016 16:50
Methylene chloride	ND	2.0	400	08/16/2016 16:50
4-Methyl-2-pentanone (MIBK)	ND	2.0	400	08/16/2016 16:50
Naphthalene	**5.3**	2.0	400	08/16/2016 16:50
n-Propyl benzene	**5.1**	2.0	400	08/16/2016 16:50
Styrene	ND	2.0	400	08/16/2016 16:50
1,1,1,2-Tetrachloroethane	ND	2.0	400	08/16/2016 16:50
1,1,2,2-Tetrachloroethane	ND	2.0	400	08/16/2016 16:50
Tetrachloroethene	ND	2.0	400	08/16/2016 16:50
Toluene	ND	2.0	400	08/16/2016 16:50
1,2,3-Trichlorobenzene	ND	2.0	400	08/16/2016 16:50
1,2,4-Trichlorobenzene	ND	2.0	400	08/16/2016 16:50
1,1,1-Trichloroethane	ND	2.0	400	08/16/2016 16:50
1,1,2-Trichloroethane	ND	2.0	400	08/16/2016 16:50
Trichloroethene	ND	2.0	400	08/16/2016 16:50
Trichlorofluoromethane	ND	2.0	400	08/16/2016 16:50
1,2,3-Trichloropropane	ND	2.0	400	08/16/2016 16:50
1,2,4-Trimethylbenzene	ND	2.0	400	08/16/2016 16:50
1,3,5-Trimethylbenzene	ND	2.0	400	08/16/2016 16:50
Vinyl Chloride	ND	2.0	400	08/16/2016 16:50
Xylenes, Total	ND	2.0	400	08/16/2016 16:50

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15.5	**1608622-002A**	**Soil**	**08/11/2016**	**GC18**	**125112**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	103		70-130		08/16/2016 16:50
Toluene-d8	111		70-130		08/16/2016 16:50
4-BFB	87		70-130		08/16/2016 16:50
Benzene-d6	128		60-140		08/16/2016 16:50
Ethylbenzene-d10	463	S	60-140		08/16/2016 16:50
1,2-DCB-d4	161	S	60-140		08/16/2016 16:50

Analyst(s): KF Analytical Comments: c7

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-22.5	1608622-003A	Soil	08/11/2016	GC16	125159

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	2.0	20	08/16/2016 15:57
tert-Amyl methyl ether (TAME)	ND	0.10	20	08/16/2016 15:57
Benzene	ND	0.10	20	08/16/2016 15:57
Bromobenzene	ND	0.10	20	08/16/2016 15:57
Bromochloromethane	ND	0.10	20	08/16/2016 15:57
Bromodichloromethane	ND	0.10	20	08/16/2016 15:57
Bromoform	ND	0.10	20	08/16/2016 15:57
Bromomethane	ND	0.10	20	08/16/2016 15:57
2-Butanone (MEK)	ND	0.40	20	08/16/2016 15:57
t-Butyl alcohol (TBA)	ND	1.0	20	08/16/2016 15:57
n-Butyl benzene	**0.12**	0.10	20	08/16/2016 15:57
sec-Butyl benzene	**0.18**	0.10	20	08/16/2016 15:57
tert-Butyl benzene	ND	0.10	20	08/16/2016 15:57
Carbon Disulfide	ND	0.10	20	08/16/2016 15:57
Carbon Tetrachloride	ND	0.10	20	08/16/2016 15:57
Chlorobenzene	ND	0.10	20	08/16/2016 15:57
Chloroethane	ND	0.10	20	08/16/2016 15:57
Chloroform	ND	0.10	20	08/16/2016 15:57
Chloromethane	ND	0.10	20	08/16/2016 15:57
2-Chlorotoluene	ND	0.10	20	08/16/2016 15:57
4-Chlorotoluene	ND	0.10	20	08/16/2016 15:57
Dibromochloromethane	ND	0.10	20	08/16/2016 15:57
1,2-Dibromo-3-chloropropane	ND	0.080	20	08/16/2016 15:57
1,2-Dibromoethane (EDB)	ND	0.080	20	08/16/2016 15:57
Dibromomethane	ND	0.10	20	08/16/2016 15:57
1,2-Dichlorobenzene	ND	0.10	20	08/16/2016 15:57
1,3-Dichlorobenzene	ND	0.10	20	08/16/2016 15:57
1,4-Dichlorobenzene	ND	0.10	20	08/16/2016 15:57
Dichlorodifluoromethane	ND	0.10	20	08/16/2016 15:57
1,1-Dichloroethane	ND	0.10	20	08/16/2016 15:57
1,2-Dichloroethane (1,2-DCA)	ND	0.080	20	08/16/2016 15:57
1,1-Dichloroethene	ND	0.10	20	08/16/2016 15:57
cis-1,2-Dichloroethene	ND	0.10	20	08/16/2016 15:57
trans-1,2-Dichloroethene	ND	0.10	20	08/16/2016 15:57
1,2-Dichloropropane	ND	0.10	20	08/16/2016 15:57
1,3-Dichloropropane	ND	0.10	20	08/16/2016 15:57
2,2-Dichloropropane	ND	0.10	20	08/16/2016 15:57

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-22.5	1608622-003A	Soil	08/11/2016	GC16	125159

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.10	20	08/16/2016 15:57
cis-1,3-Dichloropropene	ND	0.10	20	08/16/2016 15:57
trans-1,3-Dichloropropene	ND	0.10	20	08/16/2016 15:57
Diisopropyl ether (DIPE)	ND	0.10	20	08/16/2016 15:57
Ethylbenzene	**0.52**	0.10	20	08/16/2016 15:57
Ethyl tert-butyl ether (ETBE)	ND	0.10	20	08/16/2016 15:57
Freon 113	ND	0.10	20	08/16/2016 15:57
Hexachlorobutadiene	ND	0.10	20	08/16/2016 15:57
Hexachloroethane	ND	0.10	20	08/16/2016 15:57
2-Hexanone	ND	0.10	20	08/16/2016 15:57
Isopropylbenzene	**0.33**	0.10	20	08/16/2016 15:57
4-Isopropyl toluene	ND	0.10	20	08/16/2016 15:57
Methyl-t-butyl ether (MTBE)	ND	0.10	20	08/16/2016 15:57
Methylene chloride	ND	0.10	20	08/16/2016 15:57
4-Methyl-2-pentanone (MIBK)	ND	0.10	20	08/16/2016 15:57
Naphthalene	**0.12**	0.10	20	08/16/2016 15:57
n-Propyl benzene	**0.33**	0.10	20	08/16/2016 15:57
Styrene	ND	0.10	20	08/16/2016 15:57
1,1,1,2-Tetrachloroethane	ND	0.10	20	08/16/2016 15:57
1,1,2,2-Tetrachloroethane	ND	0.10	20	08/16/2016 15:57
Tetrachloroethene	ND	0.10	20	08/16/2016 15:57
Toluene	ND	0.10	20	08/16/2016 15:57
1,2,3-Trichlorobenzene	ND	0.10	20	08/16/2016 15:57
1,2,4-Trichlorobenzene	ND	0.10	20	08/16/2016 15:57
1,1,1-Trichloroethane	ND	0.10	20	08/16/2016 15:57
1,1,2-Trichloroethane	ND	0.10	20	08/16/2016 15:57
Trichloroethene	ND	0.10	20	08/16/2016 15:57
Trichlorofluoromethane	ND	0.10	20	08/16/2016 15:57
1,2,3-Trichloropropane	ND	0.10	20	08/16/2016 15:57
1,2,4-Trimethylbenzene	**0.55**	0.10	20	08/16/2016 15:57
1,3,5-Trimethylbenzene	**0.25**	0.10	20	08/16/2016 15:57
Vinyl Chloride	ND	0.10	20	08/16/2016 15:57
Xylenes, Total	**0.31**	0.10	20	08/16/2016 15:57

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-22.5	**1608622-003A**	**Soil**	**08/11/2016**	**GC16**	**125159**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	113		70-130		08/16/2016 15:57
Toluene-d8	100		70-130		08/16/2016 15:57
4-BFB	103		70-130		08/16/2016 15:57
Benzene-d6	13	S	60-140		08/16/2016 15:57
Ethylbenzene-d10	49	S	60-140		08/16/2016 15:57
1,2-DCB-d4	12	S	60-140		08/16/2016 15:57

Analyst(s): KF Analytical Comments: c7

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-GW	**1608622-004A**	**Water**	**08/11/2016 14:50**	**GC16**	**125245**

Analytes	Result	RL	DF	Date Analyzed
Acetone	**630**	250	25	08/16/2016 13:58
tert-Amyl methyl ether (TAME)	ND	12	25	08/16/2016 13:58
Benzene	**320**	12	25	08/16/2016 13:58
Bromobenzene	ND	12	25	08/16/2016 13:58
Bromochloromethane	ND	12	25	08/16/2016 13:58
Bromodichloromethane	ND	12	25	08/16/2016 13:58
Bromoform	ND	12	25	08/16/2016 13:58
Bromomethane	ND	12	25	08/16/2016 13:58
2-Butanone (MEK)	**81**	50	25	08/16/2016 13:58
t-Butyl alcohol (TBA)	ND	50	25	08/16/2016 13:58
n-Butyl benzene	ND	12	25	08/16/2016 13:58
sec-Butyl benzene	**23**	12	25	08/16/2016 13:58
tert-Butyl benzene	ND	12	25	08/16/2016 13:58
Carbon Disulfide	ND	12	25	08/16/2016 13:58
Carbon Tetrachloride	ND	12	25	08/16/2016 13:58
Chlorobenzene	ND	12	25	08/16/2016 13:58
Chloroethane	ND	12	25	08/16/2016 13:58
Chloroform	ND	12	25	08/16/2016 13:58
Chloromethane	ND	12	25	08/16/2016 13:58
2-Chlorotoluene	ND	12	25	08/16/2016 13:58
4-Chlorotoluene	ND	12	25	08/16/2016 13:58
Dibromochloromethane	ND	12	25	08/16/2016 13:58
1,2-Dibromo-3-chloropropane	ND	5.0	25	08/16/2016 13:58
1,2-Dibromoethane (EDB)	ND	12	25	08/16/2016 13:58
Dibromomethane	ND	12	25	08/16/2016 13:58
1,2-Dichlorobenzene	ND	12	25	08/16/2016 13:58
1,3-Dichlorobenzene	ND	12	25	08/16/2016 13:58
1,4-Dichlorobenzene	ND	12	25	08/16/2016 13:58
Dichlorodifluoromethane	ND	12	25	08/16/2016 13:58
1,1-Dichloroethane	ND	12	25	08/16/2016 13:58
1,2-Dichloroethane (1,2-DCA)	ND	12	25	08/16/2016 13:58
1,1-Dichloroethene	ND	12	25	08/16/2016 13:58
cis-1,2-Dichloroethene	ND	12	25	08/16/2016 13:58
trans-1,2-Dichloroethene	ND	12	25	08/16/2016 13:58
1,2-Dichloropropane	ND	12	25	08/16/2016 13:58
1,3-Dichloropropane	ND	12	25	08/16/2016 13:58
2,2-Dichloropropane	ND	12	25	08/16/2016 13:58

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-GW	1608622-004A	Water	08/11/2016 14:50	GC16	125245

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	12	25	08/16/2016 13:58
cis-1,3-Dichloropropene	ND	12	25	08/16/2016 13:58
trans-1,3-Dichloropropene	ND	12	25	08/16/2016 13:58
Diisopropyl ether (DIPE)	ND	12	25	08/16/2016 13:58
Ethylbenzene	**740**	12	25	08/16/2016 13:58
Ethyl tert-butyl ether (ETBE)	ND	12	25	08/16/2016 13:58
Freon 113	ND	12	25	08/16/2016 13:58
Hexachlorobutadiene	ND	12	25	08/16/2016 13:58
Hexachloroethane	ND	12	25	08/16/2016 13:58
2-Hexanone	ND	12	25	08/16/2016 13:58
Isopropylbenzene	**150**	12	25	08/16/2016 13:58
4-Isopropyl toluene	ND	12	25	08/16/2016 13:58
Methyl-t-butyl ether (MTBE)	ND	12	25	08/16/2016 13:58
Methylene chloride	ND	12	25	08/16/2016 13:58
4-Methyl-2-pentanone (MIBK)	ND	12	25	08/16/2016 13:58
Naphthalene	**100**	12	25	08/16/2016 13:58
n-Propyl benzene	**110**	12	25	08/16/2016 13:58
Styrene	ND	12	25	08/16/2016 13:58
1,1,1,2-Tetrachloroethane	ND	12	25	08/16/2016 13:58
1,1,2,2-Tetrachloroethane	ND	12	25	08/16/2016 13:58
Tetrachloroethene	ND	12	25	08/16/2016 13:58
Toluene	ND	12	25	08/16/2016 13:58
1,2,3-Trichlorobenzene	ND	12	25	08/16/2016 13:58
1,2,4-Trichlorobenzene	ND	12	25	08/16/2016 13:58
1,1,1-Trichloroethane	ND	12	25	08/16/2016 13:58
1,1,2-Trichloroethane	ND	12	25	08/16/2016 13:58
Trichloroethene	ND	12	25	08/16/2016 13:58
Trichlorofluoromethane	ND	12	25	08/16/2016 13:58
1,2,3-Trichloropropane	ND	12	25	08/16/2016 13:58
1,2,4-Trimethylbenzene	**290**	12	25	08/16/2016 13:58
1,3,5-Trimethylbenzene	**92**	12	25	08/16/2016 13:58
Vinyl Chloride	ND	12	25	08/16/2016 13:58
Xylenes, Total	**430**	12	25	08/16/2016 13:58

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-GW	**1608622-004A**	**Water**	**08/11/2016 14:50**	**GC16**	**125245**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	117	70-130		08/16/2016 13:58
Toluene-d8	96	70-130		08/16/2016 13:58
4-BFB	97	70-130		08/16/2016 13:58

Analyst(s): KF Analytical Comments: b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-GW	**1608622-005A**	**Water**	**08/11/2016 15:05**	**GC16**	**125245**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	100	10	08/16/2016 14:41
tert-Amyl methyl ether (TAME)	ND	5.0	10	08/16/2016 14:41
Benzene	**110**	5.0	10	08/16/2016 14:41
Bromobenzene	ND	5.0	10	08/16/2016 14:41
Bromochloromethane	ND	5.0	10	08/16/2016 14:41
Bromodichloromethane	ND	5.0	10	08/16/2016 14:41
Bromoform	ND	5.0	10	08/16/2016 14:41
Bromomethane	ND	5.0	10	08/16/2016 14:41
2-Butanone (MEK)	ND	20	10	08/16/2016 14:41
t-Butyl alcohol (TBA)	ND	20	10	08/16/2016 14:41
n-Butyl benzene	ND	5.0	10	08/16/2016 14:41
sec-Butyl benzene	**14**	5.0	10	08/16/2016 14:41
tert-Butyl benzene	ND	5.0	10	08/16/2016 14:41
Carbon Disulfide	ND	5.0	10	08/16/2016 14:41
Carbon Tetrachloride	ND	5.0	10	08/16/2016 14:41
Chlorobenzene	ND	5.0	10	08/16/2016 14:41
Chloroethane	ND	5.0	10	08/16/2016 14:41
Chloroform	ND	5.0	10	08/16/2016 14:41
Chloromethane	ND	5.0	10	08/16/2016 14:41
2-Chlorotoluene	ND	5.0	10	08/16/2016 14:41
4-Chlorotoluene	ND	5.0	10	08/16/2016 14:41
Dibromochloromethane	ND	5.0	10	08/16/2016 14:41
1,2-Dibromo-3-chloropropane	ND	2.0	10	08/16/2016 14:41
1,2-Dibromoethane (EDB)	ND	5.0	10	08/16/2016 14:41
Dibromomethane	ND	5.0	10	08/16/2016 14:41
1,2-Dichlorobenzene	ND	5.0	10	08/16/2016 14:41
1,3-Dichlorobenzene	ND	5.0	10	08/16/2016 14:41
1,4-Dichlorobenzene	ND	5.0	10	08/16/2016 14:41
Dichlorodifluoromethane	ND	5.0	10	08/16/2016 14:41
1,1-Dichloroethane	ND	5.0	10	08/16/2016 14:41
1,2-Dichloroethane (1,2-DCA)	ND	5.0	10	08/16/2016 14:41
1,1-Dichloroethene	ND	5.0	10	08/16/2016 14:41
cis-1,2-Dichloroethene	**5.5**	5.0	10	08/16/2016 14:41
trans-1,2-Dichloroethene	ND	5.0	10	08/16/2016 14:41
1,2-Dichloropropane	ND	5.0	10	08/16/2016 14:41
1,3-Dichloropropane	ND	5.0	10	08/16/2016 14:41
2,2-Dichloropropane	ND	5.0	10	08/16/2016 14:41

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-GW	1608622-005A	Water	08/11/2016 15:05	GC16	125245

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	5.0	10	08/16/2016 14:41
cis-1,3-Dichloropropene	ND	5.0	10	08/16/2016 14:41
trans-1,3-Dichloropropene	ND	5.0	10	08/16/2016 14:41
Diisopropyl ether (DIPE)	ND	5.0	10	08/16/2016 14:41
Ethylbenzene	**250**	5.0	10	08/16/2016 14:41
Ethyl tert-butyl ether (ETBE)	ND	5.0	10	08/16/2016 14:41
Freon 113	ND	5.0	10	08/16/2016 14:41
Hexachlorobutadiene	ND	5.0	10	08/16/2016 14:41
Hexachloroethane	ND	5.0	10	08/16/2016 14:41
2-Hexanone	ND	5.0	10	08/16/2016 14:41
Isopropylbenzene	**100**	5.0	10	08/16/2016 14:41
4-Isopropyl toluene	**8.3**	5.0	10	08/16/2016 14:41
Methyl-t-butyl ether (MTBE)	ND	5.0	10	08/16/2016 14:41
Methylene chloride	ND	5.0	10	08/16/2016 14:41
4-Methyl-2-pentanone (MIBK)	ND	5.0	10	08/16/2016 14:41
Naphthalene	**7.9**	5.0	10	08/16/2016 14:41
n-Propyl benzene	**64**	5.0	10	08/16/2016 14:41
Styrene	ND	5.0	10	08/16/2016 14:41
1,1,1,2-Tetrachloroethane	ND	5.0	10	08/16/2016 14:41
1,1,2,2-Tetrachloroethane	ND	5.0	10	08/16/2016 14:41
Tetrachloroethene	ND	5.0	10	08/16/2016 14:41
Toluene	ND	5.0	10	08/16/2016 14:41
1,2,3-Trichlorobenzene	ND	5.0	10	08/16/2016 14:41
1,2,4-Trichlorobenzene	ND	5.0	10	08/16/2016 14:41
1,1,1-Trichloroethane	ND	5.0	10	08/16/2016 14:41
1,1,2-Trichloroethane	ND	5.0	10	08/16/2016 14:41
Trichloroethene	ND	5.0	10	08/16/2016 14:41
Trichlorofluoromethane	ND	5.0	10	08/16/2016 14:41
1,2,3-Trichloropropane	ND	5.0	10	08/16/2016 14:41
1,2,4-Trimethylbenzene	**19**	5.0	10	08/16/2016 14:41
1,3,5-Trimethylbenzene	ND	5.0	10	08/16/2016 14:41
Vinyl Chloride	ND	5.0	10	08/16/2016 14:41
Xylenes, Total	**27**	5.0	10	08/16/2016 14:41

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-GW	**1608622-005A**	**Water**	**08/11/2016 15:05**	**GC16**	**125245**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	121	70-130		08/16/2016 14:41
Toluene-d8	98	70-130		08/16/2016 14:41
4-BFB	88	70-130		08/16/2016 14:41

Analyst(s): KF Analytical Comments: b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-GW	1608622-006A	Water	08/11/2016 15:15	GC16	125245

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	50	5	08/15/2016 16:40
tert-Amyl methyl ether (TAME)	ND	2.5	5	08/15/2016 16:40
Benzene	ND	2.5	5	08/15/2016 16:40
Bromobenzene	ND	2.5	5	08/15/2016 16:40
Bromochloromethane	ND	2.5	5	08/15/2016 16:40
Bromodichloromethane	ND	2.5	5	08/15/2016 16:40
Bromoform	ND	2.5	5	08/15/2016 16:40
Bromomethane	ND	2.5	5	08/15/2016 16:40
2-Butanone (MEK)	ND	10	5	08/15/2016 16:40
t-Butyl alcohol (TBA)	ND	10	5	08/15/2016 16:40
n-Butyl benzene	ND	2.5	5	08/15/2016 16:40
sec-Butyl benzene	ND	2.5	5	08/15/2016 16:40
tert-Butyl benzene	ND	2.5	5	08/15/2016 16:40
Carbon Disulfide	ND	2.5	5	08/15/2016 16:40
Carbon Tetrachloride	ND	2.5	5	08/15/2016 16:40
Chlorobenzene	ND	2.5	5	08/15/2016 16:40
Chloroethane	ND	2.5	5	08/15/2016 16:40
Chloroform	ND	2.5	5	08/15/2016 16:40
Chloromethane	ND	2.5	5	08/15/2016 16:40
2-Chlorotoluene	ND	2.5	5	08/15/2016 16:40
4-Chlorotoluene	ND	2.5	5	08/15/2016 16:40
Dibromochloromethane	ND	2.5	5	08/15/2016 16:40
1,2-Dibromo-3-chloropropane	ND	1.0	5	08/15/2016 16:40
1,2-Dibromoethane (EDB)	ND	2.5	5	08/15/2016 16:40
Dibromomethane	ND	2.5	5	08/15/2016 16:40
1,2-Dichlorobenzene	ND	2.5	5	08/15/2016 16:40
1,3-Dichlorobenzene	ND	2.5	5	08/15/2016 16:40
1,4-Dichlorobenzene	ND	2.5	5	08/15/2016 16:40
Dichlorodifluoromethane	ND	2.5	5	08/15/2016 16:40
1,1-Dichloroethane	ND	2.5	5	08/15/2016 16:40
1,2-Dichloroethane (1,2-DCA)	ND	2.5	5	08/15/2016 16:40
1,1-Dichloroethene	ND	2.5	5	08/15/2016 16:40
cis-1,2-Dichloroethene	ND	2.5	5	08/15/2016 16:40
trans-1,2-Dichloroethene	ND	2.5	5	08/15/2016 16:40
1,2-Dichloropropane	ND	2.5	5	08/15/2016 16:40
1,3-Dichloropropane	ND	2.5	5	08/15/2016 16:40
2,2-Dichloropropane	ND	2.5	5	08/15/2016 16:40

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-GW	1608622-006A	Water	08/11/2016 15:15	GC16	125245

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	2.5	5	08/15/2016 16:40
cis-1,3-Dichloropropene	ND	2.5	5	08/15/2016 16:40
trans-1,3-Dichloropropene	ND	2.5	5	08/15/2016 16:40
Diisopropyl ether (DIPE)	ND	2.5	5	08/15/2016 16:40
Ethylbenzene	ND	2.5	5	08/15/2016 16:40
Ethyl tert-butyl ether (ETBE)	ND	2.5	5	08/15/2016 16:40
Freon 113	ND	2.5	5	08/15/2016 16:40
Hexachlorobutadiene	ND	2.5	5	08/15/2016 16:40
Hexachloroethane	ND	2.5	5	08/15/2016 16:40
2-Hexanone	ND	2.5	5	08/15/2016 16:40
Isopropylbenzene	ND	2.5	5	08/15/2016 16:40
4-Isopropyl toluene	ND	2.5	5	08/15/2016 16:40
Methyl-t-butyl ether (MTBE)	ND	2.5	5	08/15/2016 16:40
Methylene chloride	ND	2.5	5	08/15/2016 16:40
4-Methyl-2-pentanone (MIBK)	ND	2.5	5	08/15/2016 16:40
Naphthalene	ND	2.5	5	08/15/2016 16:40
n-Propyl benzene	ND	2.5	5	08/15/2016 16:40
Styrene	ND	2.5	5	08/15/2016 16:40
1,1,1,2-Tetrachloroethane	ND	2.5	5	08/15/2016 16:40
1,1,2,2-Tetrachloroethane	ND	2.5	5	08/15/2016 16:40
Tetrachloroethene	ND	2.5	5	08/15/2016 16:40
Toluene	ND	2.5	5	08/15/2016 16:40
1,2,3-Trichlorobenzene	ND	2.5	5	08/15/2016 16:40
1,2,4-Trichlorobenzene	ND	2.5	5	08/15/2016 16:40
1,1,1-Trichloroethane	ND	2.5	5	08/15/2016 16:40
1,1,2-Trichloroethane	ND	2.5	5	08/15/2016 16:40
Trichloroethene	ND	2.5	5	08/15/2016 16:40
Trichlorofluoromethane	ND	2.5	5	08/15/2016 16:40
1,2,3-Trichloropropane	ND	2.5	5	08/15/2016 16:40
1,2,4-Trimethylbenzene	ND	2.5	5	08/15/2016 16:40
1,3,5-Trimethylbenzene	ND	2.5	5	08/15/2016 16:40
Vinyl Chloride	ND	2.5	5	08/15/2016 16:40
Xylenes, Total	ND	2.5	5	08/15/2016 16:40

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-GW	**1608622-006A**	**Water**	**08/11/2016 15:15**	**GC16**	**125245**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	107	70-130		08/15/2016 16:40
Toluene-d8	97	70-130		08/15/2016 16:40
4-BFB	92	70-130		08/15/2016 16:40

Analyst(s): KF Analytical Comments: a3,b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-GW	1608622-007A	Water	08/11/2016 15:30	GC16	125245

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/15/2016 15:58
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/15/2016 15:58
Benzene	ND	0.50	1	08/15/2016 15:58
Bromobenzene	ND	0.50	1	08/15/2016 15:58
Bromochloromethane	ND	0.50	1	08/15/2016 15:58
Bromodichloromethane	ND	0.50	1	08/15/2016 15:58
Bromoform	ND	0.50	1	08/15/2016 15:58
Bromomethane	ND	0.50	1	08/15/2016 15:58
2-Butanone (MEK)	ND	2.0	1	08/15/2016 15:58
t-Butyl alcohol (TBA)	ND	2.0	1	08/15/2016 15:58
n-Butyl benzene	ND	0.50	1	08/15/2016 15:58
sec-Butyl benzene	ND	0.50	1	08/15/2016 15:58
tert-Butyl benzene	ND	0.50	1	08/15/2016 15:58
Carbon Disulfide	ND	0.50	1	08/15/2016 15:58
Carbon Tetrachloride	ND	0.50	1	08/15/2016 15:58
Chlorobenzene	ND	0.50	1	08/15/2016 15:58
Chloroethane	ND	0.50	1	08/15/2016 15:58
Chloroform	ND	0.50	1	08/15/2016 15:58
Chloromethane	ND	0.50	1	08/15/2016 15:58
2-Chlorotoluene	ND	0.50	1	08/15/2016 15:58
4-Chlorotoluene	ND	0.50	1	08/15/2016 15:58
Dibromochloromethane	ND	0.50	1	08/15/2016 15:58
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/15/2016 15:58
1,2-Dibromoethane (EDB)	ND	0.50	1	08/15/2016 15:58
Dibromomethane	ND	0.50	1	08/15/2016 15:58
1,2-Dichlorobenzene	ND	0.50	1	08/15/2016 15:58
1,3-Dichlorobenzene	ND	0.50	1	08/15/2016 15:58
1,4-Dichlorobenzene	ND	0.50	1	08/15/2016 15:58
Dichlorodifluoromethane	ND	0.50	1	08/15/2016 15:58
1,1-Dichloroethane	ND	0.50	1	08/15/2016 15:58
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/15/2016 15:58
1,1-Dichloroethene	ND	0.50	1	08/15/2016 15:58
cis-1,2-Dichloroethene	ND	0.50	1	08/15/2016 15:58
trans-1,2-Dichloroethene	ND	0.50	1	08/15/2016 15:58
1,2-Dichloropropane	ND	0.50	1	08/15/2016 15:58
1,3-Dichloropropane	ND	0.50	1	08/15/2016 15:58
2,2-Dichloropropane	ND	0.50	1	08/15/2016 15:58

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-GW	1608622-007A	Water	08/11/2016 15:30	GC16	125245

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/15/2016 15:58
cis-1,3-Dichloropropene	ND	0.50	1	08/15/2016 15:58
trans-1,3-Dichloropropene	ND	0.50	1	08/15/2016 15:58
Diisopropyl ether (DIPE)	ND	0.50	1	08/15/2016 15:58
Ethylbenzene	ND	0.50	1	08/15/2016 15:58
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/15/2016 15:58
Freon 113	ND	0.50	1	08/15/2016 15:58
Hexachlorobutadiene	ND	0.50	1	08/15/2016 15:58
Hexachloroethane	ND	0.50	1	08/15/2016 15:58
2-Hexanone	ND	0.50	1	08/15/2016 15:58
Isopropylbenzene	ND	0.50	1	08/15/2016 15:58
4-Isopropyl toluene	ND	0.50	1	08/15/2016 15:58
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/15/2016 15:58
Methylene chloride	ND	0.50	1	08/15/2016 15:58
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/15/2016 15:58
Naphthalene	ND	0.50	1	08/15/2016 15:58
n-Propyl benzene	ND	0.50	1	08/15/2016 15:58
Styrene	ND	0.50	1	08/15/2016 15:58
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/15/2016 15:58
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/15/2016 15:58
Tetrachloroethene	ND	0.50	1	08/15/2016 15:58
Toluene	ND	0.50	1	08/15/2016 15:58
1,2,3-Trichlorobenzene	ND	0.50	1	08/15/2016 15:58
1,2,4-Trichlorobenzene	ND	0.50	1	08/15/2016 15:58
1,1,1-Trichloroethane	ND	0.50	1	08/15/2016 15:58
1,1,2-Trichloroethane	ND	0.50	1	08/15/2016 15:58
Trichloroethene	ND	0.50	1	08/15/2016 15:58
Trichlorofluoromethane	ND	0.50	1	08/15/2016 15:58
1,2,3-Trichloropropane	ND	0.50	1	08/15/2016 15:58
1,2,4-Trimethylbenzene	ND	0.50	1	08/15/2016 15:58
1,3,5-Trimethylbenzene	ND	0.50	1	08/15/2016 15:58
Vinyl Chloride	ND	0.50	1	08/15/2016 15:58
Xylenes, Total	ND	0.50	1	08/15/2016 15:58

