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November 17, 2017

Ms. Karel Detterman
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I, Bob Winet, hereby authorize ERAS Environmental, Inc. to submit the Limited Phase II Subsurface Investigation for 1091 Calcot Place, Oakland, California, dated November 17, 2017 to the Alameda County Health Care Services Agency.

"I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website."

Signature: _____



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LIMITED PHASE II SUBSURFACE INVESTIGATION

AT

**1091 Calcot Place
Oakland, California**

**ERAS PROJECT NUMBER: 16-005-02
GLOBAL ID: T0000006533
ALAMEDA COUNTY LOP CASE No. RO0003162**

Prepared for

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November 17, 2017

TABLE OF CONTENTS

CERTIFICATION	II
1.0 INTRODUCTION.....	1
1.1 BACKGROUND	1
1.2 PREVIOUS SUBSURFACE INVESTIGATIONS	2
2.0 REGIONAL GEOLOGY/HYDROLOGY	5
3.0 WORK PERFORMED	6
3.1 SCOPE OF INVESTIGATION.....	6
3.2 BORING LOCATIONS AND SAMPLING.....	6
3.3 ANALYTICAL RESULTS	9
4.0 UPDATED SITE CONCEPTUAL MODEL	11
4.1 HYDROGEOLOGIC SETTING.....	11
4.2 SUMMARY OF EXTENT OF CONTAMINATION	11
5.0 CONCLUSIONS AND RECOMMENDATIONS	14
6.0 REFERENCES.....	15

FIGURES

1	Site Location Topographic Map
2	Boring Location Map
3	TPH-dro in Soil (3.5'-10' BGS)
4	TPH-oro in Soil (3.5'-10' BGS)
5	TPH-dro in Groundwater
6	TPH-oro in Groundwater

TABLES

1	Analytical Results – Soil
2	Analytical Results – Groundwater
3	Conceptual Site Model

APPENDICES

A	Drilling Permit
B	Standard Operating Procedures
C	Lithologic Logs
D	Analytical Results
E	Well Elevation Survey & Well Completion Report
F	Well Development & Sampling Data

CERTIFICATION

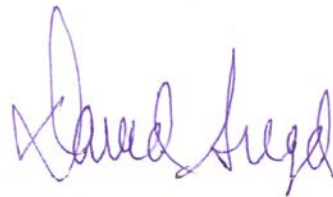
This **Limited Phase II Subsurface Investigation** at 1019 Calcot Place in Oakland, California, has been prepared by ERAS Environmental, Inc. (ERAS) under the professional supervision of the Registered Geologist whose signature appears hereon.

This report was prepared in general accordance with the accepted standard of practice that exists in Northern California at the time the investigation was performed. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies.

Our firm has prepared this report for the Client's exclusive use for this particular project and in accordance with generally accepted professional practices within the area at the time of our investigation. No other representations, expressed or implied, and no warranty or guarantee is included or intended.

This report may be used only by the client and only for the purposes stated within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify ERAS of such intended use. Based on the intended use of report, ERAS may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release ERAS from any liability resulting from the use of this report by any unauthorized party.

Sincerely,
ERAS Environmental, Inc.



Curtis Payton, PG 5068
Senior Geologist

David Siegel
Senior Program Manager

November 17, 2017

1.0 INTRODUCTION

The following report presents the results of the collection of soil and groundwater samples to further characterize the lateral and vertical extent of contamination at a commercial site located at 1091 Calcot Place in Oakland, California (the "Property").

Previous subsurface investigations conducted by ERAS on the Property identified contamination including elevated concentrations of petroleum hydrocarbons quantified as diesel and oil range organics (TPH-dro¹, and TPH-oro).

This report was prepared to further investigate contamination in the area of the fuel oil underground storage tanks (USTs) and where "burners" (possible furnaces) were located so that an environmental site case closure can be obtained from the Alameda County Department of Environmental Health (ACDEH).

The Property is located on the northwest side of Calcot Place near the intersection of East 11th Street and 23rd Avenue in the western portion of the City of Oakland. The Property consists of an approximately 1.17-acre rectangular shaped parcel of land that is improved with an approximately 1,300-square foot one story commercial building and associated paved areas. The Property is currently used for a parking lot/storage yard.

The location of the Property is shown on **Figure 1**. The layout of the Property is shown on **Figure 2**.

1.1 BACKGROUND

The history and the description of the Property is based on information obtained during a Phase 1 Environmental Site Assessment conducted by ERAS in 2014.