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/16/16	**Analytical Method:**	SW8260B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-GW	**1608622-007A**	**Water**	**08/11/2016 15:30**	**GC16**	**125245**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		08/15/2016 15:58
Toluene-d8	99	70-130		08/15/2016 15:58
4-BFB	95	70-130		08/15/2016 15:58

Analyst(s): KF Analytical Comments: b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750623602; 1110 Jackson	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-13	**1608622-001A**	**Soil**	**08/11/2016 08:40**	**GC19**	**125157**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**200**	10	10	08/16/2016 21:22
MTBE	---	0.50	10	08/16/2016 21:22
Benzene	---	0.050	10	08/16/2016 21:22
Toluene	---	0.050	10	08/16/2016 21:22
Ethylbenzene	---	0.050	10	08/16/2016 21:22
Xylenes	---	0.15	10	08/16/2016 21:22

Surrogates	REC (%)	Limits	
2-Fluorotoluene	129	70-130	08/16/2016 21:22

Analyst(s): IA Analytical Comments: d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15.5	**1608622-002A**	**Soil**	**08/11/2016**	**GC19**	**125157**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**5000**	200	200	08/16/2016 13:56
MTBE	---	10	200	08/16/2016 13:56
Benzene	---	1.0	200	08/16/2016 13:56
Toluene	---	1.0	200	08/16/2016 13:56
Ethylbenzene	---	1.0	200	08/16/2016 13:56
Xylenes	---	3.0	200	08/16/2016 13:56

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorotoluene	978	S	70-130	08/16/2016 13:56

Analyst(s): IA Analytical Comments: d9,c4

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/12/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750623602; 1110 Jackson	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-22.5	**1608622-003A**	**Soil**	**08/11/2016**	**GC19**	**125157**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2100**	200	200	08/14/2016 17:55
MTBE	---	10	200	08/14/2016 17:55
Benzene	---	1.0	200	08/14/2016 17:55
Toluene	---	1.0	200	08/14/2016 17:55
Ethylbenzene	---	1.0	200	08/14/2016 17:55
Xylenes	---	3.0	200	08/14/2016 17:55

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorotoluene	718	S	70-130	08/14/2016 17:55

Analyst(s): TD Analytical Comments: d7/d9,c2

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/17/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-GW	**1608622-004B**	**Water**	**08/11/2016 14:50**	**GC7**	**125253**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**30,000**	5000	100	08/16/2016 21:09
MTBE	---	500	100	08/16/2016 21:09
Benzene	---	50	100	08/16/2016 21:09
Toluene	---	50	100	08/16/2016 21:09
Ethylbenzene	---	50	100	08/16/2016 21:09
Xylenes	---	150	100	08/16/2016 21:09

Surrogates	REC (%)	Limits	
aaa-TFT	125	70-130	08/16/2016 21:09

Analyst(s): IA Analytical Comments: d1,d9,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-GW	**1608622-005B**	**Water**	**08/11/2016 15:05**	**GC7**	**125253**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**16,000**	500	10	08/17/2016 07:42
MTBE	---	50	10	08/17/2016 07:42
Benzene	---	5.0	10	08/17/2016 07:42
Toluene	---	5.0	10	08/17/2016 07:42
Ethylbenzene	---	5.0	10	08/17/2016 07:42
Xylenes	---	15	10	08/17/2016 07:42

Surrogates	REC (%)	Limits	
aaa-TFT	115	70-130	08/17/2016 07:42

Analyst(s): IA Analytical Comments: d1,d9,b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW5030B
Date Prepared:	8/15/16-8/17/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-GW	**1608622-006B**	**Water**	**08/11/2016 15:15**	**GC7**	**125253**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1600**	500	10	08/17/2016 08:13
MTBE	---	50	10	08/17/2016 08:13
Benzene	---	5.0	10	08/17/2016 08:13
Toluene	---	5.0	10	08/17/2016 08:13
Ethylbenzene	---	5.0	10	08/17/2016 08:13
Xylenes	---	15	10	08/17/2016 08:13

Surrogates	REC (%)	Limits	
aaa-TFT	101	70-130	08/17/2016 08:13

Analyst(s): IA Analytical Comments: d9,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-GW	**1608622-007B**	**Water**	**08/11/2016 15:30**	**GC7**	**125253**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	08/15/2016 18:48
MTBE	---	5.0	1	08/15/2016 18:48
Benzene	---	0.50	1	08/15/2016 18:48
Toluene	---	0.50	1	08/15/2016 18:48
Ethylbenzene	---	0.50	1	08/15/2016 18:48
Xylenes	---	1.5	1	08/15/2016 18:48

Surrogates	REC (%)	Limits	
aaa-TFT	108	70-130	08/15/2016 18:48

Analyst(s): IA Analytical Comments: b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW3050B
Date Prepared:	8/12/16	**Analytical Method:**	SW6020
Project:	750623602; 1110 Jackson	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-13	1608622-001A	Soil	08/11/2016 08:40	ICP-MS2	125151

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/15/2016 22:48
Chromium	**55**	0.50	1	08/15/2016 22:48
Lead	**2.4**	0.50	1	08/15/2016 22:48
Nickel	**48**	0.50	1	08/15/2016 22:48
Zinc	**24**	5.0	1	08/15/2016 22:48

Surrogates	REC (%)	Limits	
Terbium	101	70-130	08/15/2016 22:48

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15.5	1608622-002A	Soil	08/11/2016 08:50	ICP-MS2	125151

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/15/2016 22:54
Chromium	**45**	0.50	1	08/15/2016 22:54
Lead	**1.9**	0.50	1	08/15/2016 22:54
Nickel	**36**	0.50	1	08/15/2016 22:54
Zinc	**22**	5.0	1	08/15/2016 22:54

Surrogates	REC (%)	Limits	
Terbium	95	70-130	08/15/2016 22:54

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-22.5	1608622-003A	Soil	08/11/2016 09:01	ICP-MS2	125151

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/15/2016 23:19
Chromium	**110**	0.50	1	08/15/2016 23:19
Lead	**2.3**	0.50	1	08/15/2016 23:19
Nickel	**44**	0.50	1	08/15/2016 23:19
Zinc	**26**	5.0	1	08/15/2016 23:19

Surrogates	REC (%)	Limits	
Terbium	98	70-130	08/15/2016 23:19

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW3550B
Date Prepared:	8/12/16	**Analytical Method:**	SW8015B
Project:	750623602; 1110 Jackson	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-13	1608622-001A	Soil	08/11/2016 08:40	GC11A	125140

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**18**	1.0	1	08/15/2016 22:45
TPH-Motor Oil (C18-C36)	**5.5**	5.0	1	08/15/2016 22:45

Surrogates	REC (%)	Limits	
C9	99	70-130	08/15/2016 22:45

Analyst(s): TK Analytical Comments: e4,e11/e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15.5	1608622-002A	Soil	08/11/2016	GC11A	125140

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**830**	1.0	1	08/15/2016 23:24
TPH-Motor Oil (C18-C36)	**13**	5.0	1	08/15/2016 23:24

Surrogates	REC (%)	Limits	
C9	93	70-130	08/15/2016 23:24

Analyst(s): TK Analytical Comments: e11,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-22.5	1608622-003A	Soil	08/11/2016	GC11A	125140

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**370**	1.0	1	08/16/2016 00:03
TPH-Motor Oil (C18-C36)	**14**	5.0	1	08/16/2016 00:03

Surrogates	REC (%)	Limits	
C9	93	70-130	08/16/2016 00:03

Analyst(s): TK Analytical Comments: e11,e8

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW3510C
Date Prepared:	8/12/16	**Analytical Method:**	SW8015B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-GW	**1608622-004B**	**Water**	**08/11/2016 14:50**	**GC11A**	**125114**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**55,000**	500	5	08/15/2016 20:09
TPH-Motor Oil (C18-C36)	ND	2500	5	08/15/2016 20:09

Surrogates	REC (%)	Limits	
C26	93	70-130	08/15/2016 20:09

Analyst(s): TK Analytical Comments: e4,a3,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-GW	**1608622-005B**	**Water**	**08/11/2016 15:05**	**GC6A**	**125114**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2300**	50	1	08/14/2016 06:46
TPH-Motor Oil (C18-C36)	**520**	250	1	08/14/2016 06:46

Surrogates	REC (%)	Limits	
C9	103	70-130	08/14/2016 06:46

Analyst(s): TK Analytical Comments: e4,e7,e2,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-GW	**1608622-006B**	**Water**	**08/11/2016 15:15**	**GC6B**	**125114**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3200**	50	1	08/14/2016 00:18
TPH-Motor Oil (C18-C36)	ND	250	1	08/14/2016 00:18

Surrogates	REC (%)	Limits	
C9	109	70-130	08/14/2016 00:18

Analyst(s): TK Analytical Comments: e4,b1

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Received:	8/12/16 14:15	**Extraction Method:**	SW3510C
Date Prepared:	8/12/16	**Analytical Method:**	SW8015B
Project:	750623602; 1110 Jackson	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-GW	**1608622-007B**	**Water**	**08/11/2016 15:30**	**GC6B**	**125114**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	08/13/2016 23:00
TPH-Motor Oil (C18-C36)	ND	500	1	08/13/2016 23:00

Surrogates	REC (%)	Limits	
C9	98	70-130	08/13/2016 23:00

Analyst(s): TK Analytical Comments: a3,b1

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/11/16	**BatchID:**	125112
Date Analyzed:	8/13/16	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125112 1608594-015AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0404	0.0050	0.050	-	81	53-116
Benzene	ND	0.0491	0.0050	0.050	-	98	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.163	0.050	0.20	-	81	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0468	0.0050	0.050	-	94	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0452	0.0040	0.050	-	90	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0437	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0495	0.0050	0.050	-	99	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/11/16	**BatchID:**	125112
Date Analyzed:	8/13/16	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125112 1608594-015AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0428	0.0050	0.050	-	86	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0433	0.0050	0.050	-	87	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0434	0.0050	0.050	-	87	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0528	0.0050	0.050	-	106	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0579	0.0050	0.050	-	116	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/11/16	**BatchID:**	125112
Date Analyzed:	8/13/16	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125112 1608594-015AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.120	0.120		0.12	96	96	70-130
Toluene-d8	0.138	0.140		0.12	111	112	70-130
4-BFB	0.0116	0.0116		0.012	93	93	70-130
Benzene-d6	0.119	0.130		0.10	119	130	60-140
Ethylbenzene-d10	0.132	0.137		0.10	132	137	60-140
1,2-DCB-d4	0.0862	0.0872		0.10	86	87	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0431	0.0423	0.050	ND	86	85	53-116	2.00	20
Benzene	0.0482	0.0468	0.050	ND	96	94	63-137	3.12	20
t-Butyl alcohol (TBA)	0.198	0.190	0.20	ND	99	95	41-135	4.12	20
Chlorobenzene	0.0463	0.0449	0.050	ND	93	90	77-121	3.07	20
1,2-Dibromoethane (EDB)	0.0462	0.0447	0.050	ND	92	89	67-119	3.19	20
1,2-Dichloroethane (1,2-DCA)	0.0438	0.0430	0.050	ND	88	86	58-135	1.88	20
1,1-Dichloroethene	0.0491	0.0472	0.050	ND	98	94	42-145	4.05	20
Diisopropyl ether (DIPE)	0.0426	0.0416	0.050	ND	85	83	52-129	2.34	20
Ethyl tert-butyl ether (ETBE)	0.0445	0.0434	0.050	ND	89	87	53-125	2.46	20
Methyl-t-butyl ether (MTBE)	0.0458	0.0444	0.050	ND	92	89	58-122	3.08	20
Toluene	0.0510	0.0493	0.050	ND	102	99	76-130	3.44	20
Trichloroethene	0.0496	0.0483	0.050	ND	99	97	72-132	2.78	20
Surrogate Recovery									
Dibromofluoromethane	0.122	0.122	0.12		97	97	70-130	0	20
Toluene-d8	0.136	0.136	0.12		108	109	70-130	0.235	20
4-BFB	0.0117	0.0121	0.012		94	97	70-130	3.29	20
Benzene-d6	0.124	0.116	0.10		124	116	60-140	6.43	20
Ethylbenzene-d10	0.127	0.124	0.10		127	124	60-140	2.14	20
1,2-DCB-d4	0.0855	0.0848	0.10		85	85	60-140	0	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125159
Date Analyzed:	8/12/16	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125159 1608622-008AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0419	0.0050	0.050	-	84	53-116
Benzene	ND	0.0450	0.0050	0.050	-	90	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.178	0.050	0.20	-	89	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0440	0.0050	0.050	-	88	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0436	0.0040	0.050	-	87	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0424	0.0040	0.050	-	85	58-135
1,1-Dichloroethene	ND	0.0442	0.0050	0.050	-	88	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125159
Date Analyzed:	8/12/16	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125159 1608622-008AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0409	0.0050	0.050	-	82	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0424	0.0050	0.050	-	85	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0433	0.0050	0.050	-	87	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0485	0.0050	0.050	-	97	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0455	0.0050	0.050	-	91	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125159
Date Analyzed:	8/12/16	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125159 1608622-008AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.123	0.122		0.12	98	98	70-130
Toluene-d8	0.137	0.140		0.12	109	112	70-130
4-BFB	0.0117	0.0117		0.012	93	94	70-130
Benzene-d6	0.120	0.120		0.10	120	120	60-140
Ethylbenzene-d10	0.130	0.127		0.10	130	127	60-140
1,2-DCB-d4	0.0871	0.0853		0.10	87	85	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0381	0.0390	0.050	ND	76	78	53-116	2.20	20
Benzene	0.0435	0.0436	0.050	ND	87	87	63-137	0	20
t-Butyl alcohol (TBA)	0.170	0.176	0.20	ND	85	88	41-135	3.07	20
Chlorobenzene	0.0426	0.0438	0.050	ND	80	83	77-121	2.72	20
1,2-Dibromoethane (EDB)	0.0420	0.0430	0.050	ND	84	86	67-119	2.28	20
1,2-Dichloroethane (1,2-DCA)	0.0400	0.0400	0.050	ND	80	80	58-135	0	20
1,1-Dichloroethene	0.0455	0.0459	0.050	ND	91	92	42-145	0.957	20
Diisopropyl ether (DIPE)	0.0389	0.0385	0.050	ND	78	77	52-129	1.14	20
Ethyl tert-butyl ether (ETBE)	0.0404	0.0404	0.050	ND	81	81	53-125	0	20
Methyl-t-butyl ether (MTBE)	0.0408	0.0413	0.050	ND	82	83	58-122	1.19	20
Toluene	0.0458	0.0470	0.050	ND	92	94	76-130	2.42	20
Trichloroethene	0.0806	0.0809	0.050	ND	161,F1	162,F1	72-132	0.390	20
Surrogate Recovery									
Dibromofluoromethane	0.122	0.120	0.12		97	96	70-130	1.44	20
Toluene-d8	0.142	0.146	0.12		113	117	70-130	2.97	20
4-BFB	0.0127	0.0130	0.012		102	104	70-130	2.49	20
Benzene-d6	0.125	0.112	0.10		125	112	60-140	11.3	20
Ethylbenzene-d10	0.120	0.121	0.10		120	121	60-140	0.648	20
1,2-DCB-d4	0.0844	0.0843	0.10		84	84	60-140	0	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/15/16	**BatchID:**	125245
Date Analyzed:	8/15/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125245 1608622-007AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	9.17	0.50	10	-	92	54-140
Benzene	ND	10.3	0.50	10	-	103	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	28.4	2.0	40	-	71	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	10.1	0.50	10	-	101	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.15	0.50	10	-	91	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.94	0.50	10	-	99	66-125
1,1-Dichloroethene	ND	10.7	0.50	10	-	107	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/15/16	**BatchID:**	125245
Date Analyzed:	8/15/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125245 1608622-007AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	9.75	0.50	10	-	98	57-136
Ethanol	ND	-	50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.59	0.50	10	-	96	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	9.03	0.50	10	-	90	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	10.1	0.50	10	-	101	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	10.6	0.50	10	-	106	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/15/16	**BatchID:**	125245
Date Analyzed:	8/15/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125245 1608622-007AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	26.5	26.7		25	106	107	70-130
Toluene-d8	25.4	25.3		25	101	101	70-130
4-BFB	2.68	2.61		2.5	107	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	10.7	10.3	10	ND	107	103	69-139	3.70	20
Benzene	10.4	10.3	10	ND	103	102	69-141	1.48	20
t-Butyl alcohol (TBA)	41.4	38.2	40	ND	103	96	41-152	7.86	20
Chlorobenzene	9.89	9.84	10	ND	99	98	77-120	0.476	20
1,2-Dibromoethane (EDB)	10.5	9.98	10	ND	105	100	76-135	5.52	20
1,2-Dichloroethane (1,2-DCA)	10.9	10.6	10	ND	109	106	73-139	2.93	20
1,1-Dichloroethene	10.5	10.4	10	ND	105	104	59-140	1.15	20
Diisopropyl ether (DIPE)	10.5	10.3	10	ND	105	103	72-140	2.07	20
Ethyl tert-butyl ether (ETBE)	10.9	10.6	10	ND	109	106	71-140	2.49	20
Methyl-t-butyl ether (MTBE)	11.0	10.5	10	ND	110	105	73-139	5.10	20
Toluene	9.63	9.57	10	ND	95	95	71-128	0	20
Trichloroethene	10.5	10.3	10	ND	105	103	64-132	1.92	20
Surrogate Recovery									
Dibromofluoromethane	27.6	27.3	25		111	109	73-131	1.11	20
Toluene-d8	24.4	24.5	25		98	98	72-117	0	20
4-BFB	2.48	2.51	2.5		99	100	74-116	0.951	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125157
Date Analyzed:	8/13/16	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125157 1608622-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.653	0.40	0.60	-	109	70-130
MTBE	ND	0.104	0.050	0.10	-	104	70-130
Benzene	ND	0.0975	0.0050	0.10	-	98	70-130
Toluene	ND	0.101	0.0050	0.10	-	101	70-130
Ethylbenzene	ND	0.100	0.0050	0.10	-	101	70-130
Xylenes	ND	0.306	0.015	0.30	-	102	70-130
Surrogate Recovery							
2-Fluorotoluene	0.103	0.101		0.10	103	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		1300	NR	NR	-	NR	
MTBE	NR	NR		ND<10	NR	NR	-	NR	
Benzene	NR	NR		ND<1	NR	NR	-	NR	
Toluene	NR	NR		2.8	NR	NR	-	NR	
Ethylbenzene	NR	NR		8.4	NR	NR	-	NR	
Xylenes	NR	NR		48	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/15/16 - 8/16/16	**BatchID:**	125253
Date Analyzed:	8/15/16 - 8/16/16	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125253 1608661-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	54.0	40	60	-	90	70-130
MTBE	ND	10.2	5.0	10	-	102	70-130
Benzene	ND	11.0	0.50	10	-	109	70-130
Toluene	ND	10.6	0.50	10	-	106	70-130
Ethylbenzene	ND	10.4	0.50	10	-	104	70-130
Xylenes	ND	31.0	1.5	30	-	104	70-130
Surrogate Recovery							
aaa-TFT	10.6	11.7		10	106	117	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	58.0	55.1	60	ND	97	92	70-130	5.18	20
MTBE	9.08	8.53	10	ND	91	85	70-130	6.33	20
Benzene	10.3	9.68	10	ND	103	97	70-130	6.00	20
Toluene	9.83	9.52	10	ND	98	95	70-130	3.15	20
Ethylbenzene	10.1	9.71	10	ND	101	97	70-130	3.97	20
Xylenes	31.0	29.8	30	ND	103	99	70-130	3.94	20
Surrogate Recovery									
aaa-TFT	11.1	10.6	10		111	106	70-130	4.45	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125151
Date Analyzed:	8/15/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125151 1608614-005AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	54.3	0.25	50	-	109	75-125
Chromium	ND	54.4	0.50	50	-	109	75-125
Lead	ND	53.7	0.50	50	-	107	75-125
Nickel	ND	55.7	0.50	50	-	111	75-125
Zinc	ND	562	5.0	500	-	112	75-125
Surrogate Recovery							
Terbium	511	532		500	102	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	55.3	52.6	50	ND	110	105	75-125	4.99	20
Chromium	125	120	50	73.13	104	95	75-125	3.75	20
Lead	65.5	59.8	50	10.89	109	98	75-125	9.00	20
Nickel	160	154	50	116.9	86	74,F10	75-125	3.76	20
Zinc	633	605	500	92.77	108	103	75-125	4.51	20
Surrogate Recovery									
Terbium	570	526	500		114	105	70-130	7.96	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Cadmium	ND<1.2	ND	-	-
Chromium	74.6	73.13	2.01	20
Lead	10.5	10.89	3.58	-
Nickel	112	116.9	4.19	20
Zinc	90.8	92.77	2.12	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125151
Date Analyzed:	8/15/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125151 1608614-005AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	54.3	0.25	50	-	109	75-125
Chromium	ND	54.4	0.50	50	-	109	75-125
Lead	ND	53.7	0.50	50	-	107	75-125
Nickel	ND	55.7	0.50	50	-	111	75-125
Zinc	ND	562	5.0	500	-	112	75-125
Surrogate Recovery							
Terbium	511	532		500	102	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	55.3	52.6	50	ND	110	105	75-125	4.99	20
Chromium	125	120	50	73.13	104	95	75-125	3.75	20
Lead	65.5	59.8	50	10.89	109	98	75-125	9.00	20
Nickel	160	154	50	116.9	86	74,F10	75-125	3.76	20
Zinc	633	605	500	92.77	108	103	75-125	4.51	20
Surrogate Recovery									
Terbium	570	526	500		114	105	70-130	7.96	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Cadmium	ND<1.2	ND	-	-
Chromium	74.6	73.13	2.01	20
Lead	10.5	10.89	3.58	-
Nickel	112	116.9	4.19	20
Zinc	90.8	92.77	2.12	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/12/16	**BatchID:**	125140
Date Analyzed:	8/12/16	**Extraction Method:**	SW3550B
Instrument:	GC6A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS-125140 1608452-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	48.4	1.0	40	-	121	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.2	26.1		25	105	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	46.3	48.6	40	ND	116	122	70-130	4.94	30
Surrogate Recovery									
C9	22.4	24.2	25		89	97	70-130	7.88	30

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1608622
Date Prepared:	8/11/16	**BatchID:**	125114
Date Analyzed:	8/11/16 - 8/13/16	**Extraction Method:**	SW3510C
Instrument:	GC39B, GC6B	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	750623602; 1110 Jackson	**Sample ID:**	MB/LCS/LCSD-125114

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	573		625	92	65-122

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1220	1220	1000	122	123	61-157	0.296	30
Surrogate Recovery								
C9	605	608	625	97	97	65-122	0	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1608622 **ClientCode: TWRF**

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Report to:
Noel Liner
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: ncliner@treadwellrollo.com
cc/3rd Party: thoughton@langan.com;
PO:
ProjectNo: 750623602; 1110 Jackson

Bill to:
Accounts Payable
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
Langan_InvoiceCapture@concursolutio

Requested TAT: 5 days;

Date Received: **08/12/2016**
Date Logged: **08/12/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1608622-001	EB-2-13	Soil	8/11/2016 8:40	☐	A		A		A	A						
1608622-002	EB-2-15.5	Soil	8/11/2016 8:50	☐	A		A		A	A						
1608622-003	EB-2-22.5	Soil	8/11/2016 9:01	☐	A		A		A	A						
1608622-004	EB-2-GW	Water	8/11/2016 14:50	☐		A		B			B					
1608622-005	EB-4-GW	Water	8/11/2016 15:05	☐		A		B			B					
1608622-006	EB-1-GW	Water	8/11/2016 15:15	☐		A		B			B					
1608622-007	EB-3-GW	Water	8/11/2016 15:30	☐		A		B			B					
1608622-008	DI	Soil	8/11/2016 15:40	☐	A		A		A	A						

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W
5	LUFTMS_6020_TTLC_S	6	TPH(DMO)_S	7	TPH(DMO)_W	8	
9		10		11		12	

Prepared by: Agustina Venegas

The following SampIDs: 001A, 002A, 003A, 008A contain testgroup Multi Range_S.; The following SampIDs: 004B, 005B, 006B, 007B contain testgroup Multi Range_W.

Comments: 008 (DI) sample moved to addon for separate reporting. 8260 revised to BTEX&MTBE only. 8/16/16

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
QC Level: LEVEL 2
Work Order: 1608622
Project: 750623602; 1110 Jackson
Client Contact: Noel Liner
Date Logged: 8/12/2016
Comments: 008 (DI) sample moved to addon for separate reporting. 8260 revised to BTEX&MTBE only. 8/16/16
Contact's Email: ncliner@treadwellrollo.com

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1608622-001A	EB-2-13	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x6"	☐	8/11/2016 8:40	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1608622-002A	EB-2-15.5	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x6"	☐	8/11/2016 8:50	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1608622-003A	EB-2-22.5	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x6"	☐	8/11/2016 9:01	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1608622-004A	EB-2-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/11/2016 14:50	5 days	10%+	☐	
				1	1LA	☐			10%+	☐	
1608622-004B	EB-2-GW	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/11/2016 14:50	5 days	10%+	☐	
1608622-005A	EB-4-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/11/2016 15:05	5 days	2%+	☐	
				1	1LA	☐			2%+	☐	
1608622-005B	EB-4-GW	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/11/2016 15:05	5 days	2%+	☐	
1608622-006A	EB-1-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/11/2016 15:15	5 days	20%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
QC Level: LEVEL 2
Work Order: 1608622
Project: 750623602; 1110 Jackson
Client Contact: Noel Liner
Date Logged: 8/12/2016
Comments: 008 (DI) sample moved to addon for separate reporting. 8260 revised to BTEX&MTBE only. 8/16/16
Contact's Email: ncliner@treadwellrollo.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1608622-006B	EB-1-GW	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/11/2016 15:15	5 days	20%+	☐	
1608622-007A	EB-3-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/11/2016 15:30	5 days	20%+	☐	
				1	1LA	☐			20%+	☐	
1608622-007B	EB-3-GW	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/11/2016 15:30	5 days	20%+	☐	
1608622-008A	DI	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x6"	☐	8/11/2016 15:40	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs) <Benzene, Ethylbenzene, Methyl-t-butyl ether (MTBE), Toluene, Xylenes, Total>			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

160 $622

008007

Treadwell&Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
☐ 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: 1110 Jackson
Job Number: 75062260Z
Project Manager\Contact: Noel Liner / NLiner@langan.com
Samplers: Tyler Houghton
Recorder (Signature Required): Tyler Houghton

THoughton@langan.com
JGraber@langan.com

Turnaround Time: Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: VOCs EPA 8260	TPHg, D, mo 8015B	Lust+5 EPA 6010	Silica gel clean-up	Hold	Remarks
~~EB-2-13~~ EB-2-13	8/11/16	0840		X							1	X	X	X			
EB-2-15.5	8/11/16	0850		X							1	X	X	X			
EB-2-22.5	8/11/16	0901		X							1	X	X	X			
+10 EB-2-GW	8/11/16	1450			X			4			3	X	X				Hold Amber L
+2 EB-4-GW	8/11/16	1505			X			4			3	X	X				Hold Amber L
+20 EB-1-GW	8/11/16	1515			X			4			2	X	X				1 TPH D+mo vial light unable to get enough H2O to fill
+20 EB-3-GW	8/11/16	1530			X			4			3	X	X				Hold AMBer L
D1	8/11/16	1540		X								X	X	X			
																	For GW Samples Please let Gravity Settle + Decant water

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tyler Houghton	8/12/16	1030		8-12-16	1030
	8-12-16	1415		8/12/16	1415
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): McCampbell
Laboratory Comments/Notes:

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**8/12/2016 14:15**
Project Name:	**750623602; 1110 Jackson**	Date Logged:	**8/12/2016**
WorkOrder №:	**1608622** Matrix: Soil/Water	Received by:	Jena Alfaro
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Agustina Venegas

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 4.3°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

APPENDIX C

CERTIFIED ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY RECORDS

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 12/2/2016

TO: MS. ANNIE STAEHLIN
LANGAN TREADWELL ROLLO
555 MONTGOMERY STREET, STE. 1300
SAN FRANCISCO, CA 94111

Phone: 415-955-9041
Email: kstaehlin@langan.com

ACCT: 4841
PROJ: 750622603

FROM: Richard A. Kagel, Ph.D.
Laboratory Director RAK by TG 12/02/2016

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT 750622603

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
SG1-2016-11-17	AIR	11/17/16	10:25	149392
SG2-2016-11-17	AIR	11/17/16	10:46	149393
SG4-2016-11-17	AIR	11/17/16	11:12	149394
SG5-2016-11-17	AIR	11/17/16	11:48	149395
SG3-2016-11-17	AIR	11/17/16	14:48	149396

The above listed sample group was received on 11/18/16 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750622603

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG1-2016-11-17
LAB NO:	149392
SAMPLE TYPE:	AIR
DATE SAMPLED:	11/17/2016
TIME SAMPLED:	10:25
BATCH ID:	111716A1
DATE ANALYZED:	11/18/2016

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	1.00	6.15	4.95	30.4
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	2.42	5.62	13.6
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
C-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	4.43	3.19	14.2
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
T-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
C-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	7.51	3.77	28.3
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	2.74	8.68	11.9
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	1.27	4.34	5.51
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND
ACETONE	67-64-1	2.00	29.6	4.74	70.2
2-BUTANONE	78-93-3	2.00	4.27	5.90	12.6
CARBON DISULFIDE	75-15-0	2.00	ND	6.23	ND
CYCLOHEXANE	110-82-7	2.00	4.10	6.88	14.1
N-HEXANE	110-54-3	2.00	2.63	7.05	9.27
ISOPROPANOL	67-63-0	1.00	ND	2.46	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: TJ
DATE: 12/02/2016

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750622603

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG2-2016-11-17
LAB NO:	149393
SAMPLE TYPE:	AIR
DATE SAMPLED:	11/17/2016
TIME SAMPLED:	10:46
BATCH ID:	111716A1
DATE ANALYZED:	11/18/2016