The Property is in an area of mixed commercial and residential land uses. The Property was occupied by a parking lot for live/work lofts at 1091 Calcot Place and storage and repair of personal automobiles and vehicles formerly used in movie production.

To the northeast of the Property was Southern Pacific Railroad. To the southeast was Calcot Place and across the street was a commercial building at 1092 Calcot Place. To the west of the Property was the Nimitz Freeway (I-880). The Property also wrapped around the 1091 Calcot Building which according to signs was formerly occupied by California Cotton Mills. The building was indicated to have been built in 1883. The former California Cotton Mill building is now occupied by live/work lofts.

¹ TPH-gro, TPH-dro, and TPH-oro are methods that compare analytical results to standards for gasoline, diesel, and motor oil, respectively. Therefore, analytical results are estimates of quantities based on what would be expected for the range of hydrocarbon results for the standard. Gasoline range organics (gro) are those hydrocarbon compounds that are in the range of C6 to C10, diesel range organics (dro) are those hydrocarbon compounds that are in the range of C10 to C23, and oil range organics (oro) are those hydrocarbon compounds that are in the range of C18 to C36. There can be overlap in reporting methods as well as identification of compounds that fall within the standard that may not necessarily be derived from gasoline, diesel, or oil.

The Property contained parking and storage space along with one small building of brick construction on a concrete slab foundation. The building was located on the far northwestern corner of the Property. The building was used for storage of vehicles, parts, and various other items for the restoration of vehicles.

The yard area was divided into two areas. The southeastern-most portion was an asphalt paved parking area for the live/work lofts at 1091 Calcot Place. No leaks or spills were observed in this area other than di minimis oil spotting from parked vehicles. None of the oil spotting was noted to be in the area of major cracks or drains. The northeastern portion of the Property was an asphalt paved yard area used for the storage of vehicles, storage containers, storage trailers, and various other automotive items.

On a 1911 Sanborn Fire Insurance map three furnaces and two underground oil storage tanks were indicated to have been present along the northeastern side of the Property. No records were found during this investigation to document their removal or if any sampling was performed.

Septic systems, drywells, monitoring wells or evidence of subsurface investigations were not observed on the Property by ERAS. No evidence of aboveground storage tanks (ASTs) or underground storage tanks (USTs) were observed on the Property by ERAS. No evidence of leakage, spillage, and dumping of regulated material was observed on the Property by ERAS.

1.2 PREVIOUS SUBSURFACE INVESTIGATIONS

2014 - ERAS Environmental conducted a subsurface investigation of the Property on December 23, 2014 that included the drilling of three soil borings B-1 through B-3, and the collection of groundwater samples. The soil borings were drilled directly in the area of the former USTs, their purpose was to collect samples from beneath the USTs, estimated to be approximately 10-12 feet below ground surface (bgs) to assess possible environmental impact from their previous use. Groundwater was encountered at depths of approximately 3-11 feet bgs so groundwater samples were collected in lieu of the soil samples. The results of the analysis of these samples are summarized on **Table 2** for groundwater.

The area of the former USTs was screened using a magnetometer and ground penetrating radar (GPR) to determine if the USTs had been removed. The USTs were determined to have been removed.

The results of the investigation indicated the former presence of the USTs on the Property have impacted the subsurface environmental conditions beneath the Property at concentrations above the Regional Water Quality Control Board (RWQCB) Environmental Screening Limit (ESLs). ERAS concluded that additional investigations would likely be needed to characterize the nature and extent of the petroleum hydrocarbon contaminants detected as well as typical semi-volatile organic compounds (SVOCs) found in fuel and oil blends.

ERAS recommended the report be provided to the Alameda County Department of Environmental Health (ACDEH) and the RWQCB for further oversight.

2015 - The ACDEH requested a work plan for further investigation in correspondence dated April 14, 2015. ERAS prepared a work plan dated August 31, 2015 in response to the request by ACDEH. The work plan was approved by the ACDEH on November 20, 2015. The ACDEH requested that soil samples be collected from depth intervals of 0-5 feet bgs and 5-10 feet bgs.

2016 - ERAS Environmental conducted a subsurface investigation of the Property on January 20, 2016 that included the drilling of four soil borings (B-4 through B-7) for the collection of soil and groundwater samples. The soil borings were drilled to characterize the vertical and lateral extent of the contamination associated with the former USTs.