COMPOUND NAME	CAS NO.	PPB (V/V) RL	PPB (V/V) SAMPLE CONC	µg/cu. m RL	µg/cu. m SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	7.74	4.95	38.3
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	2.33	5.62	13.1
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
C-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	1.58	3.19	5.05
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
T-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
C-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	2.87	3.77	10.8
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND
ACETONE	67-64-1	2.00	25.4	4.74	60.2
2-BUTANONE	78-93-3	2.00	ND	5.90	ND
CARBON DISULFIDE	75-15-0	2.00	7.46	6.23	23.2
CYCLOHEXANE	110-82-7	2.00	2.01	6.88	6.92
N-HEXANE	110-54-3	2.00	ND	7.05	ND
ISOPROPANOL	67-63-0	1.00	ND	2.46	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: TD
DATE: 12/02/2016

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750622603

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG4-2016-11-17
LAB NO:	149394
SAMPLE TYPE:	AIR
DATE SAMPLED:	11/17/2016
TIME SAMPLED:	11:12
BATCH ID:	111716A1
DATE ANALYZED:	11/18/2016

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	1.00	1.55	4.95	7.67
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	1.68	5.62	9.44
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
C-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	5.37	3.19	17.2
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
T-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
C-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	7.59	3.77	28.6
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	2.58	8.68	11.2
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	1.09	4.34	4.73
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND
ACETONE	67-64-1	2.00	22.4	4.74	53.1
2-BUTANONE	78-93-3	2.00	5.41	5.90	16.0
CARBON DISULFIDE	75-15-0	2.00	2.93	6.23	9.12
CYCLOHEXANE	110-82-7	2.00	6.98	6.88	24.0
N-HEXANE	110-54-3	2.00	4.94	7.05	17.4
ISOPROPANOL	67-63-0	1.00	ND	2.46	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: TJ
DATE: 12/02/2016

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750622603

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG5-2016-11-17
LAB NO:	149395
SAMPLE TYPE:	AIR
DATE SAMPLED:	11/17/2016
TIME SAMPLED:	11:48
BATCH ID:	111716A1
DATE ANALYZED:	11/18/2016

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	1.00	1.58	4.95	7.81
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
C-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
T-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
C-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND
ACETONE	67-64-1	2.00	ND	4.74	ND
2-BUTANONE	78-93-3	2.00	ND	5.90	ND
CARBON DISULFIDE	75-15-0	2.00	ND	6.23	ND
CYCLOHEXANE	110-82-7	2.00	ND	6.88	ND
N-HEXANE	110-54-3	2.00	ND	7.05	ND
ISOPROPANOL	67-63-0	1.00	ND	2.46	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: TJ
DATE: 12/02/2016

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750622603

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG3-2016-11-17
LAB NO:	149396
SAMPLE TYPE:	AIR
DATE SAMPLED:	11/17/2016
TIME SAMPLED:	14:48
BATCH ID:	111716A1
DATE ANALYZED:	11/18/2016

COMPOUND NAME	CAS NO.	PPB (V/V) RL	PPB (V/V) SAMPLE CONC	µg/cu. m RL	µg/cu. m SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	1.29	4.95	6.38
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	1.35	5.62	7.59
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
C-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	6.97	3.19	22.3
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
T-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
C-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	9.51	3.77	35.8
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	1.41	4.34	6.12
XYLENE (M+P)	179601-23-1	2.00	4.68	8.68	20.3
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	2.60	4.34	11.3
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND
ACETONE	67-64-1	2.00	39.9	4.74	94.6
2-BUTANONE	78-93-3	2.00	7.97	5.90	23.5
CARBON DISULFIDE	75-15-0	2.00	2.64	6.23	8.22
CYCLOHEXANE	110-82-7	2.00	17.4	6.88	59.9
N-HEXANE	110-54-3	2.00	32.4	7.05	114
ISOPROPANOL	67-63-0	1.00	ND	2.46	ND
NAPHTHALENE	91-20-3	1.00	ND	5.24	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: TJ
DATE: 12/02/2016

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B111716A1
SAMPLE TYPE: AIR

BATCH ID: 111716A1
DATE ANALYZED: 11/17/2016

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		RL	SAMPLE CONC	RL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
C-1,2-DICHLOROETHENE	159-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
T-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
C-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	179601-23-1	1.00	ND	4.34	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	ND
ACETONE	67-64-1	1.00	ND	2.37	ND
2-BUTANONE	78-93-3	1.00	ND	2.95	ND
CARBON DISULFIDE	75-15-0	1.00	ND	3.11	ND
CYCLOHEXANE	110-82-7	1.00	ND	3.44	ND
N-HEXANE	110-54-3	1.00	ND	3.52	ND
ISOPROPANOL	67-63-0	0.500	ND	1.23	ND
NAPHTHALENE	91-20-3	0.500	ND	2.62	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L111716A1
LAB CONTROL DUPLICATE ID: D111716A1

SAMPLE TYPE: AIR
BATCH ID: 111716A1
DATE ANALYZED: 11/17/2016

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	9.35	94	60 - 140
BENZENE	10.0	0.500	ND	8.68	87	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	10.2	102	60 - 140
TOLUENE	10.0	0.500	ND	10.0	100	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	10.5	105	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	10.0	9.22	92	1.4	25	60 - 140
BENZENE	10.0	8.69	87	0.1	25	60 - 140
TRICHLOROETHENE	10.0	10.2	102	0.6	25	60 - 140
TOLUENE	10.0	9.95	100	0.9	25	60 - 140
TETRACHLOROETHENE	10.0	10.1	101	3.3	25	60 - 140

NOTES:
NA - NOT APPLICABLE OR AVAILABLE
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

SUMMA CANISTER CHAIN OF CUSTODY

K PRIME INC.

K Prime, Inc. Laboratory
3621 Westwind Blvd.
Santa Rosa, CA 95403-1067
(707) 527-7574
clientservice@kprimeinc.com

☐ EDF Log Code:

Global ID

Client Company:	LANGAN 4841
Contact:	ANNIE STAEHLIN
Phone:	(415) 955.5264
Email:	KSTAEHLIN@LANGAN.COM
Client Project ID:	750622603

KPI Project Number

	KPI LAB NO.	SAMPLE I.D. (Location)	Collection: Date	Collection: Time	Canister I.D.	Controller I.D.	Pressure: Initial	Pressure: Final	TO-15	METHANE (%)	HELIUM			Turnaround Time 48-HOUR RUSH	Notes
1	149392	SG1-2016-11-17	11/17/16	1025	S-656	8909/8912	-30	-3	X	X	X				
2	149393	SG2-2016-11-17		1046	S-354	8937/8910	-27	-2	X	X	X				PLEASE
3		~~SG3-2016-11-17~~		~~1247~~	~~S-721~~	~~XXXX~~	~~-28~~	~~XXX~~							REPORT ALL
4	149394	SG4-2016-11-17		1112	S-250	8901/8937	-29	-3	X	X	X				ANALYTICAL
5	149395	SG5-2016-11-17	11/17/16	1148	S-928	8918/8912	-29	-2	X	X	X				RESULTS IN
6	149396	SG3-2016-11-17	11/17/16	1448	S-435	8910/8910	-29	-3	X	X	X				µg/m³ UNITS
7															
8															
9															
10															
11															
12															
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Relinquished by: (Signature) [signature]	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Date: 11/18/16	Time: 10:39
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 283135
ANALYTICAL REPORT

Langan Treadwell Rollo	Project : 750622603
555 Montgomery Street	Location : 1110 Jackson Street
San Francisco, CA 94111	Level : II

Sample ID	Lab ID
SS-1	283135-001
SS-2	283135-002
SS-3	283135-003
SS-4	283135-004
SS-5	283135-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/10/2016

Dina Ali
Project Manager
dina.ali@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**283135**
Client:	**Langan Treadwell Rollo**
Project:	**750622603**
Location:	**1110 Jackson Street**
Request Date:	**11/08/16**
Samples Received:	**11/08/16**

This data package contains sample and QC results for five air samples, requested for the above referenced project on 11/08/16. The samples were received on ice and intact.

Volatile Organics in Air by MS (EPA TO-15):
High response was observed for vinyl acetate in the CCV analyzed 11/08/16 12:24; affected data was qualified with "b". High response was observed for vinyl acetate in the CCV analyzed 11/09/16 12:21; affected data was qualified with "b". High recoveries were observed for 2-butanone and vinyl acetate in the BS/BSD for batch 241115; the associated RPDs were within limits. High recoveries were observed for vinyl acetate in the BS/BSD for batch 241170; the associated RPD was within limits, and these high recoveries were not associated with any reported results. No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946):
No analytical problems were encountered.

*PLEASE C.C. ANNIE S. AT KSTAEHLIN@LANGAN.COM *

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

AIR TESTING CHAIN OF CUSTODY
& PURCHASE ORDER

Page 1 of 1

Chain of Custody # :

C&T LOGIN # 283135

Project No: 750622603
Project Name: 1110 JACKSON STREET
EDD Format: _____ Rpt Level: II III IV
Turnaround Time: X RUSH 24-HOUR ☐ Standard

Sampler: KSS
Report To: JOSHUA GRABER
Company : LANGAN
Telephone: 4
Email: JGRABER@LANGAN.COM

Lab No.	Sample ID.	Sampling Information					TESTING REQUESTED				
		Date Collected	Time Collected	Canister ID (Bar Code #)	Flow Controller ID	Sample Volume (Gauge Reading)	TO-15	Methane (%)	Helium (%)		
1	SS-1	11/8/16	1101	404	307	30/7	X	X	X		
2	SS-2		1358	251	19	29/5	X	X	X		
3	SS-3		1504	81	312	29/4	X	X	X		
4	SS-4		1421	285	308	29/6	X	X	X		
5	SS-5	11/9/16	1214	61	310	29/14	X	X	X		

Notes:

RELINQUISHED BY: KARIANNE STAEHLIN 11/9/16 1700 DATE/TIME

RECEIVED BY: 11/8/16 17:00 DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 283135 Date Received 11/8/16 Number of coolers 0
Client TREADWELL Project 1110 Jackson Street

Date Opened 11/8/16 By (print) EWA (sign) [signature]
Date Logged in ↓ By (print) ↓ (sign) ↓
Date Labeled ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
   Shipping info
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☑ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? YES NO (N/A)
17. Did you document your preservative check? (pH strip lot#) YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

Detections Summary for 283135

Results for any subcontracted analyses are not included in this summary.

Client : Langan Treadwell Rollo
Project : 750622603
Location : 1110 Jackson Street

Client Sample ID : SS-1 Laboratory Sample ID : 283135-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichlorofluoromethane	1.8		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
Acetone	150		4.3	ppbv	As Recd	2.150	EPA TO-15	METHOD
Carbon Disulfide	9.8		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
Isopropanol	6.4		4.3	ppbv	As Recd	2.150	EPA TO-15	METHOD
n-Hexane	2.1		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
2-Butanone	11		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
Cyclohexane	11		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
Benzene	3.0		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
Toluene	4.2		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD
m,p-Xylenes	2.0		1.1	ppbv	As Recd	2.150	EPA TO-15	METHOD

Client Sample ID : SS-2 Laboratory Sample ID : 283135-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichlorofluoromethane	2.6		0.95	ppbv	As Recd	1.900	EPA TO-15	METHOD
Acetone	66		3.8	ppbv	As Recd	1.900	EPA TO-15	METHOD
Isopropanol	4.8		3.8	ppbv	As Recd	1.900	EPA TO-15	METHOD
2-Butanone	1.8		0.95	ppbv	As Recd	1.900	EPA TO-15	METHOD

Client Sample ID : SS-3 Laboratory Sample ID : 283135-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichlorofluoromethane	1.4		1.1	ppbv	As Recd	2.130	EPA TO-15	METHOD
Acetone	260		8.5	ppbv	As Recd	4.260	EPA TO-15	METHOD
Isopropanol	5.9		4.3	ppbv	As Recd	2.130	EPA TO-15	METHOD
2-Butanone	3.8		2.1	ppbv	As Recd	4.260	EPA TO-15	METHOD

Client Sample ID : SS-4 Laboratory Sample ID : 283135-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Freon 12	1.5		1.0	ppbv	As Recd	2.090	EPA TO-15	METHOD
Trichlorofluoromethane	3.4		1.0	ppbv	As Recd	2.090	EPA TO-15	METHOD
Acetone	140		4.2	ppbv	As Recd	2.090	EPA TO-15	METHOD
Isopropanol	6.8		4.2	ppbv	As Recd	2.090	EPA TO-15	METHOD
2-Butanone	10		1.0	ppbv	As Recd	2.090	EPA TO-15	METHOD
Toluene	1.2		1.0	ppbv	As Recd	2.090	EPA TO-15	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : SS-5 Laboratory Sample ID : 283135-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichlorofluoromethane	2.2		1.5	ppbv	As Recd	3.060	EPA TO-15	METHOD
Acetone	97		6.1	ppbv	As Recd	3.060	EPA TO-15	METHOD
2-Butanone	3.6		1.5	ppbv	As Recd	3.060	EPA TO-15	METHOD

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-1	Diln Fac:	2.150
Lab ID:	283135-001	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	1.1	ND	5.3
Freon 114	ND	1.1	ND	7.5
Chloromethane	ND	1.1	ND	2.2
Vinyl Chloride	ND	1.1	ND	2.7
1,3-Butadiene	ND	1.1	ND	2.4
Bromomethane	ND	1.1	ND	4.2
Chloroethane	ND	1.1	ND	2.8
Trichlorofluoromethane	1.8	1.1	10	6.0
Acrolein	ND	4.3	ND	9.9
1,1-Dichloroethene	ND	1.1	ND	4.3
Freon 113	ND	1.1	ND	8.2
Acetone	150	4.3	370	10
Carbon Disulfide	9.8	1.1	31	3.3
Isopropanol	6.4	4.3	16	11
Methylene Chloride	ND	1.1	ND	3.7
trans-1,2-Dichloroethene	ND	1.1	ND	4.3
MTBE	ND	1.1	ND	3.9
n-Hexane	2.1	1.1	7.3	3.8
1,1-Dichloroethane	ND	1.1	ND	4.4
Vinyl Acetate	ND	1.1	ND	3.8
cis-1,2-Dichloroethene	ND	1.1	ND	4.3
2-Butanone	11	1.1	32	3.2
Ethyl Acetate	ND	1.1	ND	3.9
Tetrahydrofuran	ND	1.1	ND	3.2
Chloroform	ND	1.1	ND	5.2
1,1,1-Trichloroethane	ND	1.1	ND	5.9
Cyclohexane	11	1.1	38	3.7
Carbon Tetrachloride	ND	1.1	ND	6.8
Benzene	3.0	1.1	9.4	3.4
1,2-Dichloroethane	ND	1.1	ND	4.4
n-Heptane	ND	1.1	ND	4.4
Trichloroethene	ND	1.1	ND	5.8
1,2-Dichloropropane	ND	1.1	ND	5.0
Bromodichloromethane	ND	1.1	ND	7.2
cis-1,3-Dichloropropene	ND	1.1	ND	4.9

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-1	Diln Fac:	2.150
Lab ID:	283135-001	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.1	ND	4.4
Toluene	4.2	1.1	16	4.1
trans-1,3-Dichloropropene	ND	1.1	ND	4.9
1,1,2-Trichloroethane	ND	1.1	ND	5.9
Tetrachloroethene	ND	1.1	ND	7.3
2-Hexanone	ND	1.1	ND	4.4
Dibromochloromethane	ND	1.1	ND	9.2
1,2-Dibromoethane	ND	1.1	ND	8.3
Chlorobenzene	ND	1.1	ND	4.9
Ethylbenzene	ND	1.1	ND	4.7
m,p-Xylenes	2.0	1.1	8.5	4.7
o-Xylene	ND	1.1	ND	4.7
Styrene	ND	1.1	ND	4.6
Bromoform	ND	1.1	ND	11
1,1,2,2-Tetrachloroethane	ND	1.1	ND	7.4
4-Ethyltoluene	ND	1.1	ND	5.3
1,3,5-Trimethylbenzene	ND	1.1	ND	5.3
1,2,4-Trimethylbenzene	ND	1.1	ND	5.3
1,3-Dichlorobenzene	ND	1.1	ND	6.5
1,4-Dichlorobenzene	ND	1.1	ND	6.5
Benzyl chloride	ND	1.1	ND	5.6
1,2-Dichlorobenzene	ND	1.1	ND	6.5
1,2,4-Trichlorobenzene	ND	1.1	ND	8.0
Hexachlorobutadiene	ND	1.1	ND	11
Naphthalene	ND	4.3	ND	23

Surrogate	%REC	Limits
Bromofluorobenzene	103	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-2	Diln Fac:	1.900
Lab ID:	283135-002	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.95	ND	4.7
Freon 114	ND	0.95	ND	6.6
Chloromethane	ND	0.95	ND	2.0
Vinyl Chloride	ND	0.95	ND	2.4
1,3-Butadiene	ND	0.95	ND	2.1
Bromomethane	ND	0.95	ND	3.7
Chloroethane	ND	0.95	ND	2.5
Trichlorofluoromethane	2.6	0.95	15	5.3
Acrolein	ND	3.8	ND	8.7
1,1-Dichloroethene	ND	0.95	ND	3.8
Freon 113	ND	0.95	ND	7.3
Acetone	66	3.8	160	9.0
Carbon Disulfide	ND	0.95	ND	3.0
Isopropanol	4.8	3.8	12	9.3
Methylene Chloride	ND	0.95	ND	3.3
trans-1,2-Dichloroethene	ND	0.95	ND	3.8
MTBE	ND	0.95	ND	3.4
n-Hexane	ND	0.95	ND	3.3
1,1-Dichloroethane	ND	0.95	ND	3.8
Vinyl Acetate	ND	0.95	ND	3.3
cis-1,2-Dichloroethene	ND	0.95	ND	3.8
2-Butanone	1.8	0.95	5.3	2.8
Ethyl Acetate	ND	0.95	ND	3.4
Tetrahydrofuran	ND	0.95	ND	2.8
Chloroform	ND	0.95	ND	4.6
1,1,1-Trichloroethane	ND	0.95	ND	5.2
Cyclohexane	ND	0.95	ND	3.3
Carbon Tetrachloride	ND	0.95	ND	6.0
Benzene	ND	0.95	ND	3.0
1,2-Dichloroethane	ND	0.95	ND	3.8
n-Heptane	ND	0.95	ND	3.9
Trichloroethene	ND	0.95	ND	5.1
1,2-Dichloropropane	ND	0.95	ND	4.4
Bromodichloromethane	ND	0.95	ND	6.4
cis-1,3-Dichloropropene	ND	0.95	ND	4.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-2	Diln Fac:	1.900
Lab ID:	283135-002	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.95	ND	3.9
Toluene	ND	0.95	ND	3.6
trans-1,3-Dichloropropene	ND	0.95	ND	4.3
1,1,2-Trichloroethane	ND	0.95	ND	5.2
Tetrachloroethene	ND	0.95	ND	6.4
2-Hexanone	ND	0.95	ND	3.9
Dibromochloromethane	ND	0.95	ND	8.1
1,2-Dibromoethane	ND	0.95	ND	7.3
Chlorobenzene	ND	0.95	ND	4.4
Ethylbenzene	ND	0.95	ND	4.1
m,p-Xylenes	ND	0.95	ND	4.1
o-Xylene	ND	0.95	ND	4.1
Styrene	ND	0.95	ND	4.0
Bromoform	ND	0.95	ND	9.8
1,1,2,2-Tetrachloroethane	ND	0.95	ND	6.5
4-Ethyltoluene	ND	0.95	ND	4.7
1,3,5-Trimethylbenzene	ND	0.95	ND	4.7
1,2,4-Trimethylbenzene	ND	0.95	ND	4.7
1,3-Dichlorobenzene	ND	0.95	ND	5.7
1,4-Dichlorobenzene	ND	0.95	ND	5.7
Benzyl chloride	ND	0.95	ND	4.9
1,2-Dichlorobenzene	ND	0.95	ND	5.7
1,2,4-Trichlorobenzene	ND	0.95	ND	7.1
Hexachlorobutadiene	ND	0.95	ND	10
Naphthalene	ND	3.8	ND	20

Surrogate	%REC	Limits
Bromofluorobenzene	87	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-3	Units (M):	ug/m3
Lab ID:	283135-003	Sampled:	11/08/16
Matrix:	Air	Received:	11/08/16
Units (V):	ppbv	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#
Freon 12	ND	1.1	ND	5.3	2.130	241115
Freon 114	ND	1.1	ND	7.4	2.130	241115
Chloromethane	ND	1.1	ND	2.2	2.130	241115
Vinyl Chloride	ND	1.1	ND	2.7	2.130	241115
1,3-Butadiene	ND	1.1	ND	2.4	2.130	241115
Bromomethane	ND	1.1	ND	4.1	2.130	241115
Chloroethane	ND	1.1	ND	2.8	2.130	241115
Trichlorofluoromethane	1.4	1.1	7.8	6.0	2.130	241115
Acrolein	ND	4.3	ND	9.8	2.130	241115
1,1-Dichloroethene	ND	1.1	ND	4.2	2.130	241115
Freon 113	ND	1.1	ND	8.2	2.130	241115
Acetone	260	8.5	610	20	4.260	241170
Carbon Disulfide	ND	1.1	ND	3.3	2.130	241115
Isopropanol	5.9	4.3	15	10	2.130	241115
Methylene Chloride	ND	1.1	ND	3.7	2.130	241115
trans-1,2-Dichloroethene	ND	1.1	ND	4.2	2.130	241115
MTBE	ND	1.1	ND	3.8	2.130	241115
n-Hexane	ND	1.1	ND	3.8	2.130	241115
1,1-Dichloroethane	ND	1.1	ND	4.3	2.130	241115
Vinyl Acetate	ND	1.1	ND	3.7	2.130	241115
cis-1,2-Dichloroethene	ND	1.1	ND	4.2	2.130	241115
2-Butanone	3.8	2.1	11	6.3	4.260	241170
Ethyl Acetate	ND	1.1	ND	3.8	2.130	241115
Tetrahydrofuran	ND	1.1	ND	3.1	2.130	241115
Chloroform	ND	1.1	ND	5.2	2.130	241115
1,1,1-Trichloroethane	ND	1.1	ND	5.8	2.130	241115
Cyclohexane	ND	1.1	ND	3.7	2.130	241115
Carbon Tetrachloride	ND	1.1	ND	6.7	2.130	241115
Benzene	ND	1.1	ND	3.4	2.130	241115
1,2-Dichloroethane	ND	1.1	ND	4.3	2.130	241115
n-Heptane	ND	1.1	ND	4.4	2.130	241115
Trichloroethene	ND	1.1	ND	5.7	2.130	241115
1,2-Dichloropropane	ND	1.1	ND	4.9	2.130	241115
Bromodichloromethane	ND	1.1	ND	7.1	2.130	241115
cis-1,3-Dichloropropene	ND	1.1	ND	4.8	2.130	241115
4-Methyl-2-Pentanone	ND	1.1	ND	4.4	2.130	241115

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-3	Units (M):	ug/m3
Lab ID:	283135-003	Sampled:	11/08/16
Matrix:	Air	Received:	11/08/16
Units (V):	ppbv	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac	Batch#
Toluene	ND	1.1	ND	4.0	2.130	241115
trans-1,3-Dichloropropene	ND	1.1	ND	4.8	2.130	241115
1,1,2-Trichloroethane	ND	1.1	ND	5.8	2.130	241115
Tetrachloroethene	ND	1.1	ND	7.2	2.130	241115
2-Hexanone	ND	1.1	ND	4.4	2.130	241115
Dibromochloromethane	ND	1.1	ND	9.1	2.130	241115
1,2-Dibromoethane	ND	1.1	ND	8.2	2.130	241115
Chlorobenzene	ND	1.1	ND	4.9	2.130	241115
Ethylbenzene	ND	1.1	ND	4.6	2.130	241115
m,p-Xylenes	ND	1.1	ND	4.6	2.130	241115
o-Xylene	ND	1.1	ND	4.6	2.130	241115
Styrene	ND	1.1	ND	4.5	2.130	241115
Bromoform	ND	1.1	ND	11	2.130	241115
1,1,2,2-Tetrachloroethane	ND	1.1	ND	7.3	2.130	241115
4-Ethyltoluene	ND	1.1	ND	5.2	2.130	241115
1,3,5-Trimethylbenzene	ND	1.1	ND	5.2	2.130	241115
1,2,4-Trimethylbenzene	ND	1.1	ND	5.2	2.130	241115
1,3-Dichlorobenzene	ND	1.1	ND	6.4	2.130	241115
1,4-Dichlorobenzene	ND	1.1	ND	6.4	2.130	241115
Benzyl chloride	ND	1.1	ND	5.5	2.130	241115
1,2-Dichlorobenzene	ND	1.1	ND	6.4	2.130	241115
1,2,4-Trichlorobenzene	ND	1.1	ND	7.9	2.130	241115
Hexachlorobutadiene	ND	1.1	ND	11	2.130	241115
Naphthalene	ND	4.3	ND	22	2.130	241115

Surrogate	%REC	Limits	Diln Fac	Batch#
Bromofluorobenzene	88	80-121	2.130	241115

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-4	Diln Fac:	2.090
Lab ID:	283135-004	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	1.5	1.0	7.2	5.2
Freon 114	ND	1.0	ND	7.3
Chloromethane	ND	1.0	ND	2.2
Vinyl Chloride	ND	1.0	ND	2.7
1,3-Butadiene	ND	1.0	ND	2.3
Bromomethane	ND	1.0	ND	4.1
Chloroethane	ND	1.0	ND	2.8
Trichlorofluoromethane	3.4	1.0	19	5.9
Acrolein	ND	4.2	ND	9.6
1,1-Dichloroethene	ND	1.0	ND	4.1
Freon 113	ND	1.0	ND	8.0
Acetone	140	4.2	330	9.9
Carbon Disulfide	ND	1.0	ND	3.3
Isopropanol	6.8	4.2	17	10
Methylene Chloride	ND	1.0	ND	3.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
MTBE	ND	1.0	ND	3.8
n-Hexane	ND	1.0	ND	3.7
1,1-Dichloroethane	ND	1.0	ND	4.2
Vinyl Acetate	ND	1.0	ND	3.7
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
2-Butanone	10	1.0	30	3.1
Ethyl Acetate	ND	1.0	ND	3.8
Tetrahydrofuran	ND	1.0	ND	3.1
Chloroform	ND	1.0	ND	5.1
1,1,1-Trichloroethane	ND	1.0	ND	5.7
Cyclohexane	ND	1.0	ND	3.6
Carbon Tetrachloride	ND	1.0	ND	6.6
Benzene	ND	1.0	ND	3.3
1,2-Dichloroethane	ND	1.0	ND	4.2
n-Heptane	ND	1.0	ND	4.3
Trichloroethene	ND	1.0	ND	5.6
1,2-Dichloropropane	ND	1.0	ND	4.8
Bromodichloromethane	ND	1.0	ND	7.0
cis-1,3-Dichloropropene	ND	1.0	ND	4.7

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-4	Diln Fac:	2.090
Lab ID:	283135-004	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.0	ND	4.3
Toluene	1.2	1.0	4.5	3.9
trans-1,3-Dichloropropene	ND	1.0	ND	4.7
1,1,2-Trichloroethane	ND	1.0	ND	5.7
Tetrachloroethene	ND	1.0	ND	7.1
2-Hexanone	ND	1.0	ND	4.3
Dibromochloromethane	ND	1.0	ND	8.9
1,2-Dibromoethane	ND	1.0	ND	8.0
Chlorobenzene	ND	1.0	ND	4.8
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5
Styrene	ND	1.0	ND	4.5
Bromoform	ND	1.0	ND	11
1,1,2,2-Tetrachloroethane	ND	1.0	ND	7.2
4-Ethyltoluene	ND	1.0	ND	5.1
1,3,5-Trimethylbenzene	ND	1.0	ND	5.1
1,2,4-Trimethylbenzene	ND	1.0	ND	5.1
1,3-Dichlorobenzene	ND	1.0	ND	6.3
1,4-Dichlorobenzene	ND	1.0	ND	6.3
Benzyl chloride	ND	1.0	ND	5.4
1,2-Dichlorobenzene	ND	1.0	ND	6.3
1,2,4-Trichlorobenzene	ND	1.0	ND	7.8
Hexachlorobutadiene	ND	1.0	ND	11
Naphthalene	ND	4.2	ND	22

Surrogate	%REC	Limits
Bromofluorobenzene	102	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-5	Diln Fac:	3.060
Lab ID:	283135-005	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	1.5	ND	7.6
Freon 114	ND	1.5	ND	11
Chloromethane	ND	1.5	ND	3.2
Vinyl Chloride	ND	1.5	ND	3.9
1,3-Butadiene	ND	1.5	ND	3.4
Bromomethane	ND	1.5	ND	5.9
Chloroethane	ND	1.5	ND	4.0
Trichlorofluoromethane	2.2	1.5	12	8.6
Acrolein	ND	6.1	ND	14
1,1-Dichloroethene	ND	1.5	ND	6.1
Freon 113	ND	1.5	ND	12
Acetone	97	6.1	230	15
Carbon Disulfide	ND	1.5	ND	4.8
Isopropanol	ND	6.1	ND	15
Methylene Chloride	ND	1.5	ND	5.3
trans-1,2-Dichloroethene	ND	1.5	ND	6.1
MTBE	ND	1.5	ND	5.5
n-Hexane	ND	1.5	ND	5.4
1,1-Dichloroethane	ND	1.5	ND	6.2
Vinyl Acetate	ND	1.5	ND	5.4
cis-1,2-Dichloroethene	ND	1.5	ND	6.1
2-Butanone	3.6	1.5	11	4.5
Ethyl Acetate	ND	1.5	ND	5.5
Tetrahydrofuran	ND	1.5	ND	4.5
Chloroform	ND	1.5	ND	7.5
1,1,1-Trichloroethane	ND	1.5	ND	8.3
Cyclohexane	ND	1.5	ND	5.3
Carbon Tetrachloride	ND	1.5	ND	9.6
Benzene	ND	1.5	ND	4.9
1,2-Dichloroethane	ND	1.5	ND	6.2
n-Heptane	ND	1.5	ND	6.3
Trichloroethene	ND	1.5	ND	8.2
1,2-Dichloropropane	ND	1.5	ND	7.1
Bromodichloromethane	ND	1.5	ND	10
cis-1,3-Dichloropropene	ND	1.5	ND	6.9