2017 - On March 1, 2017 ERAS submitted a work plan (ERAS, 2017a) requested by Ms. Karel Detterman of ACDEH (ACDEH, 2017a) in a letter dated January 20, 2017. The work plan was prepared to further investigate the nature and extent of hydrocarbons near the former fuel oil USTs and in the area of the former burners by the drilling of 10 additional soil borings (B-8 through B-16 and EW-1). A Work Plan Addendum was subsequently submitted dated May 16, 2017 (ERAS, 2017b) the Work Plan Addendum was conditionally approved by ACDEH in the letter dated July 21, 2017 (ACDEH, 2017b).

The results of the analysis of soil samples are summarized on **Table 1** and the results of groundwater sample analyses are summarized on **Table 2**.

Soil - The soil samples from 0-5 and 5-10 feet bgs were analyzed for TPH-gro, TPH-dro, and TPH-oro by EPA Method 8015, VOCs including naphthalene by EPA Method 8260B, SVOCs by EPA Method 8270, along with PAHs by SIM Mode.

The groundwater samples from the borings were analyzed for TPH-gro, TPH-dro, and TPH-oro by EPA Method 8015, and VOCs including naphthalene by EPA Method 8260B.

Shallow soil, 3.5-4 feet bgs, was found to contain TPH-dro above the ESL (230 mg/Kg) only in boring B-11 (230 & 270 mg/Kg, depending on utilization of silica gel cleanup). Shallow soil, 3.5-4 feet bgs, was found to contain phenols above the ESL (0.076 mg/Kg) at concentrations which ranged from 0.30-0.59 mg/Kg. The shallow soil samples collected from 3.5 to 4 feet were also found to contain benzo(a)pyrene above the ESL (0.016 mg/Kg) at concentrations which ranged from 0.091 to 0.77 mg/Kg. Benzo-a-anthracene was detected in the shallow soil samples above the ESL (0.16 mg/Kg) at concentrations ranging from 0.2 to 0.57 mg/Kg). Benzo-b-fluoranthene was detected in the shallow soil samples above the ESL (0.16 mg/Kg) at concentrations ranging from 0.19 to 0.57 mg/Kg).

The deeper soil interval (7.5-8 feet bgs; and 9.5-10 ft bgs for B-4), yielded fewer positive results for the VOCs and SVOCs except in boring B-7 and to a lesser degree B-8. In particular, the sample collected from boring B-7 contained concentrations of TPH-dro, naphthalene, 2-methylnaphthalene, benzo-a-anthracene and benzo-b-fluoranthene which exceeded their respective ESLs. B-8 also yielded benzo-a-anthracene and benzo-a-pyrene results above their respective ESLs.

Groundwater – Most of the groundwater samples were analyzed for the presence of TPH-dro

and TPH-oro using silica gel cleanup (SGC), some were also analyzed for these contaminants without silica gel cleanup. The analyses indicate only minor difference between SGC and non-SGC results for TPH-dro except in Boring B-11. SGC and non-SGC results were more significant for TPH-oro as shown on **Table 2**.

Based on the results of this investigation, the highest concentrations of TPH-dro & TPH-oro in groundwater were in the area of B-3 (TPH-dro at a concentration of 15,000 micrograms per liter (µg/L) and TPH-oro at 23,000 µg/L and appear to attenuate significantly in all directions except to the southeast as indicated by the result in Boring B-5. Note groundwater was not encountered in Boring B-10 to the southeast of B-5. Concentrations of TPH-dro with SGC in Boring B-11, beyond B-10 to the southeast, were less than the detection limit and significantly lower in B-11.

Groundwater flow is estimated to be variable from the southwest to the northwest (see **Section 2** below). The highest concentration of TPH-dro with SGC away from B-3 is 6,100 ug/L at B-2 and then 6,000 ug/L at B-5. The results for B-4, B-6, B-7 B-8 and B-9 suggest a rapid decay in TPH-dro and TPH-oro concentrations further away including in a down-gradient direction. The distribution of TPH-dro in groundwater is shown on

Note additional evaluation of the analytical results are provided below in **Section 3.3**.

2.0 REGIONAL GEOLOGY/HYDROLOGY

The Property is in the southern part of the City of Oakland in the San Francisco Bay area. The San Francisco Bay area occupies a broad alluvial valley that slopes gently northward toward Oakland Bay and is flanked by alluvial fans deposited at the foot of the Diablo Range to the east and the Santa Cruz Mountains to the west. The northern part of the valley is called the Santa Clara Valley. Surface topography in the immediate vicinity of the Property is gently sloping down to the southwest towards tidally influenced Brooklyn Basin Tidal Canal.

The Property is at an elevation of approximately 15 feet above Mean Sea Level according to the United States Geological Survey (USGS) Oakland East Quadrangle California 7.5 Minute Series topographic map.

Materials underlying the site are unconsolidated deposits of near shore and beach sediments, deposited in Oakland Bay at higher sea level stands. At shallow depths beneath these sediments are chert, greywacke, serpentine and shale bedrock that are a part of the Cretaceous to Jurassic-aged Franciscan Formation. Bedrock is exposed to the west and north on the upland surfaces.

The subject site is located on the San Francisco Bay Plain in the northernmost part of the Santa Clara Valley Groundwater Basin, (DWR, 1967), the surface of which slopes gently down toward the Brooklyn Basin Tidal Canal.

The regional groundwater flow follows the topography, moving from areas of higher elevation to areas of lower elevation. The regional groundwater flow direction in the area of the Property is estimated to be toward the southwest toward the Brooklyn Basin Tidal Canal. At the Exxon Station at 2200 E 12th, approximately 600 feet to the north, the depth to water was reported to be approximately 4.2 to 16.5 feet below ground surface (bgs) with a flow direction to the west (ACDEH, 2012). At the Credit World Auto Sales site at 2245 International Boulevard, approximately 750 feet to the northeast, the depth to water was reported to be approximately 1.38-18.25 feet bgs with a flow direction from southwest to northwest (ACDEH, 2017).

Based on the subsurface investigations conducted by ERAS, the subsurface vadose zone lithology encountered consisted of silty clay underlain by the water bearing zone which consisted of silt and silty sand. Groundwater was encountered at depths ranging from approximately 3 feet in the former UST location to approximately 15 feet bgs. Boring B-10 was an exception in that no groundwater was encountered to the total depth of 24 feet bgs.

3.0 WORK PERFORMED

3.1 SCOPE OF INVESTIGATION

The scope of work conducted by ERAS for this investigation was as follows.

- Obtained a permit for drilling from the Alameda County Public Works Department (ACPWD).
- Cleared the boring locations for the presence of utilities by notifying Underground Service Alert and employing a private underground locating/clearance service.
- Advanced ten borings using a direct push sample rig. The borings in the location of the former burners were advanced to a depth of 12 feet bgs. The remaining borings were advanced to approximately 24 feet. The borings were continuously logged by a field geologist.
- Collected a selected soil sample from the depth intervals of 3.5-4 and 7.5-8 feet bgs at each of the borings.
- Collected a groundwater sample from each boring and from the well installed.
- Installed a groundwater well in the location of the former USTs near the boring which contained the highest concentration of the contaminants of concern (B-3). The well was set to a depth of 24 feet bgs. The screen interval was based on the lithology observed during drilling and the groundwater table encountered.
- Collected soil samples from the tank pit in the location of extraction well EW-1 from the depth intervals of 3.5-4 and 7.5-8 feet bgs for analysis.
- Developed well EW-1 and collected a groundwater sample for laboratory analysis.
- Analyzed the groundwater samples for TPH-gro, TPH-dro, and TPH-oro by EPA Method 8015, and VOCs including naphthalene by EPA Method 8260B.
- Analyzed the soil samples for TPH-gro, TPH-dro, and TPH-oro by EPA Method 8015, VOCs including naphthalene by EPA Method 8260B, SVOCs by EPA Method 8270, and for PAHs by SIM Mode.
- Prepared this report summarizing the field procedures and results of the investigation.

3.2 BORING LOCATIONS AND SAMPLING

ERAS procured a drilling permit from the ACPWD prior to drilling activities which is included in **Appendix A**. Ten 2.5-inch diameter soil borings were drilled using a hydraulic push sampling rig by ECA of Aptos, California on August 30-31, 2017. One soil boring was over drilled with 10-inch augers to convert the boring to extraction well EW-1. The locations of the borings and well are shown on **Figure 2**. The Standard Operating Procedures for direct-push sampling are

included in **Appendix B**. The Standard Operating Procedures for the installation, development, and sampling of a groundwater well are also included in **Appendix B**.

ERAS advanced ten soil borings on the Property (designated B-8 through B-16, and EW-1). The boring locations were proposed to further characterize the extent of contaminants in soil and groundwater that were previously detected.