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS-5	Diln Fac:	3.060
Lab ID:	283135-005	Batch#:	241115
Matrix:	Air	Sampled:	11/08/16
Units (V):	ppbv	Received:	11/08/16
Units (M):	ug/m3	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.5	ND	6.3
Toluene	ND	1.5	ND	5.8
trans-1,3-Dichloropropene	ND	1.5	ND	6.9
1,1,2-Trichloroethane	ND	1.5	ND	8.3
Tetrachloroethene	ND	1.5	ND	10
2-Hexanone	ND	1.5	ND	6.3
Dibromochloromethane	ND	1.5	ND	13
1,2-Dibromoethane	ND	1.5	ND	12
Chlorobenzene	ND	1.5	ND	7.0
Ethylbenzene	ND	1.5	ND	6.6
m,p-Xylenes	ND	1.5	ND	6.6
o-Xylene	ND	1.5	ND	6.6
Styrene	ND	1.5	ND	6.5
Bromoform	ND	1.5	ND	16
1,1,2,2-Tetrachloroethane	ND	1.5	ND	11
4-Ethyltoluene	ND	1.5	ND	7.5
1,3,5-Trimethylbenzene	ND	1.5	ND	7.5
1,2,4-Trimethylbenzene	ND	1.5	ND	7.5
1,3-Dichlorobenzene	ND	1.5	ND	9.2
1,4-Dichlorobenzene	ND	1.5	ND	9.2
Benzyl chloride	ND	1.5	ND	7.9
1,2-Dichlorobenzene	ND	1.5	ND	9.2
1,2,4-Trichlorobenzene	ND	1.5	ND	11
Hexachlorobutadiene	ND	1.5	ND	16
Naphthalene	ND	6.1	ND	32

Surrogate	%REC	Limits
Bromofluorobenzene	103	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241115
Units (V):	ppbv	Analyzed:	11/08/16
Diln Fac:	1.000		

Type: BS Lab ID: QC859479

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	8.842	88	70-130
Freon 114	10.00	9.094	91	70-130
Chloromethane	10.00	9.145	91	70-130
Vinyl Chloride	10.00	9.529	95	70-130
1,3-Butadiene	10.00	8.663	87	70-130
Bromomethane	10.00	8.990	90	70-130
Chloroethane	10.00	9.694	97	70-130
Trichlorofluoromethane	10.00	9.214	92	70-130
Acrolein	10.00	8.441	84	70-130
1,1-Dichloroethene	10.00	11.20	112	70-130
Freon 113	10.00	9.946	99	70-130
Acetone	10.00	8.703	87	70-130
Carbon Disulfide	10.00	8.736	87	70-130
Isopropanol	10.00	8.904	89	70-130
Methylene Chloride	10.00	9.310	93	70-130
trans-1,2-Dichloroethene	10.00	11.59	116	70-130
MTBE	10.00	10.23	102	70-130
n-Hexane	10.00	9.564	96	70-130
1,1-Dichloroethane	10.00	10.20	102	70-130
Vinyl Acetate	10.00	14.25 b	142 *	70-130
cis-1,2-Dichloroethene	10.00	9.834	98	70-130
2-Butanone	10.00	13.00	130	70-130
Ethyl Acetate	10.00	9.122	91	70-130
Tetrahydrofuran	10.00	11.37	114	70-130
Chloroform	10.00	9.462	95	70-130
1,1,1-Trichloroethane	10.00	9.853	99	70-130
Cyclohexane	10.00	10.83	108	70-130
Carbon Tetrachloride	10.00	7.905	79	70-130
Benzene	10.00	11.74	117	70-130
1,2-Dichloroethane	10.00	11.46	115	70-130
n-Heptane	10.00	11.03	110	70-130
Trichloroethene	10.00	9.771	98	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241115
Units (V):	ppbv	Analyzed:	11/08/16
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	11.77	118	70-130
Bromodichloromethane	10.00	10.73	107	70-130
cis-1,3-Dichloropropene	10.00	11.84	118	70-130
4-Methyl-2-Pentanone	10.00	12.13	121	70-130
Toluene	10.00	11.08	111	70-130
trans-1,3-Dichloropropene	10.00	11.41	114	70-130
1,1,2-Trichloroethane	10.00	12.47	125	70-130
Tetrachloroethene	10.00	10.87	109	70-130
2-Hexanone	10.00	11.64	116	70-130
Dibromochloromethane	10.00	10.05	101	70-130
1,2-Dibromoethane	10.00	11.59	116	70-130
Chlorobenzene	10.00	9.078	91	70-130
Ethylbenzene	10.00	10.34	103	70-130
m,p-Xylenes	20.00	23.66	118	70-130
o-Xylene	10.00	11.10	111	70-130
Styrene	10.00	9.899	99	70-130
Bromoform	10.00	10.29	103	70-130
1,1,2,2-Tetrachloroethane	10.00	10.42	104	70-130
4-Ethyltoluene	10.00	11.05	110	70-130
1,3,5-Trimethylbenzene	10.00	10.45	105	70-130
1,2,4-Trimethylbenzene	10.00	10.66	107	70-130
1,3-Dichlorobenzene	10.00	10.30	103	70-130
1,4-Dichlorobenzene	10.00	9.364	94	70-130
Benzyl chloride	10.00	10.52	105	70-130
1,2-Dichlorobenzene	10.00	9.221	92	70-130
1,2,4-Trichlorobenzene	10.00	9.841	98	70-130
Hexachlorobutadiene	10.00	9.553	96	70-130
Naphthalene	10.00	9.805	98	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241115
Units (V):	ppbv	Analyzed:	11/08/16
Diln Fac:	1.000		

Type: BSD Lab ID: QC859480

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	9.497	95	70-130	7	25
Freon 114	10.00	9.719	97	70-130	7	25
Chloromethane	10.00	9.827	98	70-130	7	25
Vinyl Chloride	10.00	10.18	102	70-130	7	25
1,3-Butadiene	10.00	9.215	92	70-130	6	25
Bromomethane	10.00	9.516	95	70-130	6	25
Chloroethane	10.00	10.77	108	70-130	11	25
Trichlorofluoromethane	10.00	9.888	99	70-130	7	25
Acrolein	10.00	8.463	85	70-130	0	25
1,1-Dichloroethene	10.00	11.98	120	70-130	7	25
Freon 113	10.00	10.52	105	70-130	6	25
Acetone	10.00	8.736	87	70-130	0	25
Carbon Disulfide	10.00	9.102	91	70-130	4	25
Isopropanol	10.00	8.970	90	70-130	1	25
Methylene Chloride	10.00	9.705	97	70-130	4	25
trans-1,2-Dichloroethene	10.00	12.05	120	70-130	4	25
MTBE	10.00	10.49	105	70-130	3	25
n-Hexane	10.00	9.686	97	70-130	1	25
1,1-Dichloroethane	10.00	10.62	106	70-130	4	25
Vinyl Acetate	10.00	14.55 b	145 *	70-130	2	25
cis-1,2-Dichloroethene	10.00	10.24	102	70-130	4	25
2-Butanone	10.00	13.27	133 *	70-130	2	25
Ethyl Acetate	10.00	9.176	92	70-130	1	25
Tetrahydrofuran	10.00	11.38	114	70-130	0	25
Chloroform	10.00	9.836	98	70-130	4	25
1,1,1-Trichloroethane	10.00	9.870	99	70-130	0	25
Cyclohexane	10.00	10.87	109	70-130	0	25
Carbon Tetrachloride	10.00	7.955	80	70-130	1	25
Benzene	10.00	11.84	118	70-130	1	25
1,2-Dichloroethane	10.00	11.32	113	70-130	1	25
n-Heptane	10.00	11.14	111	70-130	1	25
Trichloroethene	10.00	9.885	99	70-130	1	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241115
Units (V):	ppbv	Analyzed:	11/08/16
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	11.69	117	70-130	1	25
Bromodichloromethane	10.00	10.84	108	70-130	1	25
cis-1,3-Dichloropropene	10.00	11.95	119	70-130	1	25
4-Methyl-2-Pentanone	10.00	12.20	122	70-130	1	25
Toluene	10.00	11.29	113	70-130	2	25
trans-1,3-Dichloropropene	10.00	11.29	113	70-130	1	25
1,1,2-Trichloroethane	10.00	12.36	124	70-130	1	25
Tetrachloroethene	10.00	10.53	105	70-130	3	25
2-Hexanone	10.00	11.64	116	70-130	0	25
Dibromochloromethane	10.00	9.955	100	70-130	1	25
1,2-Dibromoethane	10.00	11.60	116	70-130	0	25
Chlorobenzene	10.00	9.108	91	70-130	0	25
Ethylbenzene	10.00	10.49	105	70-130	1	25
m,p-Xylenes	20.00	23.27	116	70-130	2	25
o-Xylene	10.00	11.10	111	70-130	0	25
Styrene	10.00	9.516	95	70-130	4	25
Bromoform	10.00	10.18	102	70-130	1	25
1,1,2,2-Tetrachloroethane	10.00	10.57	106	70-130	1	25
4-Ethyltoluene	10.00	10.76	108	70-130	3	25
1,3,5-Trimethylbenzene	10.00	9.930	99	70-130	5	25
1,2,4-Trimethylbenzene	10.00	10.75	108	70-130	1	25
1,3-Dichlorobenzene	10.00	10.16	102	70-130	1	25
1,4-Dichlorobenzene	10.00	9.427	94	70-130	1	25
Benzyl chloride	10.00	10.20	102	70-130	3	25
1,2-Dichlorobenzene	10.00	9.435	94	70-130	2	25
1,2,4-Trichlorobenzene	10.00	9.360	94	70-130	5	25
Hexachlorobutadiene	10.00	9.396	94	70-130	2	25
Naphthalene	10.00	9.444	94	70-130	4	25

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC859481	Diln Fac:	1.000
Matrix:	Air	Batch#:	241115
Units (V):	ppbv	Analyzed:	11/08/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC859481	Diln Fac:	1.000
Matrix:	Air	Batch#:	241115
Units (V):	ppbv	Analyzed:	11/08/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	85	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241170
Units (V):	ppbv	Analyzed:	11/09/16
Diln Fac:	1.000		

Type: BS Lab ID: QC859692

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	8.969	90	70-130
Freon 114	10.00	9.347	93	70-130
Chloromethane	10.00	9.735	97	70-130
Vinyl Chloride	10.00	10.13	101	70-130
1,3-Butadiene	10.00	9.179	92	70-130
Bromomethane	10.00	9.046	90	70-130
Chloroethane	10.00	10.88	109	70-130
Trichlorofluoromethane	10.00	9.898	99	70-130
Acrolein	10.00	8.463	85	70-130
1,1-Dichloroethene	10.00	12.07	121	70-130
Freon 113	10.00	10.64	106	70-130
Acetone	10.00	9.102	91	70-130
Carbon Disulfide	10.00	9.074	91	70-130
Isopropanol	10.00	8.787	88	70-130
Methylene Chloride	10.00	9.800	98	70-130
trans-1,2-Dichloroethene	10.00	11.33	113	70-130
MTBE	10.00	10.32	103	70-130
n-Hexane	10.00	8.937	89	70-130
1,1-Dichloroethane	10.00	10.46	105	70-130
Vinyl Acetate	10.00	13.88 b	139 *	70-130
cis-1,2-Dichloroethene	10.00	9.959	100	70-130
2-Butanone	10.00	12.51	125	70-130
Ethyl Acetate	10.00	8.785	88	70-130
Tetrahydrofuran	10.00	12.63	126	70-130
Chloroform	10.00	9.579	96	70-130
1,1,1-Trichloroethane	10.00	10.87	109	70-130
Cyclohexane	10.00	11.39	114	70-130
Carbon Tetrachloride	10.00	8.469	85	70-130
Benzene	10.00	11.99	120	70-130
1,2-Dichloroethane	10.00	12.15	121	70-130
n-Heptane	10.00	11.96	120	70-130
Trichloroethene	10.00	9.871	99	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241170
Units (V):	ppbv	Analyzed:	11/09/16
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	12.05	121	70-130
Bromodichloromethane	10.00	11.51	115	70-130
cis-1,3-Dichloropropene	10.00	12.08	121	70-130
4-Methyl-2-Pentanone	10.00	12.44	124	70-130
Toluene	10.00	11.41	114	70-130
trans-1,3-Dichloropropene	10.00	11.75	117	70-130
1,1,2-Trichloroethane	10.00	12.55	125	70-130
Tetrachloroethene	10.00	10.49	105	70-130
2-Hexanone	10.00	11.91	119	70-130
Dibromochloromethane	10.00	9.992	100	70-130
1,2-Dibromoethane	10.00	11.55	116	70-130
Chlorobenzene	10.00	9.257	93	70-130
Ethylbenzene	10.00	11.05	110	70-130
m,p-Xylenes	20.00	24.86	124	70-130
o-Xylene	10.00	11.81	118	70-130
Styrene	10.00	10.18	102	70-130
Bromoform	10.00	9.829	98	70-130
1,1,2,2-Tetrachloroethane	10.00	10.47	105	70-130
4-Ethyltoluene	10.00	11.54	115	70-130
1,3,5-Trimethylbenzene	10.00	10.80	108	70-130
1,2,4-Trimethylbenzene	10.00	11.57	116	70-130
1,3-Dichlorobenzene	10.00	10.62	106	70-130
1,4-Dichlorobenzene	10.00	9.825	98	70-130
Benzyl chloride	10.00	10.44	104	70-130
1,2-Dichlorobenzene	10.00	9.750	98	70-130
1,2,4-Trichlorobenzene	10.00	10.18	102	70-130
Hexachlorobutadiene	10.00	9.731	97	70-130
Naphthalene	10.00	10.32	103	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241170
Units (V):	ppbv	Analyzed:	11/09/16
Diln Fac:	1.000		

Type: BSD Lab ID: QC859693

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	8.642	86	70-130	4	25
Freon 114	10.00	9.031	90	70-130	3	25
Chloromethane	10.00	9.253	93	70-130	5	25
Vinyl Chloride	10.00	9.633	96	70-130	5	25
1,3-Butadiene	10.00	8.852	89	70-130	4	25
Bromomethane	10.00	8.974	90	70-130	1	25
Chloroethane	10.00	9.867	99	70-130	10	25
Trichlorofluoromethane	10.00	9.369	94	70-130	5	25
Acrolein	10.00	8.533	85	70-130	1	25
1,1-Dichloroethene	10.00	11.63	116	70-130	4	25
Freon 113	10.00	10.26	103	70-130	4	25
Acetone	10.00	8.952	90	70-130	2	25
Carbon Disulfide	10.00	8.767	88	70-130	3	25
Isopropanol	10.00	9.090	91	70-130	3	25
Methylene Chloride	10.00	9.625	96	70-130	2	25
trans-1,2-Dichloroethene	10.00	11.54	115	70-130	2	25
MTBE	10.00	10.35	104	70-130	0	25
n-Hexane	10.00	9.113	91	70-130	2	25
1,1-Dichloroethane	10.00	10.42	104	70-130	0	25
Vinyl Acetate	10.00	13.92 b	139 *	70-130	0	25
cis-1,2-Dichloroethene	10.00	9.938	99	70-130	0	25
2-Butanone	10.00	12.86	129	70-130	3	25
Ethyl Acetate	10.00	8.855	89	70-130	1	25
Tetrahydrofuran	10.00	11.88	119	70-130	6	25
Chloroform	10.00	9.679	97	70-130	1	25
1,1,1-Trichloroethane	10.00	10.45	105	70-130	4	25
Cyclohexane	10.00	11.21	112	70-130	2	25
Carbon Tetrachloride	10.00	8.009	80	70-130	6	25
Benzene	10.00	11.67	117	70-130	3	25
1,2-Dichloroethane	10.00	11.63	116	70-130	4	25
n-Heptane	10.00	11.67	117	70-130	3	25
Trichloroethene	10.00	9.757	98	70-130	1	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241170
Units (V):	ppbv	Analyzed:	11/09/16
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	11.84	118	70-130	2	25
Bromodichloromethane	10.00	11.11	111	70-130	4	25
cis-1,3-Dichloropropene	10.00	11.78	118	70-130	3	25
4-Methyl-2-Pentanone	10.00	12.32	123	70-130	1	25
Toluene	10.00	11.57	116	70-130	1	25
trans-1,3-Dichloropropene	10.00	11.41	114	70-130	3	25
1,1,2-Trichloroethane	10.00	12.58	126	70-130	0	25
Tetrachloroethene	10.00	10.71	107	70-130	2	25
2-Hexanone	10.00	12.34	123	70-130	4	25
Dibromochloromethane	10.00	9.826	98	70-130	2	25
1,2-Dibromoethane	10.00	11.48	115	70-130	1	25
Chlorobenzene	10.00	9.567	96	70-130	3	25
Ethylbenzene	10.00	10.93	109	70-130	1	25
m,p-Xylenes	20.00	24.25	121	70-130	3	25
o-Xylene	10.00	11.31	113	70-130	4	25
Styrene	10.00	10.02	100	70-130	2	25
Bromoform	10.00	9.918	99	70-130	1	25
1,1,2,2-Tetrachloroethane	10.00	10.42	104	70-130	0	25
4-Ethyltoluene	10.00	11.26	113	70-130	2	25
1,3,5-Trimethylbenzene	10.00	10.26	103	70-130	5	25
1,2,4-Trimethylbenzene	10.00	10.95	110	70-130	5	25
1,3-Dichlorobenzene	10.00	10.48	105	70-130	1	25
1,4-Dichlorobenzene	10.00	9.526	95	70-130	3	25
Benzyl chloride	10.00	10.25	103	70-130	2	25
1,2-Dichlorobenzene	10.00	9.313	93	70-130	5	25
1,2,4-Trichlorobenzene	10.00	9.803	98	70-130	4	25
Hexachlorobutadiene	10.00	9.721	97	70-130	0	25
Naphthalene	10.00	9.926	99	70-130	4	25

Surrogate	%REC	Limits
Bromofluorobenzene	97	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC859694	Diln Fac:	1.000
Matrix:	Air	Batch#:	241170
Units (V):	ppbv	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC859694	Diln Fac:	1.000
Matrix:	Air	Batch#:	241170
Units (V):	ppbv	Analyzed:	11/09/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	84	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Fixed Gas Analysis

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Matrix:	Air	Sampled:	11/08/16
Units:	ppmv	Received:	11/08/16
Units (Mol %):	MOL %	Analyzed:	11/08/16
Batch#:	241147		

Field ID: SS-1 Lab ID: 283135-001
Type: SAMPLE Diln Fac: 2.150

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,200	ND	0.22
Methane	ND	2,200	ND	0.22

Field ID: SS-2 Lab ID: 283135-002
Type: SAMPLE Diln Fac: 1.900

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Methane	ND	1,900	ND	0.19

Field ID: SS-3 Lab ID: 283135-003
Type: SAMPLE Diln Fac: 2.130

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Methane	ND	2,100	ND	0.21

Field ID: SS-4 Lab ID: 283135-004
Type: SAMPLE Diln Fac: 2.090

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Methane	ND	2,100	ND	0.21

Field ID: SS-5 Lab ID: 283135-005
Type: SAMPLE Diln Fac: 3.060

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	3,100	ND	0.31
Methane	ND	3,100	ND	0.31

Type: BLANK Diln Fac: 1.000
Lab ID: QC859620

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	241147
Units:	ppmv	Analyzed:	11/08/16
Diln Fac:	1.000		

Type: BS Lab ID: QC859616

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	88,720	89	70-130
Methane		NA		

Type: BSD Lab ID: QC859617

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	87,610	88	70-130	1	20
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

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Batch QC Report

Fixed Gas Analysis

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC859618	Batch#:	241147
Matrix:	Air	Analyzed:	11/08/16
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Methane	2,000	1,872	94	70-130

NA= Not Analyzed

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Batch QC Report

Fixed Gas Analysis

Lab #:	283135	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Field ID:	SS-5	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	3.060
MSS Lab ID:	283135-005	Batch#:	241147
Lab ID:	QC859619	Sampled:	11/08/16
Matrix:	Air	Received:	11/08/16
Units:	ppmv	Analyzed:	11/08/16

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<3,060	ND	3,060	ND	0.3060	NC	30
Methane	<3,060	ND	3,060	ND	0.3060	NC	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 283812
ANALYTICAL REPORT

Langan Treadwell Rollo	Project : 750622603
555 Montgomery Street	Location : 1110 Jackson Street
San Francisco, CA 94111	Level : II

Sample ID	Lab ID
SS6	283812-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/01/2016

Dina Ali
Project Manager
dina.ali@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**283812**
Client:	**Langan Treadwell Rollo**
Project:	**750622603**
Location:	**1110 Jackson Street**
Request Date:	**11/30/16**
Samples Received:	**11/30/16**

This data package contains sample and QC results for one air sample, requested for the above referenced project on 11/30/16. The sample was received intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946):
No analytical problems were encountered.

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Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

AIR TESTING - CHAIN OF CUSTODY
& PURCHASE ORDER

Chain of Custody # :

C&T LOGIN # 283812

Project No: 750622603
Project Name: 1110 Jackson
EDD Format: _____ Rpt Level: II III IV
Turnaround Time: ~~RUSH~~ 24 ☐ Standard

Sampler: Neil Lin
Report To: Joshua Graber
Company : Langan
Telephone: 510-874-7000
Email:

Lab No.	Sample ID.	Sampling Information					TESTING REQUESTED				
		Date Collected	Time Collected	Canister ID (Bar Code #)	Flow Controller ID	Sample Volume (Gauge Reading)	He	CH4	TO-15		
1	SS6	11/30/16	1210	418		-7	✓	✓	✓		

Notes:

RELINQUISHED BY:

11-30-16 1355 DATE/TIME

DATE/TIME

DATE/TIME

RECEIVED BY:

Pat Gonzales 11/30/16 1355 DATE/TIME

Emil Ang 11/30/16 1415 DATE/TIME

DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 293812 Date Received 11/30/16 Number of coolers 0
Client Treadwell Project 1110 Jackson St

Date Opened 11/30 By (print) EWA (sign) [signature]
Date Logged in ↓ By (print) ↓ (sign) ↓
Date Labeled ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☑ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? (pH strip lot#) YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS
24 hr rush

Curtis & Tompkins, Ltd.

Detections Summary for 283812

Results for any subcontracted analyses are not included in this summary.

Client : Langan Treadwell Rollo
Project : 750622603
Location : 1110 Jackson Street

Client Sample ID : SS6 Laboratory Sample ID : 283812-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichlorofluoromethane	4.2		0.93	ppbv	As Recd	1.860	EPA TO-15	METHOD
Freon 113	1.5		0.93	ppbv	As Recd	1.860	EPA TO-15	METHOD
Acetone	97		3.7	ppbv	As Recd	1.860	EPA TO-15	METHOD
2-Butanone	2.9		0.93	ppbv	As Recd	1.860	EPA TO-15	METHOD
Cyclohexane	1.1		0.93	ppbv	As Recd	1.860	EPA TO-15	METHOD
Helium	4,100		1,900	ppmv	As Recd	1.860	ASTM D1946	METHOD

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS6	Diln Fac:	1.860
Lab ID:	283812-001	Batch#:	241863
Matrix:	Air	Sampled:	11/30/16
Units (V):	ppbv	Received:	11/30/16
Units (M):	ug/m3	Analyzed:	12/01/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.93	ND	4.6
Freon 114	ND	0.93	ND	6.5
Chloromethane	ND	0.93	ND	1.9
Vinyl Chloride	ND	0.93	ND	2.4
1,3-Butadiene	ND	0.93	ND	2.1
Bromomethane	ND	0.93	ND	3.6
Chloroethane	ND	0.93	ND	2.5
Trichlorofluoromethane	4.2	0.93	23	5.2
Acrolein	ND	3.7	ND	8.5
1,1-Dichloroethene	ND	0.93	ND	3.7
Freon 113	1.5	0.93	12	7.1
Acetone	97	3.7	230	8.8
Carbon Disulfide	ND	0.93	ND	2.9
Isopropanol	ND	3.7	ND	9.1
Methylene Chloride	ND	0.93	ND	3.2
trans-1,2-Dichloroethene	ND	0.93	ND	3.7
MTBE	ND	0.93	ND	3.4
n-Hexane	ND	0.93	ND	3.3
1,1-Dichloroethane	ND	0.93	ND	3.8
Vinyl Acetate	ND	0.93	ND	3.3
cis-1,2-Dichloroethene	ND	0.93	ND	3.7
2-Butanone	2.9	0.93	8.7	2.7
Ethyl Acetate	ND	0.93	ND	3.4
Tetrahydrofuran	ND	0.93	ND	2.7
Chloroform	ND	0.93	ND	4.5
1,1,1-Trichloroethane	ND	0.93	ND	5.1
Cyclohexane	1.1	0.93	3.9	3.2
Carbon Tetrachloride	ND	0.93	ND	5.9
Benzene	ND	0.93	ND	3.0
1,2-Dichloroethane	ND	0.93	ND	3.8
n-Heptane	ND	0.93	ND	3.8
Trichloroethene	ND	0.93	ND	5.0
1,2-Dichloropropane	ND	0.93	ND	4.3
Bromodichloromethane	ND	0.93	ND	6.2
cis-1,3-Dichloropropene	ND	0.93	ND	4.2

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Field ID:	SS6	Diln Fac:	1.860
Lab ID:	283812-001	Batch#:	241863
Matrix:	Air	Sampled:	11/30/16
Units (V):	ppbv	Received:	11/30/16
Units (M):	ug/m3	Analyzed:	12/01/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.93	ND	3.8
Toluene	ND	0.93	ND	3.5
trans-1,3-Dichloropropene	ND	0.93	ND	4.2
1,1,2-Trichloroethane	ND	0.93	ND	5.1
Tetrachloroethene	ND	0.93	ND	6.3
2-Hexanone	ND	0.93	ND	3.8
Dibromochloromethane	ND	0.93	ND	7.9
1,2-Dibromoethane	ND	0.93	ND	7.1
Chlorobenzene	ND	0.93	ND	4.3
Ethylbenzene	ND	0.93	ND	4.0
m,p-Xylenes	ND	0.93	ND	4.0
o-Xylene	ND	0.93	ND	4.0
Styrene	ND	0.93	ND	4.0
Bromoform	ND	0.93	ND	9.6
1,1,2,2-Tetrachloroethane	ND	0.93	ND	6.4
4-Ethyltoluene	ND	0.93	ND	4.6
1,3,5-Trimethylbenzene	ND	0.93	ND	4.6
1,2,4-Trimethylbenzene	ND	0.93	ND	4.6
1,3-Dichlorobenzene	ND	0.93	ND	5.6
1,4-Dichlorobenzene	ND	0.93	ND	5.6
Benzyl chloride	ND	0.93	ND	4.8
1,2-Dichlorobenzene	ND	0.93	ND	5.6
1,2,4-Trichlorobenzene	ND	0.93	ND	6.9
Hexachlorobutadiene	ND	0.93	ND	9.9
Naphthalene	ND	3.7	ND	20

Surrogate	%REC	Limits
Bromofluorobenzene	93	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241863
Units (V):	ppbv	Analyzed:	11/30/16
Diln Fac:	1.000		

Type: BS Lab ID: QC862484

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	8.518	85	70-130
Freon 114	10.00	8.721	87	70-130
Chloromethane	10.00	7.801	78	70-130
Vinyl Chloride	10.00	8.686	87	70-130
1,3-Butadiene	10.00	7.504	75	70-130
Bromomethane	10.00	8.097	81	70-130
Chloroethane	10.00	8.116	81	70-130
Trichlorofluoromethane	10.00	9.156	92	70-130
Acrolein	10.00	7.224	72	70-130
1,1-Dichloroethene	10.00	11.03	110	70-130
Freon 113	10.00	9.670	97	70-130
Acetone	10.00	7.576	76	70-130
Carbon Disulfide	10.00	8.307	83	70-130
Isopropanol	10.00	7.573	76	70-130
Methylene Chloride	10.00	8.595	86	70-130
trans-1,2-Dichloroethene	10.00	10.71	107	70-130
MTBE	10.00	9.423	94	70-130
n-Hexane	10.00	8.548	85	70-130
1,1-Dichloroethane	10.00	9.494	95	70-130
Vinyl Acetate	10.00	12.05	121	70-130
cis-1,2-Dichloroethene	10.00	9.450	95	70-130
2-Butanone	10.00	10.50	105	70-130
Ethyl Acetate	10.00	7.583	76	70-130
Tetrahydrofuran	10.00	10.09	101	70-130
Chloroform	10.00	8.920	89	70-130
1,1,1-Trichloroethane	10.00	9.524	95	70-130
Cyclohexane	10.00	10.08	101	70-130
Carbon Tetrachloride	10.00	7.814	78	70-130
Benzene	10.00	10.71	107	70-130
1,2-Dichloroethane	10.00	10.80	108	70-130
n-Heptane	10.00	9.474	95	70-130
Trichloroethene	10.00	8.871	89	70-130
1,2-Dichloropropane	10.00	10.61	106	70-130
Bromodichloromethane	10.00	10.22	102	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241863
Units (V):	ppbv	Analyzed:	11/30/16
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
cis-1,3-Dichloropropene	10.00	10.80	108	70-130
4-Methyl-2-Pentanone	10.00	9.914	99	70-130
Toluene	10.00	9.572	96	70-130
trans-1,3-Dichloropropene	10.00	10.53	105	70-130
1,1,2-Trichloroethane	10.00	11.22	112	70-130
Tetrachloroethene	10.00	9.026	90	70-130
2-Hexanone	10.00	8.717	87	70-130
Dibromochloromethane	10.00	9.016	90	70-130
1,2-Dibromoethane	10.00	10.09	101	70-130
Chlorobenzene	10.00	7.746	77	70-130
Ethylbenzene	10.00	9.248	92	70-130
m,p-Xylenes	20.00	20.35	102	70-130
o-Xylene	10.00	10.10	101	70-130
Styrene	10.00	8.541	85	70-130
Bromoform	10.00	8.846	88	70-130
1,1,2,2-Tetrachloroethane	10.00	9.698	97	70-130
4-Ethyltoluene	10.00	9.901	99	70-130
1,3,5-Trimethylbenzene	10.00	9.071	91	70-130
1,2,4-Trimethylbenzene	10.00	10.18	102	70-130
1,3-Dichlorobenzene	10.00	9.169	92	70-130
1,4-Dichlorobenzene	10.00	8.515	85	70-130
Benzyl chloride	10.00	8.600	86	70-130
1,2-Dichlorobenzene	10.00	8.307	83	70-130
1,2,4-Trichlorobenzene	10.00	9.381	94	70-130
Hexachlorobutadiene	10.00	9.123	91	70-130
Naphthalene	10.00	9.413	94	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241863
Units (V):	ppbv	Analyzed:	11/30/16
Diln Fac:	1.000		