Soil Borings – Soil borings were drilled in the following locations:

- Boring B-8 was located at the western portion of the Property adjacent to Interstate 880 downgradient of previous boring B-6 (January 20, 2016) which contained concentrations of TPH exceeding the ESLs.
- Boring B-9 was located approximately 100 feet southeast of boring B-8 in the current vehicle storage area down-gradient of previous boring B-5 (January 20, 2016) which contained concentrations of TPH exceeding the ESLs.
- Boring B-10 was located at the southwest corner of the Property adjacent to an underground fire suppression line.
- Boring B-11 was located approximately 75 feet to the southeast of boring B-10 in the parking area of the Calcot Lofts adjacent to an underground fire suppression line.
- Boring B-16 was in the former USTs area adjacent to boring B-2 (January 20, 2016). This boring was approximately 10 feet to the west of the proposed boring location due to multiple refusals during drilling.
- Boring EW-1 was located adjacent to boring B-3 (January 20, 2016) approximately 4 feet from the proposed boring location also due to refusal.

The borings were advanced to a depth of approximately 24 feet bgs.

Borings B-12 through B-15 were in the northeast corner of the Property in the former burners (furnaces) area and were advanced to a depth of approximately 12 feet.

- Boring B-12 was located approximately 55 feet to the northeast of boring B-6 (January 20, 2017).
- Borings B-13, B-14, and B-15 were located to the northeast with approximate 25-foot intervals between borings. Note Borings B-14 and B-15 were moved approximately 10 feet to the east of the proposed boring locations due to refusal at the proposed locations.

Soil was continuously cored for lithologic logging and monitored using an organic vapor meter (OVM) for indications of contamination. The soil cores were logged by ERAS geologist Greg Munsell.

Well Installation - The soil boring EW-1 was drilled with a ten-inch auger for the installation of a four-inch diameter extraction well to a depth of approximately 24 feet bgs. The well was constructed of 4-inch inside diameter schedule 40 polyvinyl chloride (PVC) pipe. The screened interval was completed with 0.010-inch slots from 6 feet to 24 feet bgs, with a one-foot bentonite seal from 5 to 6 feet. The remaining annulus was grouted with neat cement to the ground surface and the top-of-casing was secured with a waterproof, locking cap. The wellhead was finished with a flush-mounted, traffic-rated, waterproof well vault surrounded by concrete. Well completion details are included on boring log for EW-1 in **Appendix C**.

Following well installation, the well was developed by surging with a 3-inch diameter bailer and water pumped from the well for temporary storage in 55-gallon drums. After removal of approximately 300 gallons of groundwater, the well was sampled for laboratory analysis. A Department of Water Resources Well Completion Report is included in **Appendix E**. Well development, and groundwater sampling data are included as **Appendix F**.

Well Elevation Survey - The well was surveyed by CSS Environmental, Inc. of Novato on September 19, 2017 for elevation of the top of casing with respect to mean sea level (MSL), and for horizontal position in latitude, and longitude to the specifications of the California Geotracker Internet Database. The well was located at latitude 37.7825282, longitude - 122.2387249, and at an elevation of 15.99 feet above MSL. The surveyor's report is included in **Appendix E**. Results of the survey were uploaded to Geotracker. The upload confirmation forms are included in **Appendix E**.

Subsurface Lithology - The subsurface lithology encountered consisted of fill including brick, concrete rubble, and gravel to a depth of 1-7 feet bgs which was underlain by silty clay to a depth of 14.5-15 feet bgs. The groundwater bearing zone consisted of a thin silty sand or clayey silt zone at 14.5-15 feet bgs underlain by stiff silty clay. Details of subsurface conditions are provided in the soil boring logs in **Appendix C**.

No evidence of petroleum hydrocarbon impact was observed in the form of strong odors, discoloration or elevated OVM readings in borings B-8, B-9, B-12, B-13, B-14, B-15, and EW-1. Borings B-10, B-11, and B-16 all yielded some limited evidence of petroleum hydrocarbons in the form of positive low PID readings (B-10: 3.2 to 10.4 units; B-11: 2.7 units; B-16 2.1 to 11.1 units), odor (B-11: minor; B-16: mild to slight) and discoloration (B-16: very dark greenish gray vs. yellowish brown).