Type: BSD Lab ID: QC862485

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	8.944	89	70-130	5	25
Freon 114	10.00	9.065	91	70-130	4	25
Chloromethane	10.00	9.360	94	70-130	18	25
Vinyl Chloride	10.00	9.700	97	70-130	11	25
1,3-Butadiene	10.00	7.959	80	70-130	6	25
Bromomethane	10.00	9.051	91	70-130	11	25
Chloroethane	10.00	8.815	88	70-130	8	25
Trichlorofluoromethane	10.00	9.468	95	70-130	3	25
Acrolein	10.00	7.475	75	70-130	3	25
1,1-Dichloroethene	10.00	11.19	112	70-130	1	25
Freon 113	10.00	9.639	96	70-130	0	25
Acetone	10.00	7.570	76	70-130	0	25
Carbon Disulfide	10.00	8.598	86	70-130	3	25
Isopropanol	10.00	7.845	78	70-130	4	25
Methylene Chloride	10.00	8.783	88	70-130	2	25
trans-1,2-Dichloroethene	10.00	10.79	108	70-130	1	25
MTBE	10.00	9.363	94	70-130	1	25
n-Hexane	10.00	8.681	87	70-130	2	25
1,1-Dichloroethane	10.00	9.690	97	70-130	2	25
Vinyl Acetate	10.00	12.01	120	70-130	0	25
cis-1,2-Dichloroethene	10.00	9.268	93	70-130	2	25
2-Butanone	10.00	10.45	105	70-130	0	25
Ethyl Acetate	10.00	7.488	75	70-130	1	25
Tetrahydrofuran	10.00	9.623	96	70-130	5	25
Chloroform	10.00	8.970	90	70-130	1	25
1,1,1-Trichloroethane	10.00	9.200	92	70-130	3	25
Cyclohexane	10.00	9.661	97	70-130	4	25
Carbon Tetrachloride	10.00	7.709	77	70-130	1	25
Benzene	10.00	10.54	105	70-130	2	25
1,2-Dichloroethane	10.00	10.29	103	70-130	5	25
n-Heptane	10.00	9.774	98	70-130	3	25
Trichloroethene	10.00	8.882	89	70-130	0	25
1,2-Dichloropropane	10.00	10.29	103	70-130	3	25
Bromodichloromethane	10.00	9.887	99	70-130	3	25

RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	241863
Units (V):	ppbv	Analyzed:	11/30/16
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
cis-1,3-Dichloropropene	10.00	10.67	107	70-130	1	25
4-Methyl-2-Pentanone	10.00	10.28	103	70-130	4	25
Toluene	10.00	9.724	97	70-130	2	25
trans-1,3-Dichloropropene	10.00	10.72	107	70-130	2	25
1,1,2-Trichloroethane	10.00	10.55	105	70-130	6	25
Tetrachloroethene	10.00	8.805	88	70-130	2	25
2-Hexanone	10.00	8.823	88	70-130	1	25
Dibromochloromethane	10.00	8.614	86	70-130	5	25
1,2-Dibromoethane	10.00	9.853	99	70-130	2	25
Chlorobenzene	10.00	8.090	81	70-130	4	25
Ethylbenzene	10.00	8.952	90	70-130	3	25
m,p-Xylenes	20.00	20.08	100	70-130	1	25
o-Xylene	10.00	9.792	98	70-130	3	25
Styrene	10.00	8.283	83	70-130	3	25
Bromoform	10.00	8.323	83	70-130	6	25
1,1,2,2-Tetrachloroethane	10.00	9.340	93	70-130	4	25
4-Ethyltoluene	10.00	9.389	94	70-130	5	25
1,3,5-Trimethylbenzene	10.00	8.656	87	70-130	5	25
1,2,4-Trimethylbenzene	10.00	9.642	96	70-130	5	25
1,3-Dichlorobenzene	10.00	8.834	88	70-130	4	25
1,4-Dichlorobenzene	10.00	8.370	84	70-130	2	25
Benzyl chloride	10.00	8.483	85	70-130	1	25
1,2-Dichlorobenzene	10.00	8.281	83	70-130	0	25
1,2,4-Trichlorobenzene	10.00	9.125	91	70-130	3	25
Hexachlorobutadiene	10.00	8.749	87	70-130	4	25
Naphthalene	10.00	8.572	86	70-130	9	25

Surrogate	%REC	Limits
Bromofluorobenzene	105	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC862486	Diln Fac:	1.000
Matrix:	Air	Batch#:	241863
Units (V):	ppbv	Analyzed:	11/30/16

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC862486	Diln Fac:	1.000
Matrix:	Air	Batch#:	241863
Units (V):	ppbv	Analyzed:	11/30/16

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	90	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Fixed Gas Analysis

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Field ID:	SS6	Batch#:	241882
Matrix:	Air	Sampled:	11/30/16
Units:	ppmv	Received:	11/30/16
Units (Mol %):	MOL %	Analyzed:	11/30/16

Type: SAMPLE Diln Fac: 1.860
Lab ID: 283812-001

Analyte	Result	RL	Result (Mol %)	RL
Helium	4,100	1,900	0.41	0.19
Methane	ND	1,900	ND	0.19

Type: BLANK Diln Fac: 1.000
Lab ID: QC862568

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	241882
Units:	ppmv	Analyzed:	11/30/16
Diln Fac:	1.000		

Type: BS Lab ID: QC862564

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	77,590	78	70-130
Methane		NA		

Type: BSD Lab ID: QC862565

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	77,780	78	70-130	0	20
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Field ID:	SS6	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	1.860
MSS Lab ID:	283812-001	Batch#:	241882
Lab ID:	QC862566	Sampled:	11/30/16
Matrix:	Air	Received:	11/30/16
Units:	ppmv	Analyzed:	11/30/16

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	4,057	3,994	1,860	0.3994	0.1860	2	30
Methane	<1,860	ND	1,860	ND	0.1860	NC	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	283812	Location:	1110 Jackson Street
Client:	Langan Treadwell Rollo	Prep:	METHOD
Project#:	750622603	Analysis:	ASTM D1946
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC862567	Batch#:	241882
Matrix:	Air	Analyzed:	11/30/16
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Methane	2,000	1,852	93	70-130

NA= Not Analyzed

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1611852 A

Report Created for: Langan

501 14th Street, 3rd Floor
Oakland, CA 94612

Project Contact: Josh Graber
Project P.O.:
Project Name: 750622603; 1110 Jackson Street

Project Received: 11/17/2016

Analytical Report reviewed & approved for release on 11/23/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Langan
Project: 750622603; 1110 Jackson Street
WorkOrder: 1611852

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Langan
Project: 750622603; 1110 Jackson Street
WorkOrder: 1611852

Analytical Qualifiers

S	surrogate spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
b1	aqueous sample that contains greater than ~1 vol. % sediment
C1	surrogate recovery outside of the control limits due to the dilution of the sample.
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/23/16	**Analytical Method:**	SW8015B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	**1611852-012C**	**Water**	**11/16/2016 13:37**	**GC9a**	**130284**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**70**	48	1	11/23/2016 14:50
TPH-Motor Oil (C18-C36)	**100**	100	1	11/23/2016 14:50

Surrogates	REC (%)	Limits	
C26	92	70-130	11/23/2016 14:50

Analyst(s): TK Analytical Comments: e7,e2,b1

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/23/16	**BatchID:**	130284
Date Analyzed:	11/23/16	**Extraction Method:**	SW3510C
Instrument:	GC6A, GC9b	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS/LCSD-130284

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	35	-	-	-
TPH-Motor Oil (C18-C36)	ND	75	-	-	-
Surrogate Recovery					
C26	107		125	85	70-112

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	199	203	200	100	102	60-142	1.88	30
Surrogate Recovery								
C26	116	118	125	93	95	70-112	1.75	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1611852 A **ClientCode: TWRK**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Josh Graber
Langan
501 14th Street, 3rd Floor
Oakland, CA 94612
(415) 955-9040 FAX: (415) 955-9041

Email: jdgraber@treadwellrollo.com
cc/3rd Party: kstaehlin@langan.com;
PO:
ProjectNo: 750622603; 1110 Jackson Street

Bill to:
Accounts Payable
Langan
555 Montgomery St., Suite 1300
San Francisco, CA 94111
Langan_InvoiceCapture@concursolutio

Requested TAT: 1 day;

Date Received: **11/17/2016**
Date Logged: **11/17/2016**
Date Add-On: **11/23/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1611852-012	EB-8-GW	Water	11/16/2016 13:37	☐	C											

Test Legend:

1	TPH(DMO)LV_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Add-On Prepared By: Jena Alfaro

Comments: LV DMO added to 012 11/23/16 1D TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: LANGAN
Client Contact: Josh Graber
Contact's Email jdgraber@treadwellrollo.com

Project: 750622603; 1110 Jackson Street
Comments: LV DMO added to 012 11/23/16 1D TAT

Work Order: 1611852
QC Level: LEVEL 2
Date Logged: 11/17/2016
Date Add-On: 11/23/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611852-012C	EB-8-GW	Water	SW8015B (TPH-d,mo)	1	1LA w/ HCl	11/16/2016 13:37	1 day	35%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1611852

*PLEASE C.C. ANNIE S. AT *10244
KSTAEHLIN@LANGAN.COM

LANGAN

CHAIN OF CUSTODY RECORD

RUSH

Page 1 of 1

555 Montgomery Street. Suite 1300, San Francisco, CA 94111
501 14th Street, Third Floor, Oakland CA 94612
3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
4030 Moorpark Ave. Suite 210, San Jose, CA 95117-1849

Site Name: 1110 JACKSON STREET
Job Number: 750622603
Project Manager\Contact: JOSH GRABER (510-874-7030)
Samplers: KSS
Recorder (Signature Required):

Turnaround Time: 72-HOUR

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: TPH gas/mo	VOCs (8260)	PAHs (8310)	LUFT 5	DHS LV 11/23/16	Silica gel clean-up	Hold	Remarks
EB-5-4.5	11/16/16	1430		X							X	X	X	X	X				
EB-5-8.5		1433		X							X	X	X	X					
EB-6-4.5		0740		X							X	X	X	X					
EB-6-8.5		0744		X							X	X	X	X					
EB-7-4.5		0946		X							X	X	X	X					
EB-7-8.5		0952		X							X	X	X	X					
EB-8-4.5		1236		X							X	X	X	X					
EB-8-8.5		1241		X							X	X	X	X					
+40 EB-5-GW		1524			X			5			2	X	X	X					
+10 EB-6-GW		0912			X			5			2	X	X	X					
+30 EB-7-GW		1046			X			5			2	X	X	X					
+35 EB-8-GW	11/16/16	1337			X			5			2	X	X	X	X				

Relinquished by: (Signature)	Date: 11/17/2016	Time 0930	Received by: (Signature)
Relinquished by: (Signature)	Date: 11-17-16	Time 1720	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time	Received by Lab: (Signature)

Received by: (Signature) — Date 11-17-16 Time 1400
Received by: (Signature) — Date — Time
Received by Lab: (Signature) — Date 11/17/16 Time 1720

Sent to Laboratory (Name): McCAMPBELL ANALYTICAL
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS
[ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 6.4

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1611852

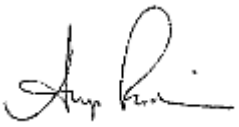
Report Created for: Langan

501 14th Street, 3rd Floor
Oakland, CA 94612

Project Contact: Josh Graber
Project P.O.:
Project Name: 750622603; 1110 Jackson Street

Project Received: 11/17/2016

Analytical Report reviewed & approved for release on 11/23/2016 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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CA ELAP 1644 ♦ NELAP 4033ORELAP

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Glossary of Terms & Qualifier Definitions

Client: Langan
Project: 750622603; 1110 Jackson Street
WorkOrder: 1611852

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Langan
Project: 750622603; 1110 Jackson Street
WorkOrder: 1611852

Analytical Qualifiers

S	surrogate spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
b1	aqueous sample that contains greater than ~1 vol. % sediment
C1	surrogate recovery outside of the control limits due to the dilution of the sample.
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	1611852-001A	Soil	11/16/2016 14:30	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 15:01
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 15:01
Benzene	ND	0.0050	1	11/18/2016 15:01
Bromobenzene	ND	0.0050	1	11/18/2016 15:01
Bromochloromethane	ND	0.0050	1	11/18/2016 15:01
Bromodichloromethane	ND	0.0050	1	11/18/2016 15:01
Bromoform	ND	0.0050	1	11/18/2016 15:01
Bromomethane	ND	0.0050	1	11/18/2016 15:01
2-Butanone (MEK)	ND	0.020	1	11/18/2016 15:01
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 15:01
n-Butyl benzene	ND	0.0050	1	11/18/2016 15:01
sec-Butyl benzene	ND	0.0050	1	11/18/2016 15:01
tert-Butyl benzene	ND	0.0050	1	11/18/2016 15:01
Carbon Disulfide	ND	0.0050	1	11/18/2016 15:01
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 15:01
Chlorobenzene	ND	0.0050	1	11/18/2016 15:01
Chloroethane	ND	0.0050	1	11/18/2016 15:01
Chloroform	ND	0.0050	1	11/18/2016 15:01
Chloromethane	ND	0.0050	1	11/18/2016 15:01
2-Chlorotoluene	ND	0.0050	1	11/18/2016 15:01
4-Chlorotoluene	ND	0.0050	1	11/18/2016 15:01
Dibromochloromethane	ND	0.0050	1	11/18/2016 15:01
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 15:01
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 15:01
Dibromomethane	ND	0.0050	1	11/18/2016 15:01
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 15:01
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 15:01
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 15:01
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 15:01
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 15:01
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 15:01
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 15:01
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 15:01
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 15:01
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 15:01
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 15:01
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 15:01

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	1611852-001A	Soil	11/16/2016 14:30	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 15:01
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 15:01
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 15:01
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 15:01
Ethylbenzene	ND	0.0050	1	11/18/2016 15:01
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 15:01
Freon 113	ND	0.0050	1	11/18/2016 15:01
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 15:01
Hexachloroethane	ND	0.0050	1	11/18/2016 15:01
2-Hexanone	ND	0.0050	1	11/18/2016 15:01
Isopropylbenzene	ND	0.0050	1	11/18/2016 15:01
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 15:01
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 15:01
Methylene chloride	ND	0.0050	1	11/18/2016 15:01
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 15:01
Naphthalene	ND	0.0050	1	11/18/2016 15:01
n-Propyl benzene	ND	0.0050	1	11/18/2016 15:01
Styrene	ND	0.0050	1	11/18/2016 15:01
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 15:01
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 15:01
Tetrachloroethene	ND	0.0050	1	11/18/2016 15:01
Toluene	ND	0.0050	1	11/18/2016 15:01
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 15:01
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 15:01
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 15:01
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 15:01
Trichloroethene	ND	0.0050	1	11/18/2016 15:01
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 15:01
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 15:01
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 15:01
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 15:01
Vinyl Chloride	ND	0.0050	1	11/18/2016 15:01
Xylenes, Total	ND	0.0050	1	11/18/2016 15:01

(Cont.)

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	**1611852-001A**	**Soil**	**11/16/2016 14:30**	**GC10**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	102	70-130		11/18/2016 15:01
Toluene-d8	116	70-130		11/18/2016 15:01
4-BFB	92	70-130		11/18/2016 15:01
Benzene-d6	108	60-140		11/18/2016 15:01
Ethylbenzene-d10	135	60-140		11/18/2016 15:01
1,2-DCB-d4	103	60-140		11/18/2016 15:01

Analyst(s): AK

(Cont.)

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	1611852-002A	Soil	11/16/2016 14:33	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 15:49
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 15:49
Benzene	ND	0.0050	1	11/18/2016 15:49
Bromobenzene	ND	0.0050	1	11/18/2016 15:49
Bromochloromethane	ND	0.0050	1	11/18/2016 15:49
Bromodichloromethane	ND	0.0050	1	11/18/2016 15:49
Bromoform	ND	0.0050	1	11/18/2016 15:49
Bromomethane	ND	0.0050	1	11/18/2016 15:49
2-Butanone (MEK)	ND	0.020	1	11/18/2016 15:49
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 15:49
n-Butyl benzene	ND	0.0050	1	11/18/2016 15:49
sec-Butyl benzene	ND	0.0050	1	11/18/2016 15:49
tert-Butyl benzene	ND	0.0050	1	11/18/2016 15:49
Carbon Disulfide	ND	0.0050	1	11/18/2016 15:49
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 15:49
Chlorobenzene	ND	0.0050	1	11/18/2016 15:49
Chloroethane	ND	0.0050	1	11/18/2016 15:49
Chloroform	ND	0.0050	1	11/18/2016 15:49
Chloromethane	ND	0.0050	1	11/18/2016 15:49
2-Chlorotoluene	ND	0.0050	1	11/18/2016 15:49
4-Chlorotoluene	ND	0.0050	1	11/18/2016 15:49
Dibromochloromethane	ND	0.0050	1	11/18/2016 15:49
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 15:49
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 15:49
Dibromomethane	ND	0.0050	1	11/18/2016 15:49
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 15:49
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 15:49
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 15:49
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 15:49
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 15:49
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 15:49
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 15:49
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 15:49
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 15:49
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 15:49
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 15:49
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 15:49

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	1611852-002A	Soil	11/16/2016 14:33	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 15:49
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 15:49
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 15:49
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 15:49
Ethylbenzene	ND	0.0050	1	11/18/2016 15:49
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 15:49
Freon 113	ND	0.0050	1	11/18/2016 15:49
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 15:49
Hexachloroethane	ND	0.0050	1	11/18/2016 15:49
2-Hexanone	ND	0.0050	1	11/18/2016 15:49
Isopropylbenzene	ND	0.0050	1	11/18/2016 15:49
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 15:49
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 15:49
Methylene chloride	ND	0.0050	1	11/18/2016 15:49
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 15:49
Naphthalene	ND	0.0050	1	11/18/2016 15:49
n-Propyl benzene	ND	0.0050	1	11/18/2016 15:49
Styrene	ND	0.0050	1	11/18/2016 15:49
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 15:49
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 15:49
Tetrachloroethene	ND	0.0050	1	11/18/2016 15:49
Toluene	ND	0.0050	1	11/18/2016 15:49
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 15:49
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 15:49
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 15:49
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 15:49
Trichloroethene	ND	0.0050	1	11/18/2016 15:49
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 15:49
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 15:49
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 15:49
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 15:49
Vinyl Chloride	ND	0.0050	1	11/18/2016 15:49
Xylenes, Total	ND	0.0050	1	11/18/2016 15:49

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	**1611852-002A**	**Soil**	**11/16/2016 14:33**	**GC10**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	103	70-130		11/18/2016 15:49
Toluene-d8	112	70-130		11/18/2016 15:49
4-BFB	91	70-130		11/18/2016 15:49
Benzene-d6	93	60-140		11/18/2016 15:49
Ethylbenzene-d10	110	60-140		11/18/2016 15:49
1,2-DCB-d4	91	60-140		11/18/2016 15:49

Analyst(s): AK

(Cont.)

NELAP 4033ORELAP

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	1611852-003A	Soil	11/16/2016 07:40	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 16:29
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 16:29
Benzene	ND	0.0050	1	11/18/2016 16:29
Bromobenzene	ND	0.0050	1	11/18/2016 16:29
Bromochloromethane	ND	0.0050	1	11/18/2016 16:29
Bromodichloromethane	ND	0.0050	1	11/18/2016 16:29
Bromoform	ND	0.0050	1	11/18/2016 16:29
Bromomethane	ND	0.0050	1	11/18/2016 16:29
2-Butanone (MEK)	ND	0.020	1	11/18/2016 16:29
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 16:29
n-Butyl benzene	ND	0.0050	1	11/18/2016 16:29
sec-Butyl benzene	ND	0.0050	1	11/18/2016 16:29
tert-Butyl benzene	ND	0.0050	1	11/18/2016 16:29
Carbon Disulfide	ND	0.0050	1	11/18/2016 16:29
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 16:29
Chlorobenzene	ND	0.0050	1	11/18/2016 16:29
Chloroethane	ND	0.0050	1	11/18/2016 16:29
Chloroform	ND	0.0050	1	11/18/2016 16:29
Chloromethane	ND	0.0050	1	11/18/2016 16:29
2-Chlorotoluene	ND	0.0050	1	11/18/2016 16:29
4-Chlorotoluene	ND	0.0050	1	11/18/2016 16:29
Dibromochloromethane	ND	0.0050	1	11/18/2016 16:29
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 16:29
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 16:29
Dibromomethane	ND	0.0050	1	11/18/2016 16:29
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 16:29
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 16:29
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 16:29
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 16:29
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 16:29
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 16:29
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 16:29
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 16:29
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 16:29
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 16:29
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 16:29
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 16:29

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	1611852-003A	Soil	11/16/2016 07:40	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 16:29
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 16:29
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 16:29
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 16:29
Ethylbenzene	ND	0.0050	1	11/18/2016 16:29
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 16:29
Freon 113	ND	0.0050	1	11/18/2016 16:29
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 16:29
Hexachloroethane	ND	0.0050	1	11/18/2016 16:29
2-Hexanone	ND	0.0050	1	11/18/2016 16:29
Isopropylbenzene	ND	0.0050	1	11/18/2016 16:29
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 16:29
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 16:29
Methylene chloride	ND	0.0050	1	11/18/2016 16:29
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 16:29
Naphthalene	**0.010**	0.0050	1	11/18/2016 16:29
n-Propyl benzene	ND	0.0050	1	11/18/2016 16:29
Styrene	ND	0.0050	1	11/18/2016 16:29
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 16:29
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 16:29
Tetrachloroethene	ND	0.0050	1	11/18/2016 16:29
Toluene	ND	0.0050	1	11/18/2016 16:29
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 16:29
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 16:29
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 16:29
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 16:29
Trichloroethene	ND	0.0050	1	11/18/2016 16:29
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 16:29
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 16:29
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 16:29
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 16:29
Vinyl Chloride	ND	0.0050	1	11/18/2016 16:29
Xylenes, Total	ND	0.0050	1	11/18/2016 16:29

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	**1611852-003A**	**Soil**	**11/16/2016 07:40**	**GC10**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	104	70-130		11/18/2016 16:29
Toluene-d8	111	70-130		11/18/2016 16:29
4-BFB	91	70-130		11/18/2016 16:29
Benzene-d6	96	60-140		11/18/2016 16:29
Ethylbenzene-d10	112	60-140		11/18/2016 16:29
1,2-DCB-d4	92	60-140		11/18/2016 16:29

Analyst(s): AK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	1611852-004A	Soil	11/16/2016 07:44	GC18	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 17:13
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 17:13
Benzene	ND	0.0050	1	11/18/2016 17:13
Bromobenzene	ND	0.0050	1	11/18/2016 17:13
Bromochloromethane	ND	0.0050	1	11/18/2016 17:13
Bromodichloromethane	ND	0.0050	1	11/18/2016 17:13
Bromoform	ND	0.0050	1	11/18/2016 17:13
Bromomethane	ND	0.0050	1	11/18/2016 17:13
2-Butanone (MEK)	ND	0.020	1	11/18/2016 17:13
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 17:13
n-Butyl benzene	ND	0.0050	1	11/18/2016 17:13
sec-Butyl benzene	ND	0.0050	1	11/18/2016 17:13
tert-Butyl benzene	ND	0.0050	1	11/18/2016 17:13
Carbon Disulfide	ND	0.0050	1	11/18/2016 17:13
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 17:13
Chlorobenzene	ND	0.0050	1	11/18/2016 17:13
Chloroethane	ND	0.0050	1	11/18/2016 17:13
Chloroform	ND	0.0050	1	11/18/2016 17:13
Chloromethane	ND	0.0050	1	11/18/2016 17:13
2-Chlorotoluene	ND	0.0050	1	11/18/2016 17:13
4-Chlorotoluene	ND	0.0050	1	11/18/2016 17:13
Dibromochloromethane	ND	0.0050	1	11/18/2016 17:13
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 17:13
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 17:13
Dibromomethane	ND	0.0050	1	11/18/2016 17:13
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:13
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:13
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:13
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 17:13
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 17:13
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 17:13
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 17:13
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:13
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:13
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:13
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 17:13
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:13

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	1611852-004A	Soil	11/16/2016 07:44	GC18	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 17:13
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:13
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:13
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 17:13
Ethylbenzene	ND	0.0050	1	11/18/2016 17:13
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 17:13
Freon 113	ND	0.0050	1	11/18/2016 17:13
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 17:13
Hexachloroethane	ND	0.0050	1	11/18/2016 17:13
2-Hexanone	ND	0.0050	1	11/18/2016 17:13
Isopropylbenzene	ND	0.0050	1	11/18/2016 17:13
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 17:13
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 17:13
Methylene chloride	ND	0.0050	1	11/18/2016 17:13
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 17:13
Naphthalene	ND	0.0050	1	11/18/2016 17:13
n-Propyl benzene	ND	0.0050	1	11/18/2016 17:13
Styrene	ND	0.0050	1	11/18/2016 17:13
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:13
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:13
Tetrachloroethene	ND	0.0050	1	11/18/2016 17:13
Toluene	ND	0.0050	1	11/18/2016 17:13
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:13
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:13
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 17:13
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 17:13
Trichloroethene	ND	0.0050	1	11/18/2016 17:13
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 17:13
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 17:13
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:13
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:13
Vinyl Chloride	ND	0.0050	1	11/18/2016 17:13
Xylenes, Total	ND	0.0050	1	11/18/2016 17:13

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	**1611852-004A**	**Soil**	**11/16/2016 07:44**	**GC18**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	98	70-130		11/18/2016 17:13
Toluene-d8	104	70-130		11/18/2016 17:13
4-BFB	95	70-130		11/18/2016 17:13
Benzene-d6	89	60-140		11/18/2016 17:13
Ethylbenzene-d10	103	60-140		11/18/2016 17:13
1,2-DCB-d4	77	60-140		11/18/2016 17:13

Analyst(s): AK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	1611852-005A	Soil	11/16/2016 09:46	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 17:10
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 17:10
Benzene	ND	0.0050	1	11/18/2016 17:10
Bromobenzene	ND	0.0050	1	11/18/2016 17:10
Bromochloromethane	ND	0.0050	1	11/18/2016 17:10
Bromodichloromethane	ND	0.0050	1	11/18/2016 17:10
Bromoform	ND	0.0050	1	11/18/2016 17:10
Bromomethane	ND	0.0050	1	11/18/2016 17:10
2-Butanone (MEK)	ND	0.020	1	11/18/2016 17:10
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 17:10
n-Butyl benzene	ND	0.0050	1	11/18/2016 17:10
sec-Butyl benzene	ND	0.0050	1	11/18/2016 17:10
tert-Butyl benzene	ND	0.0050	1	11/18/2016 17:10
Carbon Disulfide	ND	0.0050	1	11/18/2016 17:10
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 17:10
Chlorobenzene	ND	0.0050	1	11/18/2016 17:10
Chloroethane	ND	0.0050	1	11/18/2016 17:10
Chloroform	ND	0.0050	1	11/18/2016 17:10
Chloromethane	ND	0.0050	1	11/18/2016 17:10
2-Chlorotoluene	ND	0.0050	1	11/18/2016 17:10
4-Chlorotoluene	ND	0.0050	1	11/18/2016 17:10
Dibromochloromethane	ND	0.0050	1	11/18/2016 17:10
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 17:10
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 17:10
Dibromomethane	ND	0.0050	1	11/18/2016 17:10
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:10
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:10
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:10
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 17:10
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 17:10
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 17:10
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 17:10
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:10
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:10
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:10
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 17:10
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:10

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	1611852-005A	Soil	11/16/2016 09:46	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 17:10
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:10
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:10
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 17:10
Ethylbenzene	ND	0.0050	1	11/18/2016 17:10
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 17:10
Freon 113	ND	0.0050	1	11/18/2016 17:10
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 17:10
Hexachloroethane	ND	0.0050	1	11/18/2016 17:10
2-Hexanone	ND	0.0050	1	11/18/2016 17:10
Isopropylbenzene	ND	0.0050	1	11/18/2016 17:10
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 17:10
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 17:10
Methylene chloride	ND	0.0050	1	11/18/2016 17:10
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 17:10
Naphthalene	ND	0.0050	1	11/18/2016 17:10
n-Propyl benzene	ND	0.0050	1	11/18/2016 17:10
Styrene	ND	0.0050	1	11/18/2016 17:10
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:10
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:10
Tetrachloroethene	ND	0.0050	1	11/18/2016 17:10
Toluene	ND	0.0050	1	11/18/2016 17:10
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:10
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:10
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 17:10
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 17:10
Trichloroethene	ND	0.0050	1	11/18/2016 17:10
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 17:10
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 17:10
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:10
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:10
Vinyl Chloride	ND	0.0050	1	11/18/2016 17:10
Xylenes, Total	ND	0.0050	1	11/18/2016 17:10

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	**1611852-005A**	**Soil**	**11/16/2016 09:46**	**GC10**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	103	70-130		11/18/2016 17:10
Toluene-d8	112	70-130		11/18/2016 17:10
4-BFB	91	70-130		11/18/2016 17:10
Benzene-d6	95	60-140		11/18/2016 17:10
Ethylbenzene-d10	110	60-140		11/18/2016 17:10
1,2-DCB-d4	90	60-140		11/18/2016 17:10

Analyst(s): AK

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NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	1611852-006A	Soil	11/16/2016 09:52	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 17:51
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 17:51
Benzene	ND	0.0050	1	11/18/2016 17:51
Bromobenzene	ND	0.0050	1	11/18/2016 17:51
Bromochloromethane	ND	0.0050	1	11/18/2016 17:51
Bromodichloromethane	ND	0.0050	1	11/18/2016 17:51
Bromoform	ND	0.0050	1	11/18/2016 17:51
Bromomethane	ND	0.0050	1	11/18/2016 17:51
2-Butanone (MEK)	ND	0.020	1	11/18/2016 17:51
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 17:51
n-Butyl benzene	ND	0.0050	1	11/18/2016 17:51
sec-Butyl benzene	ND	0.0050	1	11/18/2016 17:51
tert-Butyl benzene	ND	0.0050	1	11/18/2016 17:51
Carbon Disulfide	ND	0.0050	1	11/18/2016 17:51
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 17:51
Chlorobenzene	ND	0.0050	1	11/18/2016 17:51
Chloroethane	ND	0.0050	1	11/18/2016 17:51
Chloroform	ND	0.0050	1	11/18/2016 17:51
Chloromethane	ND	0.0050	1	11/18/2016 17:51
2-Chlorotoluene	ND	0.0050	1	11/18/2016 17:51
4-Chlorotoluene	ND	0.0050	1	11/18/2016 17:51
Dibromochloromethane	ND	0.0050	1	11/18/2016 17:51
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 17:51
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 17:51
Dibromomethane	ND	0.0050	1	11/18/2016 17:51
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:51
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:51
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:51
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 17:51
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 17:51
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 17:51
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 17:51
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:51
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:51
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:51
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 17:51
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:51

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	1611852-006A	Soil	11/16/2016 09:52	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 17:51
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:51
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:51
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 17:51
Ethylbenzene	ND	0.0050	1	11/18/2016 17:51
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 17:51
Freon 113	ND	0.0050	1	11/18/2016 17:51
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 17:51
Hexachloroethane	ND	0.0050	1	11/18/2016 17:51
2-Hexanone	ND	0.0050	1	11/18/2016 17:51
Isopropylbenzene	ND	0.0050	1	11/18/2016 17:51
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 17:51
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 17:51
Methylene chloride	ND	0.0050	1	11/18/2016 17:51
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 17:51
Naphthalene	ND	0.0050	1	11/18/2016 17:51
n-Propyl benzene	ND	0.0050	1	11/18/2016 17:51
Styrene	ND	0.0050	1	11/18/2016 17:51
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:51
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:51
Tetrachloroethene	ND	0.0050	1	11/18/2016 17:51
Toluene	ND	0.0050	1	11/18/2016 17:51
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:51
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:51
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 17:51
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 17:51
Trichloroethene	ND	0.0050	1	11/18/2016 17:51
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 17:51
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 17:51
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:51
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:51
Vinyl Chloride	ND	0.0050	1	11/18/2016 17:51
Xylenes, Total	ND	0.0050	1	11/18/2016 17:51

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	**1611852-006A**	**Soil**	**11/16/2016 09:52**	**GC10**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	104	70-130		11/18/2016 17:51
Toluene-d8	112	70-130		11/18/2016 17:51
4-BFB	91	70-130		11/18/2016 17:51
Benzene-d6	97	60-140		11/18/2016 17:51
Ethylbenzene-d10	113	60-140		11/18/2016 17:51
1,2-DCB-d4	92	60-140		11/18/2016 17:51

Analyst(s): AK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	1611852-007A	Soil	11/16/2016 12:36	GC18	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/18/2016 17:52
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/18/2016 17:52
Benzene	ND	0.0050	1	11/18/2016 17:52
Bromobenzene	ND	0.0050	1	11/18/2016 17:52
Bromochloromethane	ND	0.0050	1	11/18/2016 17:52
Bromodichloromethane	ND	0.0050	1	11/18/2016 17:52
Bromoform	ND	0.0050	1	11/18/2016 17:52
Bromomethane	ND	0.0050	1	11/18/2016 17:52
2-Butanone (MEK)	ND	0.020	1	11/18/2016 17:52
t-Butyl alcohol (TBA)	ND	0.050	1	11/18/2016 17:52
n-Butyl benzene	ND	0.0050	1	11/18/2016 17:52
sec-Butyl benzene	ND	0.0050	1	11/18/2016 17:52
tert-Butyl benzene	ND	0.0050	1	11/18/2016 17:52
Carbon Disulfide	ND	0.0050	1	11/18/2016 17:52
Carbon Tetrachloride	ND	0.0050	1	11/18/2016 17:52
Chlorobenzene	ND	0.0050	1	11/18/2016 17:52
Chloroethane	ND	0.0050	1	11/18/2016 17:52
Chloroform	ND	0.0050	1	11/18/2016 17:52
Chloromethane	ND	0.0050	1	11/18/2016 17:52
2-Chlorotoluene	ND	0.0050	1	11/18/2016 17:52
4-Chlorotoluene	ND	0.0050	1	11/18/2016 17:52
Dibromochloromethane	ND	0.0050	1	11/18/2016 17:52
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/18/2016 17:52
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/18/2016 17:52
Dibromomethane	ND	0.0050	1	11/18/2016 17:52
1,2-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:52
1,3-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:52
1,4-Dichlorobenzene	ND	0.0050	1	11/18/2016 17:52
Dichlorodifluoromethane	ND	0.0050	1	11/18/2016 17:52
1,1-Dichloroethane	ND	0.0050	1	11/18/2016 17:52
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/18/2016 17:52
1,1-Dichloroethene	ND	0.0050	1	11/18/2016 17:52
cis-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:52
trans-1,2-Dichloroethene	ND	0.0050	1	11/18/2016 17:52
1,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:52
1,3-Dichloropropane	ND	0.0050	1	11/18/2016 17:52
2,2-Dichloropropane	ND	0.0050	1	11/18/2016 17:52

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	1611852-007A	Soil	11/16/2016 12:36	GC18	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/18/2016 17:52
cis-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:52
trans-1,3-Dichloropropene	ND	0.0050	1	11/18/2016 17:52
Diisopropyl ether (DIPE)	ND	0.0050	1	11/18/2016 17:52
Ethylbenzene	ND	0.0050	1	11/18/2016 17:52
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/18/2016 17:52
Freon 113	ND	0.0050	1	11/18/2016 17:52
Hexachlorobutadiene	ND	0.0050	1	11/18/2016 17:52
Hexachloroethane	ND	0.0050	1	11/18/2016 17:52
2-Hexanone	ND	0.0050	1	11/18/2016 17:52
Isopropylbenzene	ND	0.0050	1	11/18/2016 17:52
4-Isopropyl toluene	ND	0.0050	1	11/18/2016 17:52
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/18/2016 17:52
Methylene chloride	ND	0.0050	1	11/18/2016 17:52
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/18/2016 17:52
Naphthalene	ND	0.0050	1	11/18/2016 17:52
n-Propyl benzene	ND	0.0050	1	11/18/2016 17:52
Styrene	ND	0.0050	1	11/18/2016 17:52
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:52
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/18/2016 17:52
Tetrachloroethene	ND	0.0050	1	11/18/2016 17:52
Toluene	ND	0.0050	1	11/18/2016 17:52
1,2,3-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:52
1,2,4-Trichlorobenzene	ND	0.0050	1	11/18/2016 17:52
1,1,1-Trichloroethane	ND	0.0050	1	11/18/2016 17:52
1,1,2-Trichloroethane	ND	0.0050	1	11/18/2016 17:52
Trichloroethene	ND	0.0050	1	11/18/2016 17:52
Trichlorofluoromethane	ND	0.0050	1	11/18/2016 17:52
1,2,3-Trichloropropane	ND	0.0050	1	11/18/2016 17:52
1,2,4-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:52
1,3,5-Trimethylbenzene	ND	0.0050	1	11/18/2016 17:52
Vinyl Chloride	ND	0.0050	1	11/18/2016 17:52
Xylenes, Total	ND	0.0050	1	11/18/2016 17:52

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	**1611852-007A**	**Soil**	**11/16/2016 12:36**	**GC18**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	97	70-130		11/18/2016 17:52
Toluene-d8	106	70-130		11/18/2016 17:52
4-BFB	94	70-130		11/18/2016 17:52
Benzene-d6	88	60-140		11/18/2016 17:52
Ethylbenzene-d10	103	60-140		11/18/2016 17:52
1,2-DCB-d4	77	60-140		11/18/2016 17:52

Analyst(s): AK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	1611852-008A	Soil	11/16/2016 12:41	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/19/2016 02:39
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/19/2016 02:39
Benzene	ND	0.0050	1	11/19/2016 02:39
Bromobenzene	ND	0.0050	1	11/19/2016 02:39
Bromochloromethane	ND	0.0050	1	11/19/2016 02:39
Bromodichloromethane	ND	0.0050	1	11/19/2016 02:39
Bromoform	ND	0.0050	1	11/19/2016 02:39
Bromomethane	ND	0.0050	1	11/19/2016 02:39
2-Butanone (MEK)	ND	0.020	1	11/19/2016 02:39
t-Butyl alcohol (TBA)	ND	0.050	1	11/19/2016 02:39
n-Butyl benzene	ND	0.0050	1	11/19/2016 02:39
sec-Butyl benzene	ND	0.0050	1	11/19/2016 02:39
tert-Butyl benzene	ND	0.0050	1	11/19/2016 02:39
Carbon Disulfide	ND	0.0050	1	11/19/2016 02:39
Carbon Tetrachloride	ND	0.0050	1	11/19/2016 02:39
Chlorobenzene	ND	0.0050	1	11/19/2016 02:39
Chloroethane	ND	0.0050	1	11/19/2016 02:39
Chloroform	ND	0.0050	1	11/19/2016 02:39
Chloromethane	ND	0.0050	1	11/19/2016 02:39
2-Chlorotoluene	ND	0.0050	1	11/19/2016 02:39
4-Chlorotoluene	ND	0.0050	1	11/19/2016 02:39
Dibromochloromethane	ND	0.0050	1	11/19/2016 02:39
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/19/2016 02:39
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/19/2016 02:39
Dibromomethane	ND	0.0050	1	11/19/2016 02:39
1,2-Dichlorobenzene	ND	0.0050	1	11/19/2016 02:39
1,3-Dichlorobenzene	ND	0.0050	1	11/19/2016 02:39
1,4-Dichlorobenzene	ND	0.0050	1	11/19/2016 02:39
Dichlorodifluoromethane	ND	0.0050	1	11/19/2016 02:39
1,1-Dichloroethane	ND	0.0050	1	11/19/2016 02:39
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/19/2016 02:39
1,1-Dichloroethene	ND	0.0050	1	11/19/2016 02:39
cis-1,2-Dichloroethene	ND	0.0050	1	11/19/2016 02:39
trans-1,2-Dichloroethene	ND	0.0050	1	11/19/2016 02:39
1,2-Dichloropropane	ND	0.0050	1	11/19/2016 02:39
1,3-Dichloropropane	ND	0.0050	1	11/19/2016 02:39
2,2-Dichloropropane	ND	0.0050	1	11/19/2016 02:39

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	1611852-008A	Soil	11/16/2016 12:41	GC10	129954

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/19/2016 02:39
cis-1,3-Dichloropropene	ND	0.0050	1	11/19/2016 02:39
trans-1,3-Dichloropropene	ND	0.0050	1	11/19/2016 02:39
Diisopropyl ether (DIPE)	ND	0.0050	1	11/19/2016 02:39
Ethylbenzene	ND	0.0050	1	11/19/2016 02:39
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/19/2016 02:39
Freon 113	ND	0.0050	1	11/19/2016 02:39
Hexachlorobutadiene	ND	0.0050	1	11/19/2016 02:39
Hexachloroethane	ND	0.0050	1	11/19/2016 02:39
2-Hexanone	ND	0.0050	1	11/19/2016 02:39
Isopropylbenzene	ND	0.0050	1	11/19/2016 02:39
4-Isopropyl toluene	ND	0.0050	1	11/19/2016 02:39
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/19/2016 02:39
Methylene chloride	ND	0.0050	1	11/19/2016 02:39
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/19/2016 02:39
Naphthalene	ND	0.0050	1	11/19/2016 02:39
n-Propyl benzene	ND	0.0050	1	11/19/2016 02:39
Styrene	ND	0.0050	1	11/19/2016 02:39
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/19/2016 02:39
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/19/2016 02:39
Tetrachloroethene	ND	0.0050	1	11/19/2016 02:39
Toluene	ND	0.0050	1	11/19/2016 02:39
1,2,3-Trichlorobenzene	ND	0.0050	1	11/19/2016 02:39
1,2,4-Trichlorobenzene	ND	0.0050	1	11/19/2016 02:39
1,1,1-Trichloroethane	ND	0.0050	1	11/19/2016 02:39
1,1,2-Trichloroethane	ND	0.0050	1	11/19/2016 02:39
Trichloroethene	ND	0.0050	1	11/19/2016 02:39
Trichlorofluoromethane	ND	0.0050	1	11/19/2016 02:39
1,2,3-Trichloropropane	ND	0.0050	1	11/19/2016 02:39
1,2,4-Trimethylbenzene	ND	0.0050	1	11/19/2016 02:39
1,3,5-Trimethylbenzene	ND	0.0050	1	11/19/2016 02:39
Vinyl Chloride	ND	0.0050	1	11/19/2016 02:39
Xylenes, Total	ND	0.0050	1	11/19/2016 02:39

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	**1611852-008A**	**Soil**	**11/16/2016 12:41**	**GC10**	**129954**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	105	70-130		11/19/2016 02:39
Toluene-d8	111	70-130		11/19/2016 02:39
4-BFB	91	70-130		11/19/2016 02:39
Benzene-d6	99	60-140		11/19/2016 02:39
Ethylbenzene-d10	112	60-140		11/19/2016 02:39
1,2-DCB-d4	95	60-140		11/19/2016 02:39

Analyst(s): AK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-GW	1611852-009B	Water	11/16/2016 15:24	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/17/2016 22:34
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/17/2016 22:34
Benzene	ND	0.50	1	11/17/2016 22:34
Bromobenzene	ND	0.50	1	11/17/2016 22:34
Bromochloromethane	ND	0.50	1	11/17/2016 22:34
Bromodichloromethane	ND	0.50	1	11/17/2016 22:34
Bromoform	ND	0.50	1	11/17/2016 22:34
Bromomethane	ND	0.50	1	11/17/2016 22:34
2-Butanone (MEK)	ND	2.0	1	11/17/2016 22:34
t-Butyl alcohol (TBA)	ND	2.0	1	11/17/2016 22:34
n-Butyl benzene	ND	0.50	1	11/17/2016 22:34
sec-Butyl benzene	ND	0.50	1	11/17/2016 22:34
tert-Butyl benzene	ND	0.50	1	11/17/2016 22:34
Carbon Disulfide	ND	0.50	1	11/17/2016 22:34
Carbon Tetrachloride	ND	0.50	1	11/17/2016 22:34
Chlorobenzene	ND	0.50	1	11/17/2016 22:34
Chloroethane	ND	0.50	1	11/17/2016 22:34
Chloroform	ND	0.50	1	11/17/2016 22:34
Chloromethane	ND	0.50	1	11/17/2016 22:34
2-Chlorotoluene	ND	0.50	1	11/17/2016 22:34
4-Chlorotoluene	ND	0.50	1	11/17/2016 22:34
Dibromochloromethane	ND	0.50	1	11/17/2016 22:34
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/17/2016 22:34
1,2-Dibromoethane (EDB)	ND	0.50	1	11/17/2016 22:34
Dibromomethane	ND	0.50	1	11/17/2016 22:34
1,2-Dichlorobenzene	ND	0.50	1	11/17/2016 22:34
1,3-Dichlorobenzene	ND	0.50	1	11/17/2016 22:34
1,4-Dichlorobenzene	ND	0.50	1	11/17/2016 22:34
Dichlorodifluoromethane	ND	0.50	1	11/17/2016 22:34
1,1-Dichloroethane	ND	0.50	1	11/17/2016 22:34
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/17/2016 22:34
1,1-Dichloroethene	ND	0.50	1	11/17/2016 22:34
cis-1,2-Dichloroethene	ND	0.50	1	11/17/2016 22:34
trans-1,2-Dichloroethene	ND	0.50	1	11/17/2016 22:34
1,2-Dichloropropane	ND	0.50	1	11/17/2016 22:34
1,3-Dichloropropane	ND	0.50	1	11/17/2016 22:34
2,2-Dichloropropane	ND	0.50	1	11/17/2016 22:34

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-GW	1611852-009B	Water	11/16/2016 15:24	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/17/2016 22:34
cis-1,3-Dichloropropene	ND	0.50	1	11/17/2016 22:34
trans-1,3-Dichloropropene	ND	0.50	1	11/17/2016 22:34
Diisopropyl ether (DIPE)	ND	0.50	1	11/17/2016 22:34
Ethylbenzene	ND	0.50	1	11/17/2016 22:34
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/17/2016 22:34
Freon 113	ND	0.50	1	11/17/2016 22:34
Hexachlorobutadiene	ND	0.50	1	11/17/2016 22:34
Hexachloroethane	ND	0.50	1	11/17/2016 22:34
2-Hexanone	ND	0.50	1	11/17/2016 22:34
Isopropylbenzene	ND	0.50	1	11/17/2016 22:34
4-Isopropyl toluene	ND	0.50	1	11/17/2016 22:34
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/17/2016 22:34
Methylene chloride	ND	0.50	1	11/17/2016 22:34
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/17/2016 22:34
Naphthalene	ND	0.50	1	11/17/2016 22:34
n-Propyl benzene	ND	0.50	1	11/17/2016 22:34
Styrene	ND	0.50	1	11/17/2016 22:34
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/17/2016 22:34
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/17/2016 22:34
Tetrachloroethene	ND	0.50	1	11/17/2016 22:34
Toluene	ND	0.50	1	11/17/2016 22:34
1,2,3-Trichlorobenzene	ND	0.50	1	11/17/2016 22:34
1,2,4-Trichlorobenzene	ND	0.50	1	11/17/2016 22:34
1,1,1-Trichloroethane	ND	0.50	1	11/17/2016 22:34
1,1,2-Trichloroethane	ND	0.50	1	11/17/2016 22:34
Trichloroethene	ND	0.50	1	11/17/2016 22:34
Trichlorofluoromethane	ND	0.50	1	11/17/2016 22:34
1,2,3-Trichloropropane	ND	0.50	1	11/17/2016 22:34
1,2,4-Trimethylbenzene	ND	0.50	1	11/17/2016 22:34
1,3,5-Trimethylbenzene	ND	0.50	1	11/17/2016 22:34
Vinyl Chloride	ND	0.50	1	11/17/2016 22:34
Xylenes, Total	ND	0.50	1	11/17/2016 22:34

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-GW	**1611852-009B**	**Water**	**11/16/2016 15:24**	**GC18**	**130004**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	102	70-130		11/17/2016 22:34
Toluene-d8	96	70-130		11/17/2016 22:34
4-BFB	92	70-130		11/17/2016 22:34

Analyst(s): HK Analytical Comments: b1

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-GW	1611852-010B	Water	11/16/2016 09:12	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/17/2016 23:12
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/17/2016 23:12
Benzene	ND	0.50	1	11/17/2016 23:12
Bromobenzene	ND	0.50	1	11/17/2016 23:12
Bromochloromethane	ND	0.50	1	11/17/2016 23:12
Bromodichloromethane	ND	0.50	1	11/17/2016 23:12
Bromoform	ND	0.50	1	11/17/2016 23:12
Bromomethane	ND	0.50	1	11/17/2016 23:12
2-Butanone (MEK)	ND	2.0	1	11/17/2016 23:12
t-Butyl alcohol (TBA)	**2.0**	2.0	1	11/17/2016 23:12
n-Butyl benzene	ND	0.50	1	11/17/2016 23:12
sec-Butyl benzene	ND	0.50	1	11/17/2016 23:12
tert-Butyl benzene	ND	0.50	1	11/17/2016 23:12
Carbon Disulfide	ND	0.50	1	11/17/2016 23:12
Carbon Tetrachloride	ND	0.50	1	11/17/2016 23:12
Chlorobenzene	ND	0.50	1	11/17/2016 23:12
Chloroethane	ND	0.50	1	11/17/2016 23:12
Chloroform	ND	0.50	1	11/17/2016 23:12
Chloromethane	ND	0.50	1	11/17/2016 23:12
2-Chlorotoluene	ND	0.50	1	11/17/2016 23:12
4-Chlorotoluene	ND	0.50	1	11/17/2016 23:12
Dibromochloromethane	ND	0.50	1	11/17/2016 23:12
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/17/2016 23:12
1,2-Dibromoethane (EDB)	ND	0.50	1	11/17/2016 23:12
Dibromomethane	ND	0.50	1	11/17/2016 23:12
1,2-Dichlorobenzene	ND	0.50	1	11/17/2016 23:12
1,3-Dichlorobenzene	ND	0.50	1	11/17/2016 23:12
1,4-Dichlorobenzene	ND	0.50	1	11/17/2016 23:12
Dichlorodifluoromethane	ND	0.50	1	11/17/2016 23:12
1,1-Dichloroethane	ND	0.50	1	11/17/2016 23:12
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/17/2016 23:12
1,1-Dichloroethene	ND	0.50	1	11/17/2016 23:12
cis-1,2-Dichloroethene	ND	0.50	1	11/17/2016 23:12
trans-1,2-Dichloroethene	ND	0.50	1	11/17/2016 23:12
1,2-Dichloropropane	ND	0.50	1	11/17/2016 23:12
1,3-Dichloropropane	ND	0.50	1	11/17/2016 23:12
2,2-Dichloropropane	ND	0.50	1	11/17/2016 23:12

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-GW	1611852-010B	Water	11/16/2016 09:12	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/17/2016 23:12
cis-1,3-Dichloropropene	ND	0.50	1	11/17/2016 23:12
trans-1,3-Dichloropropene	ND	0.50	1	11/17/2016 23:12
Diisopropyl ether (DIPE)	ND	0.50	1	11/17/2016 23:12
Ethylbenzene	ND	0.50	1	11/17/2016 23:12
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/17/2016 23:12
Freon 113	ND	0.50	1	11/17/2016 23:12
Hexachlorobutadiene	ND	0.50	1	11/17/2016 23:12
Hexachloroethane	ND	0.50	1	11/17/2016 23:12
2-Hexanone	ND	0.50	1	11/17/2016 23:12
Isopropylbenzene	ND	0.50	1	11/17/2016 23:12
4-Isopropyl toluene	ND	0.50	1	11/17/2016 23:12
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/17/2016 23:12
Methylene chloride	ND	0.50	1	11/17/2016 23:12
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/17/2016 23:12
Naphthalene	ND	0.50	1	11/17/2016 23:12
n-Propyl benzene	ND	0.50	1	11/17/2016 23:12
Styrene	ND	0.50	1	11/17/2016 23:12
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/17/2016 23:12
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/17/2016 23:12
Tetrachloroethene	ND	0.50	1	11/17/2016 23:12
Toluene	ND	0.50	1	11/17/2016 23:12
1,2,3-Trichlorobenzene	ND	0.50	1	11/17/2016 23:12
1,2,4-Trichlorobenzene	ND	0.50	1	11/17/2016 23:12
1,1,1-Trichloroethane	ND	0.50	1	11/17/2016 23:12
1,1,2-Trichloroethane	ND	0.50	1	11/17/2016 23:12
Trichloroethene	ND	0.50	1	11/17/2016 23:12
Trichlorofluoromethane	ND	0.50	1	11/17/2016 23:12
1,2,3-Trichloropropane	ND	0.50	1	11/17/2016 23:12
1,2,4-Trimethylbenzene	ND	0.50	1	11/17/2016 23:12
1,3,5-Trimethylbenzene	ND	0.50	1	11/17/2016 23:12
Vinyl Chloride	ND	0.50	1	11/17/2016 23:12
Xylenes, Total	ND	0.50	1	11/17/2016 23:12

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-GW	**1611852-010B**	**Water**	**11/16/2016 09:12**	**GC18**	**130004**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	102	70-130		11/17/2016 23:12
Toluene-d8	97	70-130		11/17/2016 23:12
4-BFB	91	70-130		11/17/2016 23:12

Analyst(s): HK Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-GW	1611852-011B	Water	11/16/2016 10:46	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/17/2016 23:51
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/17/2016 23:51
Benzene	ND	0.50	1	11/17/2016 23:51
Bromobenzene	ND	0.50	1	11/17/2016 23:51
Bromochloromethane	ND	0.50	1	11/17/2016 23:51
Bromodichloromethane	ND	0.50	1	11/17/2016 23:51
Bromoform	ND	0.50	1	11/17/2016 23:51
Bromomethane	ND	0.50	1	11/17/2016 23:51
2-Butanone (MEK)	ND	2.0	1	11/17/2016 23:51
t-Butyl alcohol (TBA)	ND	2.0	1	11/17/2016 23:51
n-Butyl benzene	ND	0.50	1	11/17/2016 23:51
sec-Butyl benzene	ND	0.50	1	11/17/2016 23:51
tert-Butyl benzene	ND	0.50	1	11/17/2016 23:51
Carbon Disulfide	ND	0.50	1	11/17/2016 23:51
Carbon Tetrachloride	ND	0.50	1	11/17/2016 23:51
Chlorobenzene	ND	0.50	1	11/17/2016 23:51
Chloroethane	ND	0.50	1	11/17/2016 23:51
Chloroform	ND	0.50	1	11/17/2016 23:51
Chloromethane	ND	0.50	1	11/17/2016 23:51
2-Chlorotoluene	ND	0.50	1	11/17/2016 23:51
4-Chlorotoluene	ND	0.50	1	11/17/2016 23:51
Dibromochloromethane	ND	0.50	1	11/17/2016 23:51
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/17/2016 23:51
1,2-Dibromoethane (EDB)	ND	0.50	1	11/17/2016 23:51
Dibromomethane	ND	0.50	1	11/17/2016 23:51
1,2-Dichlorobenzene	ND	0.50	1	11/17/2016 23:51
1,3-Dichlorobenzene	ND	0.50	1	11/17/2016 23:51
1,4-Dichlorobenzene	ND	0.50	1	11/17/2016 23:51
Dichlorodifluoromethane	ND	0.50	1	11/17/2016 23:51
1,1-Dichloroethane	ND	0.50	1	11/17/2016 23:51
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/17/2016 23:51
1,1-Dichloroethene	ND	0.50	1	11/17/2016 23:51
cis-1,2-Dichloroethene	ND	0.50	1	11/17/2016 23:51
trans-1,2-Dichloroethene	ND	0.50	1	11/17/2016 23:51
1,2-Dichloropropane	ND	0.50	1	11/17/2016 23:51
1,3-Dichloropropane	ND	0.50	1	11/17/2016 23:51
2,2-Dichloropropane	ND	0.50	1	11/17/2016 23:51

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-GW	1611852-011B	Water	11/16/2016 10:46	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/17/2016 23:51
cis-1,3-Dichloropropene	ND	0.50	1	11/17/2016 23:51
trans-1,3-Dichloropropene	ND	0.50	1	11/17/2016 23:51
Diisopropyl ether (DIPE)	ND	0.50	1	11/17/2016 23:51
Ethylbenzene	ND	0.50	1	11/17/2016 23:51
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/17/2016 23:51
Freon 113	ND	0.50	1	11/17/2016 23:51
Hexachlorobutadiene	ND	0.50	1	11/17/2016 23:51
Hexachloroethane	ND	0.50	1	11/17/2016 23:51
2-Hexanone	ND	0.50	1	11/17/2016 23:51
Isopropylbenzene	ND	0.50	1	11/17/2016 23:51
4-Isopropyl toluene	ND	0.50	1	11/17/2016 23:51
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/17/2016 23:51
Methylene chloride	ND	0.50	1	11/17/2016 23:51
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/17/2016 23:51
Naphthalene	ND	0.50	1	11/17/2016 23:51
n-Propyl benzene	ND	0.50	1	11/17/2016 23:51
Styrene	ND	0.50	1	11/17/2016 23:51
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/17/2016 23:51
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/17/2016 23:51
Tetrachloroethene	**0.68**	0.50	1	11/17/2016 23:51
Toluene	ND	0.50	1	11/17/2016 23:51
1,2,3-Trichlorobenzene	ND	0.50	1	11/17/2016 23:51
1,2,4-Trichlorobenzene	ND	0.50	1	11/17/2016 23:51
1,1,1-Trichloroethane	ND	0.50	1	11/17/2016 23:51
1,1,2-Trichloroethane	ND	0.50	1	11/17/2016 23:51
Trichloroethene	ND	0.50	1	11/17/2016 23:51
Trichlorofluoromethane	ND	0.50	1	11/17/2016 23:51
1,2,3-Trichloropropane	ND	0.50	1	11/17/2016 23:51
1,2,4-Trimethylbenzene	ND	0.50	1	11/17/2016 23:51
1,3,5-Trimethylbenzene	ND	0.50	1	11/17/2016 23:51
Vinyl Chloride	ND	0.50	1	11/17/2016 23:51
Xylenes, Total	ND	0.50	1	11/17/2016 23:51

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-GW	**1611852-011B**	**Water**	**11/16/2016 10:46**	**GC18**	**130004**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	103	70-130		11/17/2016 23:51
Toluene-d8	96	70-130		11/17/2016 23:51
4-BFB	91	70-130		11/17/2016 23:51