A soil sample was collected from the depth ranges of 0-5 feet and 5-10 feet bgs from each boring. Groundwater samples were collected from borings B-8, B-9, B-11, and EW-1. No groundwater samples were collected from Borings B-12 through B-15 since these borings were drilled to check for surface spillage from the former burners and were not drilled down to the depth of the saturated zone. The saturated zone was not encountered in Boring B-10. Boring B-16 did not yield enough water to collect a sample despite the targeted zone being wet.

The soil and groundwater samples were kept chilled pending transport under chain-of-custody procedures to a California certified environmental analytical laboratory.

Soil cuttings, decontamination water and purged groundwater were stored temporarily at the subject site in 55-gallon drums pending disposal at an appropriate facility.

3.3 ANALYTICAL RESULTS

Soil samples were analyzed for the following.

- TPH-gro, TPH-dro, and TPH-oro by EPA Method 8015
- VOCs including naphthalene by EPA Method 8260B
- SVOCs by EPA Method 8270
- PAHs by SIM Mode.
- Samples for TPH-dro, and TPH-oro were analyzed with and without silica gel cleanup.

Groundwater samples were analyzed for the following.

- TPH-gro, TPH-dro, and TPH-oro by EPA Method 8015
- VOCs including naphthalene by EPA Method 8260B.
- SVOCs by EPA Method 8270C.

Note the results of soil analyses are summarized on **Table 1**, the results of groundwater analyses are summarized on **Table 2**.

Soil

TPH-gro - No concentrations of TPH-gro were detected at concentrations exceeding the Tier 1 ESLs.

TPH-dro - In the samples from 3.5-4 feet bgs, concentrations of TPH-dro ranged between 1.0 mg/Kg to 230 mg/Kg with silica gel cleanup (SGC) and 0.86 mg/Kg to 270 mg/Kg without SGC. In samples from 7.5-8 feet bgs concentrations ranged between 0.93 mg/Kg to 69 mg/Kg with SGC and 1.5 to 87 mg/Kg without SGC. The extent of TPH-dro in soil in the depth interval of 3.5-10 feet is shown on **Figure 3** with the results of the samples shown in "with" and "without" SGC.

TPH-oro - In samples analyzed at 3.5-4 feet bgs concentrations of TPH-oro ranged between 2.8 mg/Kg to 3,130 mg/Kg with SGC and 5.5 mg/Kg to 4,670 mg/Kg without SGC. In samples analyzed at 7.5-8 feet bgs concentrations of TPH-oro ranged from 7 mg/Kg to 430 mg/Kg with SGC and 5.2 mg/Kg to 640 mg/Kg without SGC. Note that none of the samples collected contained TPH-oro above the ESL. The extent of TPH-oro in soil in the depth interval of 3.5-10 feet is shown on **Figure 4** with the results of the samples shown in "with" and "without" SGC.

VOCs - Concentrations of 1,2-Dibromo-3-chloropropane were detected in the 3.5-4-foot sample from boring B-10 at 0.080 mg/Kg, and in the 3.5-4-foot sample from boring B-11 at concentration 0.0076 mg/Kg, above the ESL of 0.0045 mg/Kg. Naphthalene was detected in the 7.5-8-foot sample from boring B-7 at 2.0 mg/Kg, above the ESL of 0.033 mg/Kg. A concentration of 2-methylnaphthalene was detected in this sample at 8.3 mg/Kg, above the ESL of 0.25 mg/Kg. Note this boring (B-7) is located at the Property and railroad line boundary. Based on the lack of concentrations of these constituents in soil and groundwater samples from

borings within the former UST area, a source at the rail line cannot be ruled out at this time.

SVOCs – at a depth of 3.5-4 feet bgs benzo(a)anthracene was detected in boring B-4 at 0.57 mg/Kg, in B-11 at 0.2 mg/Kg and B-16 at 0.23 mg/Kg, above the ESL of 0.16 mg/Kg. At 7.5-8 feet bgs B-7 yielded a concentration of 0.5 mg/Kg and B-8 yielded a concentration of 0.25 mg/Kg.

At a depth of 3.5-4 feet bgs benzo(a)pyrene was detected in boring B-4 at 0.77 mg/Kg, in B-10 at 0.016 mg/Kg, in B-11 at 0.43 mg/Kg and in B-16 at 0.19 mg/Kg, above the ESL of 0.016 mg/Kg. At a depth of 7.5-8 feet bgs, only B-8 (0.091 mg/Kg) yielded benzo(a)pyrene above the ESL.

At a depth of 3.5-4 feet bgs benzo(b)fluoranthene was detected in boring B-4 at 0.57 mg/Kg, in B-11 at 0.2 mg/Kg and in B-16 at 0.19 mg/Kg, above the ESL of 0.16 mg/Kg. At a depth of 7.5-8 feet bgs, only B-7 (0.5 mg/Kg) yielded benzo(b)fluoranthene above the ESL.

Groundwater

No concentrations of TPH-gro were detected above the MDL in the groundwater samples collected during this investigation.

Note groundwater was only encountered in Borings B-8, B-9, B-11 and EW-1.

TPH-dro – TPH-dro analyzed without SGC, was detected in Boring B-8 at a concentration of 110 µg/L above the ESL of 100 µg/L. Without SGC concentrations ranged from 160 µg/L in B-8 to 1,700 µg/L in B-11. The extent of TPH-dro in groundwater is shown on **Figure 5**.

TPH-oro – TPH-oro analyzed without SGC, was detected in Boring B-8 at a concentration of 710 µg/L and in B-11 above the ESL of 100 µg/L. Without SGC concentrations ranged from 350 µg/L in EW-1 to 1,900 µg/L in B-11. The extent of TPH-oro in groundwater is shown on **Figure 6**.

VOCs – The only VOC detected above the ESL was hexachloroethane in boring B-9 at 0.44 µg/L which exceeds the current ESL of 0.33 µg/L.

SVOCs -

Bis(2-chloroisopropyl)ether was detected in borings B-8 and B-9 above the ESL of 0.36 µg/L at concentrations of 0.50 and 0.60 µg/L, respectively.

2-4-dinitrotoluene was detected in borings B-8, B-9 and B-11 above the ESL of 0.24 µg/L at concentrations from 0.24 to 0.54 µg/L.

Benzo(a)anthracene was detected in borings B-8, B-9, B-11 and EW-1 above the ESL of 0.027 µg/L at concentrations from 0.25 to 0.97 µg/L.

Benzo(a)pyrene was detected in boring B-9 above the ESL of 0.014 µg/L at a concentration of 0.22 µg/L.

Benzo(b)fluoranthene was detected in borings B-8 and B-9 above the ESL of 0.012 µg/L at concentrations of 0.24 to 0.54 µg/L, respectively.

Benzo(g,h,i) perylene was detected in borings B-8 and B-9, above the ESL of 0.1 µg/L at concentrations of 0.49 to 0.24 µg/L, respectively.

Chrysene was detected in borings B-8 and B-9 above the ESL of 0.049 µg/L at concentrations of 0.69 to 0.32 µg/L, respectively.

4.0 UPDATED CONCEPTUAL SITE MODEL

A summary of the current conceptual site model, based on the subsurface investigations, is included on **Table 3**.

4.1 HYDROGEOLOGIC SETTING

The following narrative reflects the update to the CSM. A more complete summary is provided in the updated SCM **Table 3**.

CSM Element: Geology and Hydrogeology; CSM Sub-Element: Site; Description: **Geology**: The subsurface of the Property contains approximately 1-8 feet of fill that includes brick and rubble. Native sediment beneath the fill consists of silty clay underlain by the water bearing zone which consisted of silt and silty sand in a layer approximately 1-2 feet thick. Silty clay extends to a depth of at least 24 feet.

CSM Element: Geology and Hydrogeology; CSM Sub-Element: Site; Description: **Hydrogeology**: Groundwater at the Property is likely contained in thin sand stringers within the silty clay. Groundwater has been encountered at depths of approximately 3-11 feet in the former UST area and may comprise perched groundwater. The shallow groundwater zone is located at depths of approximately at depths of approximately 11-18 feet. The zone appears to be somewhat discontinuous as it was missing in B-10. Boring B-16 did not yield enough water to sample despite the targeted zone being wet. The main shallow water-bearing zone appears to be in thin clayey sand, sand, clayey silt, and, silty sand units interbedded within clay.

Groundwater is generally under water-table conditions, but may be locally confined by clay in the upper portion of the water-bearing zone. The base of the shallow water bearing zone appears to be approximately 14 feet bgs and is underlain by a stiff clay which extends to at least 24 feet bgs.

4.2 SUMMARY OF EXTENT OF CONTAMINATION

The previous historical subsurface investigations indicated the main source of contamination is in or very near the former fuel oil USTs. Because of the high concentrations of petroleum hydrocarbons in this area, a groundwater extraction well was installed to remove the secondary source of contamination. Approximately 300 gallons of groundwater was pumped from the extraction well and a sample of groundwater contained concentrations of petroleum hydrocarbons approximately 2 orders of magnitude less than the concentrations in the initial

borings drilled in this area in 2015.