Analyst(s): HK Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	1611852-012B	Water	11/16/2016 13:37	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/18/2016 00:30
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/18/2016 00:30
Benzene	ND	0.50	1	11/18/2016 00:30
Bromobenzene	ND	0.50	1	11/18/2016 00:30
Bromochloromethane	ND	0.50	1	11/18/2016 00:30
Bromodichloromethane	ND	0.50	1	11/18/2016 00:30
Bromoform	ND	0.50	1	11/18/2016 00:30
Bromomethane	ND	0.50	1	11/18/2016 00:30
2-Butanone (MEK)	ND	2.0	1	11/18/2016 00:30
t-Butyl alcohol (TBA)	ND	2.0	1	11/18/2016 00:30
n-Butyl benzene	ND	0.50	1	11/18/2016 00:30
sec-Butyl benzene	ND	0.50	1	11/18/2016 00:30
tert-Butyl benzene	ND	0.50	1	11/18/2016 00:30
Carbon Disulfide	ND	0.50	1	11/18/2016 00:30
Carbon Tetrachloride	ND	0.50	1	11/18/2016 00:30
Chlorobenzene	ND	0.50	1	11/18/2016 00:30
Chloroethane	ND	0.50	1	11/18/2016 00:30
Chloroform	ND	0.50	1	11/18/2016 00:30
Chloromethane	ND	0.50	1	11/18/2016 00:30
2-Chlorotoluene	ND	0.50	1	11/18/2016 00:30
4-Chlorotoluene	ND	0.50	1	11/18/2016 00:30
Dibromochloromethane	ND	0.50	1	11/18/2016 00:30
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/18/2016 00:30
1,2-Dibromoethane (EDB)	ND	0.50	1	11/18/2016 00:30
Dibromomethane	ND	0.50	1	11/18/2016 00:30
1,2-Dichlorobenzene	ND	0.50	1	11/18/2016 00:30
1,3-Dichlorobenzene	ND	0.50	1	11/18/2016 00:30
1,4-Dichlorobenzene	ND	0.50	1	11/18/2016 00:30
Dichlorodifluoromethane	ND	0.50	1	11/18/2016 00:30
1,1-Dichloroethane	ND	0.50	1	11/18/2016 00:30
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/18/2016 00:30
1,1-Dichloroethene	ND	0.50	1	11/18/2016 00:30
cis-1,2-Dichloroethene	ND	0.50	1	11/18/2016 00:30
trans-1,2-Dichloroethene	ND	0.50	1	11/18/2016 00:30
1,2-Dichloropropane	ND	0.50	1	11/18/2016 00:30
1,3-Dichloropropane	ND	0.50	1	11/18/2016 00:30
2,2-Dichloropropane	ND	0.50	1	11/18/2016 00:30

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	1611852-012B	Water	11/16/2016 13:37	GC18	130004

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/18/2016 00:30
cis-1,3-Dichloropropene	ND	0.50	1	11/18/2016 00:30
trans-1,3-Dichloropropene	ND	0.50	1	11/18/2016 00:30
Diisopropyl ether (DIPE)	ND	0.50	1	11/18/2016 00:30
Ethylbenzene	ND	0.50	1	11/18/2016 00:30
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/18/2016 00:30
Freon 113	ND	0.50	1	11/18/2016 00:30
Hexachlorobutadiene	ND	0.50	1	11/18/2016 00:30
Hexachloroethane	ND	0.50	1	11/18/2016 00:30
2-Hexanone	ND	0.50	1	11/18/2016 00:30
Isopropylbenzene	ND	0.50	1	11/18/2016 00:30
4-Isopropyl toluene	ND	0.50	1	11/18/2016 00:30
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/18/2016 00:30
Methylene chloride	ND	0.50	1	11/18/2016 00:30
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/18/2016 00:30
Naphthalene	ND	0.50	1	11/18/2016 00:30
n-Propyl benzene	ND	0.50	1	11/18/2016 00:30
Styrene	ND	0.50	1	11/18/2016 00:30
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/18/2016 00:30
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/18/2016 00:30
Tetrachloroethene	ND	0.50	1	11/18/2016 00:30
Toluene	ND	0.50	1	11/18/2016 00:30
1,2,3-Trichlorobenzene	ND	0.50	1	11/18/2016 00:30
1,2,4-Trichlorobenzene	ND	0.50	1	11/18/2016 00:30
1,1,1-Trichloroethane	ND	0.50	1	11/18/2016 00:30
1,1,2-Trichloroethane	ND	0.50	1	11/18/2016 00:30
Trichloroethene	ND	0.50	1	11/18/2016 00:30
Trichlorofluoromethane	ND	0.50	1	11/18/2016 00:30
1,2,3-Trichloropropane	ND	0.50	1	11/18/2016 00:30
1,2,4-Trimethylbenzene	ND	0.50	1	11/18/2016 00:30
1,3,5-Trimethylbenzene	ND	0.50	1	11/18/2016 00:30
Vinyl Chloride	ND	0.50	1	11/18/2016 00:30
Xylenes, Total	ND	0.50	1	11/18/2016 00:30

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/18/16	**Analytical Method:**	SW8260B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	**1611852-012B**	**Water**	**11/16/2016 13:37**	**GC18**	**130004**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	103	70-130		11/18/2016 00:30
Toluene-d8	96	70-130		11/18/2016 00:30
4-BFB	90	70-130		11/18/2016 00:30

Analyst(s): HK Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	1611852-001A	Soil	11/16/2016 14:30	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/18/2016 20:27
Acenaphthylene	ND	0.0050	1	11/18/2016 20:27
Anthracene	ND	0.0050	1	11/18/2016 20:27
Benzo (a) anthracene	ND	0.0050	1	11/18/2016 20:27
Benzo (a) pyrene	ND	0.0050	1	11/18/2016 20:27
Benzo (b) fluoranthene	ND	0.0050	1	11/18/2016 20:27
Benzo (g,h,i) perylene	ND	0.0050	1	11/18/2016 20:27
Benzo (k) fluoranthene	ND	0.0050	1	11/18/2016 20:27
Chrysene	ND	0.0050	1	11/18/2016 20:27
Dibenzo (a,h) anthracene	ND	0.0050	1	11/18/2016 20:27
Fluoranthene	ND	0.0050	1	11/18/2016 20:27
Fluorene	ND	0.0050	1	11/18/2016 20:27
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/18/2016 20:27
1-Methylnaphthalene	ND	0.0050	1	11/18/2016 20:27
2-Methylnaphthalene	ND	0.0050	1	11/18/2016 20:27
Naphthalene	ND	0.0050	1	11/18/2016 20:27
Phenanthrene	ND	0.0050	1	11/18/2016 20:27
Pyrene	ND	0.0050	1	11/18/2016 20:27

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	88	70-130	11/18/2016 20:27
4,4-Dichlorobiphenyl	87	70-130	11/18/2016 20:27

Analyst(s): JC

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	1611852-002A	Soil	11/16/2016 14:33	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/18/2016 22:45
Acenaphthylene	ND	0.0050	1	11/18/2016 22:45
Anthracene	ND	0.0050	1	11/18/2016 22:45
Benzo (a) anthracene	ND	0.0050	1	11/18/2016 22:45
Benzo (a) pyrene	ND	0.0050	1	11/18/2016 22:45
Benzo (b) fluoranthene	ND	0.0050	1	11/18/2016 22:45
Benzo (g,h,i) perylene	ND	0.0050	1	11/18/2016 22:45
Benzo (k) fluoranthene	ND	0.0050	1	11/18/2016 22:45
Chrysene	ND	0.0050	1	11/18/2016 22:45
Dibenzo (a,h) anthracene	ND	0.0050	1	11/18/2016 22:45
Fluoranthene	ND	0.0050	1	11/18/2016 22:45
Fluorene	ND	0.0050	1	11/18/2016 22:45
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/18/2016 22:45
1-Methylnaphthalene	ND	0.0050	1	11/18/2016 22:45
2-Methylnaphthalene	ND	0.0050	1	11/18/2016 22:45
Naphthalene	ND	0.0050	1	11/18/2016 22:45
Phenanthrene	ND	0.0050	1	11/18/2016 22:45
Pyrene	ND	0.0050	1	11/18/2016 22:45

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	92	70-130	11/18/2016 22:45
4,4-Dichlorobiphenyl	91	70-130	11/18/2016 22:45

Analyst(s): JC

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	1611852-003A	Soil	11/16/2016 07:40	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.10	20	11/21/2016 11:55
Acenaphthylene	ND	0.10	20	11/21/2016 11:55
Anthracene	ND	0.10	20	11/21/2016 11:55
Benzo (a) anthracene	**0.10**	0.10	20	11/21/2016 11:55
Benzo (a) pyrene	ND	0.10	20	11/21/2016 11:55
Benzo (b) fluoranthene	ND	0.10	20	11/21/2016 11:55
Benzo (g,h,i) perylene	ND	0.10	20	11/21/2016 11:55
Benzo (k) fluoranthene	ND	0.10	20	11/21/2016 11:55
Chrysene	ND	0.10	20	11/21/2016 11:55
Dibenzo (a,h) anthracene	ND	0.10	20	11/21/2016 11:55
Fluoranthene	**0.31**	0.10	20	11/21/2016 11:55
Fluorene	ND	0.10	20	11/21/2016 11:55
Indeno (1,2,3-cd) pyrene	ND	0.10	20	11/21/2016 11:55
1-Methylnaphthalene	ND	0.10	20	11/21/2016 11:55
2-Methylnaphthalene	**0.24**	0.10	20	11/21/2016 11:55
Naphthalene	ND	0.10	20	11/21/2016 11:55
Phenanthrene	**0.58**	0.10	20	11/21/2016 11:55
Pyrene	**0.26**	0.10	20	11/21/2016 11:55

Surrogates	REC (%)	Qualifiers	Limits	
Decafluorobiphenyl	67	S	70-130	11/21/2016 11:55
4,4-Dichlorobiphenyl	45	S	70-130	11/21/2016 11:55

Analyst(s): JC Analytical Comments: C1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	1611852-004A	Soil	11/16/2016 07:44	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/19/2016 00:17
Acenaphthylene	ND	0.0050	1	11/19/2016 00:17
Anthracene	ND	0.0050	1	11/19/2016 00:17
Benzo (a) anthracene	ND	0.0050	1	11/19/2016 00:17
Benzo (a) pyrene	ND	0.0050	1	11/19/2016 00:17
Benzo (b) fluoranthene	ND	0.0050	1	11/19/2016 00:17
Benzo (g,h,i) perylene	ND	0.0050	1	11/19/2016 00:17
Benzo (k) fluoranthene	ND	0.0050	1	11/19/2016 00:17
Chrysene	ND	0.0050	1	11/19/2016 00:17
Dibenzo (a,h) anthracene	ND	0.0050	1	11/19/2016 00:17
Fluoranthene	ND	0.0050	1	11/19/2016 00:17
Fluorene	ND	0.0050	1	11/19/2016 00:17
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/19/2016 00:17
1-Methylnaphthalene	ND	0.0050	1	11/19/2016 00:17
2-Methylnaphthalene	ND	0.0050	1	11/19/2016 00:17
Naphthalene	ND	0.0050	1	11/19/2016 00:17
Phenanthrene	ND	0.0050	1	11/19/2016 00:17
Pyrene	ND	0.0050	1	11/19/2016 00:17

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	90	70-130	11/19/2016 00:17
4,4-Dichlorobiphenyl	90	70-130	11/19/2016 00:17

Analyst(s): JC

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	1611852-005A	Soil	11/16/2016 09:46	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/19/2016 01:03
Acenaphthylene	ND	0.0050	1	11/19/2016 01:03
Anthracene	ND	0.0050	1	11/19/2016 01:03
Benzo (a) anthracene	ND	0.0050	1	11/19/2016 01:03
Benzo (a) pyrene	ND	0.0050	1	11/19/2016 01:03
Benzo (b) fluoranthene	ND	0.0050	1	11/19/2016 01:03
Benzo (g,h,i) perylene	ND	0.0050	1	11/19/2016 01:03
Benzo (k) fluoranthene	ND	0.0050	1	11/19/2016 01:03
Chrysene	ND	0.0050	1	11/19/2016 01:03
Dibenzo (a,h) anthracene	ND	0.0050	1	11/19/2016 01:03
Fluoranthene	ND	0.0050	1	11/19/2016 01:03
Fluorene	ND	0.0050	1	11/19/2016 01:03
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/19/2016 01:03
1-Methylnaphthalene	ND	0.0050	1	11/19/2016 01:03
2-Methylnaphthalene	ND	0.0050	1	11/19/2016 01:03
Naphthalene	ND	0.0050	1	11/19/2016 01:03
Phenanthrene	ND	0.0050	1	11/19/2016 01:03
Pyrene	ND	0.0050	1	11/19/2016 01:03

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	92	70-130	11/19/2016 01:03
4,4-Dichlorobiphenyl	89	70-130	11/19/2016 01:03

Analyst(s): JC

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	1611852-006A	Soil	11/16/2016 09:52	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/19/2016 01:49
Acenaphthylene	ND	0.0050	1	11/19/2016 01:49
Anthracene	ND	0.0050	1	11/19/2016 01:49
Benzo (a) anthracene	ND	0.0050	1	11/19/2016 01:49
Benzo (a) pyrene	ND	0.0050	1	11/19/2016 01:49
Benzo (b) fluoranthene	ND	0.0050	1	11/19/2016 01:49
Benzo (g,h,i) perylene	ND	0.0050	1	11/19/2016 01:49
Benzo (k) fluoranthene	ND	0.0050	1	11/19/2016 01:49
Chrysene	ND	0.0050	1	11/19/2016 01:49
Dibenzo (a,h) anthracene	ND	0.0050	1	11/19/2016 01:49
Fluoranthene	ND	0.0050	1	11/19/2016 01:49
Fluorene	ND	0.0050	1	11/19/2016 01:49
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/19/2016 01:49
1-Methylnaphthalene	ND	0.0050	1	11/19/2016 01:49
2-Methylnaphthalene	ND	0.0050	1	11/19/2016 01:49
Naphthalene	ND	0.0050	1	11/19/2016 01:49
Phenanthrene	ND	0.0050	1	11/19/2016 01:49
Pyrene	ND	0.0050	1	11/19/2016 01:49

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	87	70-130	11/19/2016 01:49
4,4-Dichlorobiphenyl	87	70-130	11/19/2016 01:49

Analyst(s): JC

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	1611852-007A	Soil	11/16/2016 12:36	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/19/2016 03:22
Acenaphthylene	ND	0.0050	1	11/19/2016 03:22
Anthracene	ND	0.0050	1	11/19/2016 03:22
Benzo (a) anthracene	**0.0078**	0.0050	1	11/19/2016 03:22
Benzo (a) pyrene	**0.0061**	0.0050	1	11/19/2016 03:22
Benzo (b) fluoranthene	ND	0.0050	1	11/19/2016 03:22
Benzo (g,h,i) perylene	ND	0.0050	1	11/19/2016 03:22
Benzo (k) fluoranthene	ND	0.0050	1	11/19/2016 03:22
Chrysene	**0.0081**	0.0050	1	11/19/2016 03:22
Dibenzo (a,h) anthracene	ND	0.0050	1	11/19/2016 03:22
Fluoranthene	**0.011**	0.0050	1	11/19/2016 03:22
Fluorene	ND	0.0050	1	11/19/2016 03:22
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/19/2016 03:22
1-Methylnaphthalene	ND	0.0050	1	11/19/2016 03:22
2-Methylnaphthalene	ND	0.0050	1	11/19/2016 03:22
Naphthalene	ND	0.0050	1	11/19/2016 03:22
Phenanthrene	**0.0056**	0.0050	1	11/19/2016 03:22
Pyrene	**0.013**	0.0050	1	11/19/2016 03:22

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	81	70-130	11/19/2016 03:22
4,4-Dichlorobiphenyl	90	70-130	11/19/2016 03:22

Analyst(s): JC

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	1611852-008A	Soil	11/16/2016 12:41	HPLC4	130039

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0050	1	11/19/2016 04:08
Acenaphthylene	ND	0.0050	1	11/19/2016 04:08
Anthracene	ND	0.0050	1	11/19/2016 04:08
Benzo (a) anthracene	ND	0.0050	1	11/19/2016 04:08
Benzo (a) pyrene	ND	0.0050	1	11/19/2016 04:08
Benzo (b) fluoranthene	ND	0.0050	1	11/19/2016 04:08
Benzo (g,h,i) perylene	ND	0.0050	1	11/19/2016 04:08
Benzo (k) fluoranthene	ND	0.0050	1	11/19/2016 04:08
Chrysene	ND	0.0050	1	11/19/2016 04:08
Dibenzo (a,h) anthracene	ND	0.0050	1	11/19/2016 04:08
Fluoranthene	ND	0.0050	1	11/19/2016 04:08
Fluorene	ND	0.0050	1	11/19/2016 04:08
Indeno (1,2,3-cd) pyrene	ND	0.0050	1	11/19/2016 04:08
1-Methylnaphthalene	ND	0.0050	1	11/19/2016 04:08
2-Methylnaphthalene	ND	0.0050	1	11/19/2016 04:08
Naphthalene	ND	0.0050	1	11/19/2016 04:08
Phenanthrene	ND	0.0050	1	11/19/2016 04:08
Pyrene	ND	0.0050	1	11/19/2016 04:08

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	86	70-130	11/19/2016 04:08
4,4-Dichlorobiphenyl	88	70-130	11/19/2016 04:08

Analyst(s): JC

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-GW	1611852-009C	Water	11/16/2016 15:24	HPLC4	129945

Analytes	Result	RL	DF	Date Analyzed
Acenaphthylene	ND	0.0500	1	11/18/2016 15:05
Anthracene	ND	0.0500	1	11/18/2016 15:05
Benzo (a) anthracene	ND	0.0250	1	11/18/2016 15:05
Benzo (a) pyrene	ND	0.0500	1	11/18/2016 15:05
Benzo (b) fluoranthene	ND	0.0250	1	11/18/2016 15:05
Benzo (k) fluoranthene	ND	0.0250	1	11/18/2016 15:05
Benzo (g,h,i) perylene	ND	0.0500	1	11/18/2016 15:05
Chrysene	ND	0.0500	1	11/18/2016 15:05
Dibenzo (a,h) anthracene	ND	0.0500	1	11/18/2016 15:05
Fluoranthene	ND	0.0500	1	11/18/2016 15:05
Fluorene	ND	0.0500	1	11/18/2016 15:05
Indeno (1,2,3-cd) pyrene	ND	0.0250	1	11/18/2016 15:05
1-Methylnaphthalene	ND	0.0500	1	11/18/2016 15:05
2-Methylnaphthalene	ND	0.0500	1	11/18/2016 15:05
Naphthalene	ND	0.0500	1	11/18/2016 15:05
Phenanthrene	ND	0.0500	1	11/18/2016 15:05
Pyrene	ND	0.0500	1	11/18/2016 15:05

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	87	70-130	11/18/2016 15:05
4,4-Dichlorobiphenyl	84	70-130	11/18/2016 15:05

Analyst(s): JC Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-GW	**1611852-010C**	**Water**	**11/16/2016 09:12**	**HPLC4**	**129945**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthylene	**0.607**	0.0500	1	11/18/2016 15:51
Anthracene	ND	0.0500	1	11/18/2016 15:51
Benzo (a) anthracene	ND	0.0250	1	11/18/2016 15:51
Benzo (a) pyrene	ND	0.0500	1	11/18/2016 15:51
Benzo (b) fluoranthene	ND	0.0250	1	11/18/2016 15:51
Benzo (k) fluoranthene	ND	0.0250	1	11/18/2016 15:51
Benzo (g,h,i) perylene	ND	0.0500	1	11/18/2016 15:51
Chrysene	ND	0.0500	1	11/18/2016 15:51
Dibenzo (a,h) anthracene	ND	0.0500	1	11/18/2016 15:51
Fluoranthene	ND	0.0500	1	11/18/2016 15:51
Fluorene	ND	0.0500	1	11/18/2016 15:51
Indeno (1,2,3-cd) pyrene	ND	0.0250	1	11/18/2016 15:51
1-Methylnaphthalene	ND	0.0500	1	11/18/2016 15:51
2-Methylnaphthalene	ND	0.0500	1	11/18/2016 15:51
Naphthalene	ND	0.0500	1	11/18/2016 15:51
Phenanthrene	ND	0.0500	1	11/18/2016 15:51
Pyrene	ND	0.0500	1	11/18/2016 15:51

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	93	70-130	11/18/2016 15:51
4,4-Dichlorobiphenyl	76	70-130	11/18/2016 15:51

Analyst(s): JC Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-GW	**1611852-011C**	**Water**	**11/16/2016 10:46**	**HPLC4**	**129945**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthylene	**0.161**	0.0500	1	11/18/2016 16:37
Anthracene	ND	0.0500	1	11/18/2016 16:37
Benzo (a) anthracene	ND	0.0250	1	11/18/2016 16:37
Benzo (a) pyrene	ND	0.0500	1	11/18/2016 16:37
Benzo (b) fluoranthene	ND	0.0250	1	11/18/2016 16:37
Benzo (k) fluoranthene	ND	0.0250	1	11/18/2016 16:37
Benzo (g,h,i) perylene	ND	0.0500	1	11/18/2016 16:37
Chrysene	ND	0.0500	1	11/18/2016 16:37
Dibenzo (a,h) anthracene	ND	0.0500	1	11/18/2016 16:37
Fluoranthene	ND	0.0500	1	11/18/2016 16:37
Fluorene	ND	0.0500	1	11/18/2016 16:37
Indeno (1,2,3-cd) pyrene	ND	0.0250	1	11/18/2016 16:37
1-Methylnaphthalene	ND	0.0500	1	11/18/2016 16:37
2-Methylnaphthalene	ND	0.0500	1	11/18/2016 16:37
Naphthalene	ND	0.0500	1	11/18/2016 16:37
Phenanthrene	ND	0.0500	1	11/18/2016 16:37
Pyrene	ND	0.0500	1	11/18/2016 16:37

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	98	70-130	11/18/2016 16:37
4,4-Dichlorobiphenyl	98	70-130	11/18/2016 16:37

Analyst(s): JC Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/18/16	**Analytical Method:**	SW8310
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	**1611852-012C**	**Water**	**11/16/2016 13:37**	**HPLC4**	**129945**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthylene	**0.133**	0.0500	1	11/18/2016 17:23
Anthracene	ND	0.0500	1	11/18/2016 17:23
Benzo (a) anthracene	ND	0.0250	1	11/18/2016 17:23
Benzo (a) pyrene	ND	0.0500	1	11/18/2016 17:23
Benzo (b) fluoranthene	ND	0.0250	1	11/18/2016 17:23
Benzo (k) fluoranthene	ND	0.0250	1	11/18/2016 17:23
Benzo (g,h,i) perylene	ND	0.0500	1	11/18/2016 17:23
Chrysene	ND	0.0500	1	11/18/2016 17:23
Dibenzo (a,h) anthracene	ND	0.0500	1	11/18/2016 17:23
Fluoranthene	ND	0.0500	1	11/18/2016 17:23
Fluorene	ND	0.0500	1	11/18/2016 17:23
Indeno (1,2,3-cd) pyrene	ND	0.0250	1	11/18/2016 17:23
1-Methylnaphthalene	ND	0.0500	1	11/18/2016 17:23
2-Methylnaphthalene	ND	0.0500	1	11/18/2016 17:23
Naphthalene	ND	0.0500	1	11/18/2016 17:23
Phenanthrene	ND	0.0500	1	11/18/2016 17:23
Pyrene	ND	0.0500	1	11/18/2016 17:23

Surrogates	REC (%)	Limits	
Decafluorobiphenyl	100	70-130	11/18/2016 17:23
4,4-Dichlorobiphenyl	91	70-130	11/18/2016 17:23

Analyst(s): JC Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/22/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	1611852-001A	Soil	11/16/2016 14:30	GC19	129953

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/18/2016 15:29
MTBE	---	0.050	1	11/18/2016 15:29
Benzene	---	0.0050	1	11/18/2016 15:29
Toluene	---	0.0050	1	11/18/2016 15:29
Ethylbenzene	---	0.0050	1	11/18/2016 15:29
Xylenes	---	0.015	1	11/18/2016 15:29

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	69-117	11/18/2016 15:29

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	1611852-002A	Soil	11/16/2016 14:33	GC19	129953

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/18/2016 18:02
MTBE	---	0.050	1	11/18/2016 18:02
Benzene	---	0.0050	1	11/18/2016 18:02
Toluene	---	0.0050	1	11/18/2016 18:02
Ethylbenzene	---	0.0050	1	11/18/2016 18:02
Xylenes	---	0.015	1	11/18/2016 18:02

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	69-117	11/18/2016 18:02

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/22/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	1611852-003A	Soil	11/16/2016 07:40	GC19	130105

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/22/2016 11:34
MTBE	---	0.050	1	11/22/2016 11:34
Benzene	---	0.0050	1	11/22/2016 11:34
Toluene	---	0.0050	1	11/22/2016 11:34
Ethylbenzene	---	0.0050	1	11/22/2016 11:34
Xylenes	---	0.015	1	11/22/2016 11:34

Surrogates	REC (%)	Limits	
2-Fluorotoluene	103	69-117	11/22/2016 11:34

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	1611852-004A	Soil	11/16/2016 07:44	GC19	129953

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/18/2016 17:01
MTBE	---	0.050	1	11/18/2016 17:01
Benzene	---	0.0050	1	11/18/2016 17:01
Toluene	---	0.0050	1	11/18/2016 17:01
Ethylbenzene	---	0.0050	1	11/18/2016 17:01
Xylenes	---	0.015	1	11/18/2016 17:01

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	69-117	11/18/2016 17:01

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/22/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	1611852-005A	Soil	11/16/2016 09:46	GC19	129953

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/18/2016 17:32
MTBE	---	0.050	1	11/18/2016 17:32
Benzene	---	0.0050	1	11/18/2016 17:32
Toluene	---	0.0050	1	11/18/2016 17:32
Ethylbenzene	---	0.0050	1	11/18/2016 17:32
Xylenes	---	0.015	1	11/18/2016 17:32

Surrogates	REC (%)	Limits	
2-Fluorotoluene	105	69-117	11/18/2016 17:32

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	1611852-006A	Soil	11/16/2016 09:52	GC19	129953

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/18/2016 18:33
MTBE	---	0.050	1	11/18/2016 18:33
Benzene	---	0.0050	1	11/18/2016 18:33
Toluene	---	0.0050	1	11/18/2016 18:33
Ethylbenzene	---	0.0050	1	11/18/2016 18:33
Xylenes	---	0.015	1	11/18/2016 18:33

Surrogates	REC (%)	Limits	
2-Fluorotoluene	97	69-117	11/18/2016 18:33

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/17/16-11/22/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	1611852-007A	Soil	11/16/2016 12:36	GC19	130219

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/22/2016 22:39
MTBE	---	0.050	1	11/22/2016 22:39
Benzene	---	0.0050	1	11/22/2016 22:39
Toluene	---	0.0050	1	11/22/2016 22:39
Ethylbenzene	---	0.0050	1	11/22/2016 22:39
Xylenes	---	0.015	1	11/22/2016 22:39

Surrogates	REC (%)	Limits	
2-Fluorotoluene	102	69-117	11/22/2016 22:39

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	1611852-008A	Soil	11/16/2016 12:41	GC19	130219

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/22/2016 23:10
MTBE	---	0.050	1	11/22/2016 23:10
Benzene	---	0.0050	1	11/22/2016 23:10
Toluene	---	0.0050	1	11/22/2016 23:10
Ethylbenzene	---	0.0050	1	11/22/2016 23:10
Xylenes	---	0.015	1	11/22/2016 23:10

Surrogates	REC (%)	Limits	
2-Fluorotoluene	106	69-117	11/22/2016 23:10

Analyst(s): IA

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/18/16-11/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-GW	1611852-009A	Water	11/16/2016 15:24	GC3	130033

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	11/18/2016 12:44
MTBE	---	5.0	1	11/18/2016 12:44
Benzene	---	0.50	1	11/18/2016 12:44
Toluene	---	0.50	1	11/18/2016 12:44
Ethylbenzene	---	0.50	1	11/18/2016 12:44
Xylenes	---	1.5	1	11/18/2016 12:44

Surrogates	REC (%)	Limits	
aaa-TFT	107	89-115	11/18/2016 12:44

Analyst(s): HD Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-GW	1611852-010A	Water	11/16/2016 09:12	GC3	130033

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	11/18/2016 13:14
MTBE	---	5.0	1	11/18/2016 13:14
Benzene	---	0.50	1	11/18/2016 13:14
Toluene	---	0.50	1	11/18/2016 13:14
Ethylbenzene	---	0.50	1	11/18/2016 13:14
Xylenes	---	1.5	1	11/18/2016 13:14

Surrogates	REC (%)	Limits	
aaa-TFT	100	89-115	11/18/2016 13:14

Analyst(s): HD Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW5030B
Date Prepared:	11/18/16-11/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-GW	1611852-011A	Water	11/16/2016 10:46	GC3	130095

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	11/20/2016 00:45
MTBE	---	5.0	1	11/20/2016 00:45
Benzene	---	0.50	1	11/20/2016 00:45
Toluene	---	0.50	1	11/20/2016 00:45
Ethylbenzene	---	0.50	1	11/20/2016 00:45
Xylenes	---	1.5	1	11/20/2016 00:45

Surrogates	REC (%)	Limits	
aaa-TFT	102	89-115	11/20/2016 00:45

Analyst(s): LT Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	1611852-012A	Water	11/16/2016 13:37	GC3	130095

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	11/20/2016 01:16
MTBE	---	5.0	1	11/20/2016 01:16
Benzene	---	0.50	1	11/20/2016 01:16
Toluene	---	0.50	1	11/20/2016 01:16
Ethylbenzene	---	0.50	1	11/20/2016 01:16
Xylenes	---	1.5	1	11/20/2016 01:16

Surrogates	REC (%)	Limits	
aaa-TFT	104	89-115	11/20/2016 01:16

Analyst(s): LT Analytical Comments: b1

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3050B
Date Prepared:	11/17/16	**Analytical Method:**	SW6020
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	1611852-001A	Soil	11/16/2016 14:30	ICP-MS3	129955

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:05
Chromium	**38**	0.50	1	11/18/2016 23:05
Lead	**3.0**	0.50	1	11/18/2016 23:05
Nickel	**19**	0.50	1	11/18/2016 23:05
Zinc	**18**	5.0	1	11/18/2016 23:05

Surrogates	REC (%)	Limits	
Terbium	109	70-130	11/18/2016 23:05

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	1611852-002A	Soil	11/16/2016 14:33	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 20:29
Chromium	**50**	0.50	1	11/18/2016 20:29
Lead	**3.7**	0.50	1	11/18/2016 20:29
Nickel	**38**	0.50	1	11/18/2016 20:29
Zinc	**30**	5.0	1	11/18/2016 20:29