Another potential source of contamination were the former furnaces that may have been fueled from the nearby fuel oil USTs. Results of soil samples from these areas (Borings B-12 through B-15) did not indicate the presence of concentrations of contaminants above ESLs. The furnaces are not considered a source of contamination.

Soil

Petroleum hydrocarbons have been detected at high concentrations in or near the source area of the former fuel oil USTs. The extent of TPH-dro has been characterized to at or near ESLs. The primary exception is that at B-7 - northeast of the source - the extent of contamination above the ESL of 100 mg/kg is not known and it is not technically feasible to continue exploration in this direction under the railroad operated by Southern Pacific. The basis for the lack of technical feasibility is twofold: (i) most railroad companies are strongly resistant to covenants requiring access to rail road parcels; and (ii) any lateral extent characterization under railroads would be complicated by potential comingling of contaminants from the railroad use history.

Moreover, the gradient for groundwater is estimated to be to westerly and the hydrocarbons detected in B-7 are unlikely to migrate a great distance onto the parcel to the north based on the attenuations observed in the directions to the northwest, west, southwest and south.

TPH-oro has not been detected in soil samples above ESLs.

VOCs (naphthalene and 2-methylnaphthalene) were detected in one soil sample at 5-10 feet and appears to be limited in extent on the Property.

Shallow soil on the Property appears to have been impacted by phenol and a few other SVOCs at concentrations above ESLs. The widespread distribution of these at similar concentrations with little evidence of attenuation from a potential source indicates the source of these is incidental spillage from storage of chemicals or from the fill that has been placed on the Property and are not likely associated with a release from the former USTs. This is also supported by the lack of positive SVOC results above the ESLs in the soil samples collected at EW-1 (in the heart of the presumed source).

Groundwater

Based on the results of this investigation the bulk of the petroleum hydrocarbon contamination which exceeds the ESLs appears to be limited to the area of the former UST and nearby area along the railroad line. Approximately 300 gallons of groundwater was removed from the source area by pumping from extraction well EW-1. The extent of the contamination in groundwater has been mostly adequately characterized except for the groundwater in B-8 and B-11. The extent of TPH-dro and TPH-oro in groundwater is shown on **Figures 5 and 6**, respectively.

The extent of volatile constituents in groundwater appears to be limited. Naphthalene was detected only in B-7. Boring B-7 also contained naphthalene in the soil.

Groundwater from the borings that were sampled and analyzed for SVOCs indicated the presence of several constituents above the ESL, however these detections were scattered over a wide area at locations away from the former USTs and may represent background concentrations from incidental spillage from storage of chemicals or from the fill that has been placed on the Property and are not likely associated with a release from the former USTs.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the investigations, the highest concentrations of TPH-dro & TPH-oro in soil and groundwater are centered in the area of B-3 in the area of the former USTs and attenuate rapidly away from this location. Based on EW-1 groundwater sample results, contaminated groundwater that was encountered in the source area in 2014 appears to have been remediated and much lower concentrations currently remain.

The bulk of the TPH contamination associated with the former USTs is limited in extent and has been sufficiently characterized in the down-gradient direction. The widespread distribution of various other contaminants of concern at similar concentrations suggests a non-point-source for these contaminants of concern. It is possible, based on construction debris waste observed in some of the borings, that the source of contaminants may be the historic fill. This conclusion is supported by the fact that the frequency of positive results for SVOCs is correlated with the thickest observed layers of construction debris as shown in the boring logs for B-7 and B-8. Both the groundwater and soil detection frequencies are associated positively with B-7 and B-8. Therefore, it is reasonable to conclude that the fill that has been placed on the Property is a likely non-point source for SVOCs and is not associated with a release from the former USTs.

Based on the current site use, the location of the site in an historic industrial area between the Southern Pacific Railroad and Highway 880 and the widespread distribution of contaminants in fill material, further investigation does not appear warranted. The area of the Property is not likely to use groundwater for drinking water.

ERAS recommends that this site be considered for low threat case closure and that ACDEH be consulted for the best path forward to this end. Moreover, based on the technical obstacles to the southwest and northeast of the Property, ERAS recommends that further characterization under the railroad lines or under the Nimitz Freeway (I-880) not be undertaken.

6.0 REFERENCES

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