Surrogates	REC (%)	Limits	
Terbium	110	70-130	11/18/2016 20:29

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	1611852-003A	Soil	11/16/2016 07:40	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:11
Chromium	**36**	0.50	1	11/18/2016 23:11
Lead	**150**	0.50	1	11/18/2016 23:11
Nickel	**37**	0.50	1	11/18/2016 23:11
Zinc	**78**	5.0	1	11/18/2016 23:11

Surrogates	REC (%)	Limits	
Terbium	107	70-130	11/18/2016 23:11

Analyst(s): DB

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3050B
Date Prepared:	11/17/16	**Analytical Method:**	SW6020
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	1611852-004A	Soil	11/16/2016 07:44	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:18
Chromium	**49**	0.50	1	11/18/2016 23:18
Lead	**3.3**	0.50	1	11/18/2016 23:18
Nickel	**34**	0.50	1	11/18/2016 23:18
Zinc	**26**	5.0	1	11/18/2016 23:18

Surrogates	REC (%)	Limits	
Terbium	104	70-130	11/18/2016 23:18

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	1611852-005A	Soil	11/16/2016 09:46	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:24
Chromium	**36**	0.50	1	11/18/2016 23:24
Lead	**9.4**	0.50	1	11/18/2016 23:24
Nickel	**18**	0.50	1	11/18/2016 23:24
Zinc	**18**	5.0	1	11/18/2016 23:24

Surrogates	REC (%)	Limits	
Terbium	104	70-130	11/18/2016 23:24

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	1611852-006A	Soil	11/16/2016 09:52	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:30
Chromium	**69**	0.50	1	11/18/2016 23:30
Lead	**4.4**	0.50	1	11/18/2016 23:30
Nickel	**48**	0.50	1	11/18/2016 23:30
Zinc	**34**	5.0	1	11/18/2016 23:30

Surrogates	REC (%)	Limits	
Terbium	113	70-130	11/18/2016 23:30

Analyst(s): DB

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3050B
Date Prepared:	11/17/16	**Analytical Method:**	SW6020
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	1611852-007A	Soil	11/16/2016 12:36	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:36
Chromium	**38**	0.50	1	11/18/2016 23:36
Lead	**97**	0.50	1	11/18/2016 23:36
Nickel	**20**	0.50	1	11/18/2016 23:36
Zinc	**98**	5.0	1	11/18/2016 23:36

Surrogates	REC (%)	Limits	
Terbium	116	70-130	11/18/2016 23:36

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	1611852-008A	Soil	11/16/2016 12:41	ICP-MS3	129977

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/18/2016 23:42
Chromium	**70**	0.50	1	11/18/2016 23:42
Lead	**4.2**	0.50	1	11/18/2016 23:42
Nickel	**49**	0.50	1	11/18/2016 23:42
Zinc	**32**	5.0	1	11/18/2016 23:42

Surrogates	REC (%)	Limits	
Terbium	111	70-130	11/18/2016 23:42

Analyst(s): DB

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550B
Date Prepared:	11/17/16	**Analytical Method:**	SW8015B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-4.5	1611852-001A	Soil	11/16/2016 14:30	GC6A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/18/2016 17:38
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/18/2016 17:38

Surrogates	REC (%)	Limits	
C9	97	72-114	11/18/2016 17:38

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-8.5	1611852-002A	Soil	11/16/2016 14:33	GC6A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/18/2016 18:56
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/18/2016 18:56

Surrogates	REC (%)	Limits	
C9	97	72-114	11/18/2016 18:56

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-4.5	1611852-003A	Soil	11/16/2016 07:40	GC11B	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**15**	5.0	5	11/19/2016 11:27
TPH-Motor Oil (C18-C36)	**160**	25	5	11/19/2016 11:27

Surrogates	REC (%)	Limits	
C9	90	72-114	11/19/2016 11:27

Analyst(s): TK Analytical Comments: e7,e2

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550B
Date Prepared:	11/17/16	**Analytical Method:**	SW8015B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-8.5	1611852-004A	Soil	11/16/2016 07:44	GC6A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/18/2016 20:14
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/18/2016 20:14

Surrogates	REC (%)	Limits	
C9	97	72-114	11/18/2016 20:14

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-4.5	1611852-005A	Soil	11/16/2016 09:46	GC6A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/18/2016 21:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/18/2016 21:32

Surrogates	REC (%)	Limits	
C9	98	72-114	11/18/2016 21:32

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-8.5	1611852-006A	Soil	11/16/2016 09:52	GC11A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/19/2016 09:30
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/19/2016 09:30

Surrogates	REC (%)	Limits	
C9	99	72-114	11/19/2016 09:30

Analyst(s): TK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3550B
Date Prepared:	11/17/16	**Analytical Method:**	SW8015B
Project:	750622603; 1110 Jackson Street	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-4.5	1611852-007A	Soil	11/16/2016 12:36	GC11A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/19/2016 10:48
TPH-Motor Oil (C18-C36)	**5.1**	5.0	1	11/19/2016 10:48

Surrogates	REC (%)	Limits	
C9	100	72-114	11/19/2016 10:48

Analyst(s): TK Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-8.5	1611852-008A	Soil	11/16/2016 12:41	GC11A	129952

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/19/2016 10:09
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/19/2016 10:09

Surrogates	REC (%)	Limits	
C9	100	72-114	11/19/2016 10:09

Analyst(s): TK

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/17/16	**Analytical Method:**	SW8015B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-5-GW	1611852-009A	Water	11/16/2016 15:24	GC11B	129921

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	11/18/2016 19:48
TPH-Motor Oil (C18-C36)	**420**	250	1	11/18/2016 19:48

Surrogates	REC (%)	Limits	
C9	93	72-117	11/18/2016 19:48

Analyst(s): TK Analytical Comments: e7,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-6-GW	1611852-010A	Water	11/16/2016 09:12	GC11B	129921

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**290**	50	1	11/18/2016 20:28
TPH-Motor Oil (C18-C36)	**2800**	250	1	11/18/2016 20:28

Surrogates	REC (%)	Limits	
C9	96	72-117	11/18/2016 20:28

Analyst(s): TK Analytical Comments: e7,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-7-GW	1611852-011A	Water	11/16/2016 10:46	GC11B	129921

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	11/21/2016 16:37
TPH-Motor Oil (C18-C36)	**520**	500	1	11/21/2016 16:37

Surrogates	REC (%)	Limits	
C9	99	72-117	11/21/2016 16:37

Analyst(s): TK Analytical Comments: e7,a3,b1

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1611852
Date Received:	11/17/16 17:20	**Extraction Method:**	SW3510C
Date Prepared:	11/17/16	**Analytical Method:**	SW8015B
Project:	750622603; 1110 Jackson Street	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-8-GW	**1611852-012A**	**Water**	**11/16/2016 13:37**	**GC11B**	**129921**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	11/21/2016 18:34
TPH-Motor Oil (C18-C36)	ND	500	1	11/21/2016 18:34

Surrogates	REC (%)	Limits	
C9	94	72-117	11/21/2016 18:34

Analyst(s): TK Analytical Comments: a3,b1

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129954
Date Analyzed:	11/17/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-129954 1611816-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0406	0.0050	0.050	-	81	53-116
Benzene	ND	0.0498	0.0050	0.050	-	100	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.180	0.050	0.20	-	90	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0505	0.0050	0.050	-	101	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0466	0.0040	0.050	-	93	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0468	0.0040	0.050	-	94	58-135
1,1-Dichloroethene	ND	0.0474	0.0050	0.050	-	95	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129954
Date Analyzed:	11/17/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-129954 1611816-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0468	0.0050	0.050	-	94	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0453	0.0050	0.050	-	91	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0447	0.0050	0.050	-	89	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0542	0.0050	0.050	-	108	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0500	0.0050	0.050	-	100	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129954
Date Analyzed:	11/17/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-129954 1611816-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.121	0.121		0.12	97	97	70-130
Toluene-d8	0.134	0.138		0.12	107	111	70-130
4-BFB	0.0126	0.0119		0.012	100	95	70-130
Benzene-d6	0.0987	0.0995		0.10	99	100	60-140
Ethylbenzene-d10	0.114	0.118		0.10	114	118	60-140
1,2-DCB-d4	0.0862	0.0978		0.10	86	98	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0398	0.0373	0.050	ND	80	75	53-116	6.64	20
Benzene	0.0484	0.0448	0.050	ND	97	90	63-137	7.62	20
t-Butyl alcohol (TBA)	0.169	0.159	0.20	ND	85	80	41-135	6.05	20
Chlorobenzene	0.0499	0.0461	0.050	ND	100	92	77-121	7.76	20
1,2-Dibromoethane (EDB)	0.0450	0.0414	0.050	ND	90	83	67-119	8.38	20
1,2-Dichloroethane (1,2-DCA)	0.0454	0.0420	0.050	ND	91	84	58-135	7.79	20
1,1-Dichloroethene	0.0462	0.0424	0.050	ND	92	85	42-145	8.41	20
Diisopropyl ether (DIPE)	0.0456	0.0425	0.050	ND	91	85	52-129	7.11	20
Ethyl tert-butyl ether (ETBE)	0.0442	0.0411	0.050	ND	88	82	53-125	7.20	20
Methyl-t-butyl ether (MTBE)	0.0434	0.0401	0.050	ND	87	80	58-122	7.84	20
Toluene	0.0529	0.0480	0.050	ND	106	96	76-130	9.77	20
Trichloroethene	0.0486	0.0452	0.050	ND	97	90	72-132	7.28	20
Surrogate Recovery									
Dibromofluoromethane	0.120	0.121	0.12		96	97	70-130	0.528	20
Toluene-d8	0.137	0.135	0.12		109	108	70-130	0.935	20
4-BFB	0.0124	0.0124	0.012		99	100	70-130	0.618	20
Benzene-d6	0.0970	0.0930	0.10		97	93	60-140	4.26	20
Ethylbenzene-d10	0.115	0.109	0.10		115	109	60-140	5.62	20
1,2-DCB-d4	0.0972	0.0904	0.10		97	90	60-140	7.18	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	130004
Date Analyzed:	11/17/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS/LCSD-130004

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	130004
Date Analyzed:	11/17/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS/LCSD-130004

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	25.0		25	100	70-130
Toluene-d8	24.1		25	96	70-130
4-BFB	2.33		2.5	93	70-130

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	130004
Date Analyzed:	11/17/16	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS/LCSD-130004

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	9.46	9.27	10	95	93	54-140	2.02	20
Benzene	10.1	9.86	10	101	99	47-158	2.69	20
t-Butyl alcohol (TBA)	37.1	36.4	40	93	91	42-140	1.98	20
Chlorobenzene	10.3	9.96	10	103	100	43-157	3.43	20
1,2-Dibromoethane (EDB)	9.51	9.27	10	95	93	44-155	2.61	20
1,2-Dichloroethane (1,2-DCA)	9.89	9.61	10	99	96	66-125	2.92	20
1,1-Dichloroethene	9.86	9.58	10	99	96	47-149	2.83	20
Diisopropyl ether (DIPE)	10.0	9.75	10	100	97	57-136	2.66	20
Ethyl tert-butyl ether (ETBE)	9.87	9.68	10	99	97	55-137	2.01	20
Methyl-t-butyl ether (MTBE)	9.56	9.34	10	96	93	53-139	2.30	20
Toluene	9.84	9.60	10	98	96	52-137	2.41	20
Trichloroethene	10.2	10.0	10	102	100	43-157	2.18	20
Surrogate Recovery								
Dibromofluoromethane	25.5	25.4	25	102	102	70-130	0	20
Toluene-d8	24.2	24.3	25	97	97	70-130	0	20
4-BFB	2.36	2.37	2.5	94	95	70-130	0.754	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/18/16	**BatchID:**	130039
Date Analyzed:	11/18/16	**Extraction Method:**	SW3550C
Instrument:	HPLC4	**Analytical Method:**	SW8310
Matrix:	Soil	**Unit:**	mg/kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-130039 1611852-001AMS/MSD

QC Summary Report for SW8310

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.0050	-	-	-	-
Acenaphthylene	ND	-	0.0050	-	-	-	-
Anthracene	ND	-	0.0050	-	-	-	-
Benzo (a) anthracene	ND	0.0132	0.0050	0.015	-	88	70-130
Benzo (a) pyrene	ND	0.0143	0.0050	0.015	-	95	70-130
Benzo (b) fluoranthene	ND	-	0.0050	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.0050	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.0050	-	-	-	-
Chrysene	ND	0.0135	0.0050	0.015	-	90	70-130
Dibenzo (a,h) anthracene	ND	-	0.0050	-	-	-	-
Fluoranthene	ND	-	0.0050	-	-	-	-
Fluorene	ND	-	0.0050	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.0050	-	-	-	-
1-Methylnaphthalene	ND	0.0135	0.0050	0.015	-	90	70-130
2-Methylnaphthalene	ND	0.0131	0.0050	0.015	-	87	70-130
Naphthalene	ND	-	0.0050	-	-	-	-
Phenanthrene	ND	0.0130	0.0050	0.015	-	87	70-130
Pyrene	ND	0.0156	0.0050	0.015	-	104	70-130
Surrogate Recovery							
Decafluorobiphenyl	0.913	0.875		1	91	87	70-130
4,4-Dichlorobiphenyl	0.449	0.446		0.50	90	89	70-130

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/18/16	**BatchID:**	130039
Date Analyzed:	11/18/16	**Extraction Method:**	SW3550C
Instrument:	HPLC4	**Analytical Method:**	SW8310
Matrix:	Soil	**Unit:**	mg/kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-130039 1611852-001AMS/MSD

QC Summary Report for SW8310

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) anthracene	0.0113	0.0114	0.015	ND	76	76	70-130	0	30
Benzo (a) pyrene	0.00800	0.00760	0.015	ND	53,F1	51,F1	70-130	5.10	30
Chrysene	0.00967	0.00971	0.015	ND	64,F1	65,F1	70-130	0.447	30
1-Methylnaphthalene	0.0140	0.0134	0.015	ND	94	89	70-130	4.57	30
2-Methylnaphthalene	0.0139	0.0132	0.015	ND	92	88	70-130	4.90	30
Phenanthrene	0.0134	0.0136	0.015	ND	89	91	70-130	1.51	30
Pyrene	0.0128	0.0128	0.015	ND	86	85	70-130	0.378	30
Surrogate Recovery									
Decafluorobiphenyl	0.859	0.850	1		86	85	70-130	1.12	30
4,4-Dichlorobiphenyl	0.436	0.437	0.50		87	87	70-130	0	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129945
Date Analyzed:	11/17/16	**Extraction Method:**	SW3510C
Instrument:	HPLC4	**Analytical Method:**	SW8310
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS/LCSD-129945

QC Summary Report for SW8310

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.0500	-	-	-
Acenaphthylene	ND	0.0500	-	-	-
Anthracene	ND	0.0500	-	-	-
Benzo (a) anthracene	ND	0.0250	-	-	-
Benzo (a) pyrene	ND	0.0500	-	-	-
Benzo (b) fluoranthene	ND	0.0250	-	-	-
Benzo (k) fluoranthene	ND	0.0250	-	-	-
Benzo (g,h,i) perylene	ND	0.0500	-	-	-
Chrysene	ND	0.0500	-	-	-
Dibenzo (a,h) anthracene	ND	0.0500	-	-	-
Fluoranthene	ND	0.0500	-	-	-
Fluorene	ND	0.0500	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0250	-	-	-
1-Methylnaphthalene	ND	0.0500	-	-	-
2-Methylnaphthalene	ND	0.0500	-	-	-
Naphthalene	ND	0.0500	-	-	-
Phenanthrene	ND	0.0500	-	-	-
Pyrene	ND	0.0500	-	-	-
Surrogate Recovery					
Decafluorobiphenyl	51.8		50	104	70-130
4,4-Dichlorobiphenyl	25.9		25	104	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzo (a) anthracene	0.766	0.730	0.75	102	97	70-130	4.88	20
Benzo (a) pyrene	0.744	0.727	0.75	99	97	70-130	2.29	20
Chrysene	0.786	0.757	0.75	105	101	70-130	3.72	20
1-Methylnaphthalene	0.722	0.696	0.75	96	93	70-130	3.69	20
2-Methylnaphthalene	0.736	0.742	0.75	98	99	70-130	0.853	20
Phenanthrene	0.827	0.757	0.75	110	101	70-130	8.87	20
Pyrene	0.767	0.808	0.75	102	108	70-130	5.30	20
Surrogate Recovery								
Decafluorobiphenyl	52.0	49.8	50	104	100	70-130	4.38	20
4,4-Dichlorobiphenyl	26.8	25.6	25	107	102	70-130	4.87	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/18/16 - 11/19/16	**BatchID:**	130033
Date Analyzed:	11/18/16 - 11/19/16	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-130033 1611852-010AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	54.8	40	60	-	91	85-112
MTBE	ND	10.7	5.0	10	-	107	74-127
Benzene	ND	10.4	0.50	10	-	104	81-124
Toluene	ND	10.8	0.50	10	-	108	79-131
Ethylbenzene	ND	11.1	0.50	10	-	111	86-127
Xylenes	ND	35.0	1.5	30	-	117	87-133
Surrogate Recovery							
aaa-TFT	10.4	10.0		10	104	100	87-117

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.7	64.3	60	ND	103	107	85-113	0.0191	20
MTBE	10.9	10.6	10	ND	109	106	73-120	11.0	20
Benzene	10.5	10.5	10	ND	104	104	84-121	0	20
Toluene	11.0	10.9	10	ND	110	109	86-125	10.8	20
Ethylbenzene	11.4	11.3	10	ND	114	113	93-124	6.55	20
Xylenes	35.7	34.7	30	ND	119	116	93-130	6.73	20
Surrogate Recovery									
aaa-TFT	10.1	10.4	10		101	104	89-115	9.19	20

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/20/16 - 11/21/16	**BatchID:**	130095
Date Analyzed:	11/20/16 - 11/21/16	**Extraction Method:**	SW5030B
Instrument:	GC19, GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-130095 1611918-010AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.4	40	60	-	99	85-112
MTBE	ND	10.8	5.0	10	-	108	74-127
Benzene	ND	9.86	0.50	10	-	99	81-124
Toluene	ND	10.4	0.50	10	-	104	79-131
Ethylbenzene	ND	10.9	0.50	10	-	109	86-127
Xylenes	ND	34.2	1.5	30	-	114	87-133
Surrogate Recovery							
aaa-TFT	9.22	9.77		10	92	98	87-117

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	57.2	60.2	60	ND	95	100	85-113	5.05	20
MTBE	10.7	11.0	10	ND	107	109	73-120	2.04	20
Benzene	10.2	10.0	10	ND	102	101	84-121	1.05	20
Toluene	10.6	10.6	10	ND	106	106	86-125	0	20
Ethylbenzene	11.0	11.0	10	ND	110	110	93-124	0	20
Xylenes	34.8	34.6	30	ND	115	115	93-130	0	20
Surrogate Recovery									
aaa-TFT	9.83	9.89	10		98	99	89-115	0.542	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129955
Date Analyzed:	11/18/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-129955 1611817-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	47.9	0.25	50	-	96	75-125
Chromium	ND	47.0	0.50	50	-	94	75-125
Lead	ND	47.6	0.50	50	-	95	75-125
Nickel	ND	48.7	0.50	50	-	97	75-125
Zinc	ND	492	5.0	500	-	98	75-125
Surrogate Recovery							
Terbium	518	481		500	104	96	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	50.8	50.4	50	ND	102	101	75-125	0.949	20
Chromium	90.9	76.8	50	31.56	119	90	75-125	16.9	20
Lead	54.9	52.9	50	2.296	105	101	75-125	3.71	20
Nickel	73.5	69.5	50	19.05	109	101	75-125	5.61	20
Zinc	546	541	500	22.70	105	104	75-125	0.938	20
Surrogate Recovery									
Terbium	530	517	500		106	103	70-130	2.50	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Cadmium	ND<1.2	ND	-	-
Chromium	33.1	31.56	4.88	20
Lead	2.55	2.296	11.1	-
Nickel	19.2	19.05	0.787	20
Zinc	ND<25	22.70	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129977
Date Analyzed:	11/18/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-129977 1611852-002AMS/MSD 1611852-002APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	52.6	0.25	50	-	105	75-125
Chromium	ND	52.8	0.50	50	-	106	75-125
Lead	ND	53.7	0.50	50	-	107	75-125
Nickel	ND	52.5	0.50	50	-	105	75-125
Zinc	ND	532	5.0	500	-	106	75-125
Surrogate Recovery							
Terbium	542	549		500	108	110	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	54.6	54.9	50	ND	109	110	75-125	0.530	20
Chromium	113	118	50	49.95	127,F10	135,F10	75-125	3.64	20
Lead	60.5	60.6	50	3.658	114	114	75-125	0	20
Nickel	99.5	101	50	37.75	123	126,F10	75-125	1.23	20
Zinc	580	583	500	29.63	110	111	75-125	0.378	20
Surrogate Recovery									
Terbium	571	576	500		114	115	70-130	0.732	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	101	50	49.95	102	75-125
Nickel	89.6	50	37.75	104	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Cadmium	ND<1.2	ND	-	-
Chromium	52.0	49.95	4.10	20
Lead	3.92	3.658	7.16	-
Nickel	37.5	37.75	0.662	20
Zinc	30.1	29.63	1.59	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/17/16	**BatchID:**	129952
Date Analyzed:	11/18/16	**Extraction Method:**	SW3550B
Instrument:	GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS-129952 1611814-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	43.4	1.0	40	-	108	91-127
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.8	22.9		25	91	92	74-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		13	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Langan	**WorkOrder:**	1611852
Date Prepared:	11/16/16	**BatchID:**	129921
Date Analyzed:	11/18/16	**Extraction Method:**	SW3510C
Instrument:	GC39B	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	750622603; 1110 Jackson Street	**Sample ID:**	MB/LCS/LCSD-129921

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	605		625	97	74-107

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1140	1120	1000	114	112	95-136	1.10	30
Surrogate Recovery								
C9	613	620	625	98	99	74-107	1.05	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1611852 **ClientCode: TWRK**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Josh Graber
Langan
501 14th Street, 3rd Floor
Oakland, CA 94612
(415) 955-9040 FAX: (415) 955-9041

Email: jdgraber@treadwellrollo.com
cc/3rd Party: kstaehlin@langan.com;
PO:
ProjectNo: 750622603; 1110 Jackson Street

Bill to:
Accounts Payable
Langan
555 Montgomery St., Suite 1300
San Francisco, CA 94111
Langan_InvoiceCapture@concursolutio

Requested TAT: 3 days;

Date Received: **11/17/2016**
Date Logged: **11/17/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1611852-001	EB-5-4.5	Soil	11/16/2016 14:30	☐	A		A		A		A	A				
1611852-002	EB-5-8.5	Soil	11/16/2016 14:33	☐	A		A		A		A	A				
1611852-003	EB-6-4.5	Soil	11/16/2016 07:40	☐	A		A		A		A	A				
1611852-004	EB-6-8.5	Soil	11/16/2016 07:44	☐	A		A		A		A	A				
1611852-005	EB-7-4.5	Soil	11/16/2016 09:46	☐	A		A		A		A	A				
1611852-006	EB-7-8.5	Soil	11/16/2016 09:52	☐	A		A		A		A	A				
1611852-007	EB-8-4.5	Soil	11/16/2016 12:36	☐	A		A		A		A	A				
1611852-008	EB-8-8.5	Soil	11/16/2016 12:41	☐	A		A		A		A	A				
1611852-009	EB-5-GW	Water	11/16/2016 15:24	☐		B		C		A			A			
1611852-010	EB-6-GW	Water	11/16/2016 09:12	☐		B		C		A			A			
1611852-011	EB-7-GW	Water	11/16/2016 10:46	☐		B		C		A			A			
1611852-012	EB-8-GW	Water	11/16/2016 13:37	☐		B		C		A			A			

Test Legend:

1	8260B_S	2	8260B_W	3	8310_S	4	8310_W
5	G-MBTEX_S	6	G-MBTEX_W	7	LUFTMS_6020_TTLC_S	8	TPH(DMO)_S
9	TPH(DMO)_W	10		11		12	

Prepared by: Agustina Venegas

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A contain testgroup Multi Range_S.; The following SampIDs: 009A, 010A, 011A, 012A contain testgroup Multi Range_W.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: LANGAN
Client Contact: Josh Graber
Contact's Email: jdgraber@treadwellrollo.com

Project: 750622603; 1110 Jackson Street
Comments:

Work Order: 1611852
QC Level: LEVEL 2
Date Logged: 11/17/2016

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611852-001A	EB-5-4.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 14:30	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-002A	EB-5-8.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 14:33	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-003A	EB-6-4.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 7:40	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-004A	EB-6-8.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 7:44	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: LANGAN **Project:** 750622603; 1110 Jackson Street **Work Order:** 1611852
Client Contact: Josh Graber **QC Level:** LEVEL 2
Contact's Email: jdgraber@treadwellrollo.com **Comments:** **Date Logged:** 11/17/2016

☐WaterTrax ☐WriteOn ☐EDF ☐Excel ☐Fax ☑Email ☐HardCopy ☐ThirdParty ☐J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611852-004A	EB-6-8.5	Soil	SW8260B (VOCs)	1	Acetate Liner	☐	11/16/2016 7:44	3 days		☐	
1611852-005A	EB-7-4.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 9:46	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-006A	EB-7-8.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 9:52	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-007A	EB-8-4.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 12:36	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	
			SW8310 (PAHs/PNAs)			☐		3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-008A	EB-8-8.5	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	11/16/2016 12:41	3 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm			☐		3 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: LANGAN **Project:** 750622603; 1110 Jackson Street **Work Order:** 1611852
Client Contact: Josh Graber **QC Level:** LEVEL 2
Contact's Email: jdgraber@treadwellrollo.com **Comments:** **Date Logged:** 11/17/2016

☐WaterTrax ☐WriteOn ☐EDF ☐Excel ☐Fax ☑Email ☐HardCopy ☐ThirdParty ☐J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611852-008A	EB-8-8.5	Soil	SW8310 (PAHs/PNAs)	1	Acetate Liner	☐	11/16/2016 12:41	3 days		☐	
			SW8260B (VOCs)			☐		3 days		☐	
1611852-009A	EB-5-GW	Water	Multi-Range TPH by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	11/16/2016 15:24	3 days	40%+	☐	
1611852-009B	EB-5-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	11/16/2016 15:24	3 days	40%+	☐	
1611852-009C	EB-5-GW	Water	SW8310 (PAHs/PNAs)	1	1LA w/ HCl	☐	11/16/2016 15:24	3 days	40%+	☐	
1611852-010A	EB-6-GW	Water	Multi-Range TPH by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	11/16/2016 9:12	3 days	10%+	☐	
1611852-010B	EB-6-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	11/16/2016 9:12	3 days	10%+	☐	
1611852-010C	EB-6-GW	Water	SW8310 (PAHs/PNAs)	1	1LA w/ HCl	☐	11/16/2016 9:12	3 days	10%+	☐	
1611852-011A	EB-7-GW	Water	Multi-Range TPH by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	11/16/2016 10:46	3 days	30%+	☐	
1611852-011B	EB-7-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	11/16/2016 10:46	3 days	30%+	☐	
1611852-011C	EB-7-GW	Water	SW8310 (PAHs/PNAs)	1	1LA w/ HCl	☐	11/16/2016 10:46	3 days	30%+	☐	
1611852-012A	EB-8-GW	Water	Multi-Range TPH by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	11/16/2016 13:37	3 days	35%+	☐	
1611852-012B	EB-8-GW	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	11/16/2016 13:37	3 days	35%+	☐	
1611852-012C	EB-8-GW	Water	SW8310 (PAHs/PNAs)	1	1LA w/ HCl	☐	11/16/2016 13:37	3 days	35%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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16115852

PLEASE C.C. ANNIE S. AT KSTAEHLIN@LANGAN.COM

10244

LANGAN

CHAIN OF CUSTODY RECORD

RUSH

Page 1 of 1

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501 14th Street, Third Floor, Oakland CA 94612
3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
4030 Moorpark Ave. Suite 210, San Jose, CA 95117-1849

Site Name: 1110 JACKSON STREET
Job Number: 750622603
Project Manager\Contact: JOSH GRABER (510-874-7086)
Samplers: KSS
Recorder (Signature Required):

Turnaround Time: 72-HOUR

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: TPH g+d,mo	VOCs	PAHs (8310)	LUFT 5	Silica gel clean-up	Hold	Remarks
EB-5-4.5	11/16/16	1430		X							X	X	X	X	X			
EB-5-8.5		1433		X							X	X	X	X	X			
EB-6-4.5		0740		X							X	X	X	X	X			
EB-6-8.5		0744		X							X	X	X	X	X			
EB-7-4.5		0946		X							X	X	X	X	X			
EB-7-8.5		0952		X							X	X	X	X	X			
EB-8-4.5		1236		X							X	X	X	X	X			
EB-8-8.5		1241		X							X	X	X	X	X			
+40 EB-5-GW		1524			X			5			2	X	X	X				
+10 EB-6-GW		0912			X			5			2	X	X	X				
+30 EB-7-GW		1046			X			5			2	X	X	X				
+35 EB-8-GW	11/16/16	1337			X			5			2	X	X	X				

Relinquished by: (Signature)	Date: 11/17/2016	Time 0930	Received by: (Signature)	Date 11-17-16 Time 1400
Relinquished by: (Signature)	Date: 11-17-16	Time 1720	Received by: (Signature)	Date Time
Relinquished by: (Signature)	Date:	Time	Received by Lab: (Signature)	Date 11/17/16 Time 1720

Sent to Laboratory (Name): McCAMPBELL ANALYTICAL
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 6.4

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Langan**	Date and Time Received:	**11/17/2016 17:20**
Project Name:	**750622603; 1110 Jackson Street**	Date Logged:	**11/17/2016**
		Received by:	Agustina Venegas
WorkOrder №:	**1611852** Matrix: Soil/Water	Logged by:	Agustina Venegas
Carrier:	Bernie Cummins (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐
Chain of custody signed when relinquished and received?	Yes	☑	No	☐
Chain of custody agrees with sample labels?	Yes	☑	No	☐
Sample IDs noted by Client on COC?	Yes	☑	No	☐
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐
Sampler's name noted on COC?	Yes	☑	No	☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Sample/Temp Blank temperature	Temp: 6.6°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

Comments: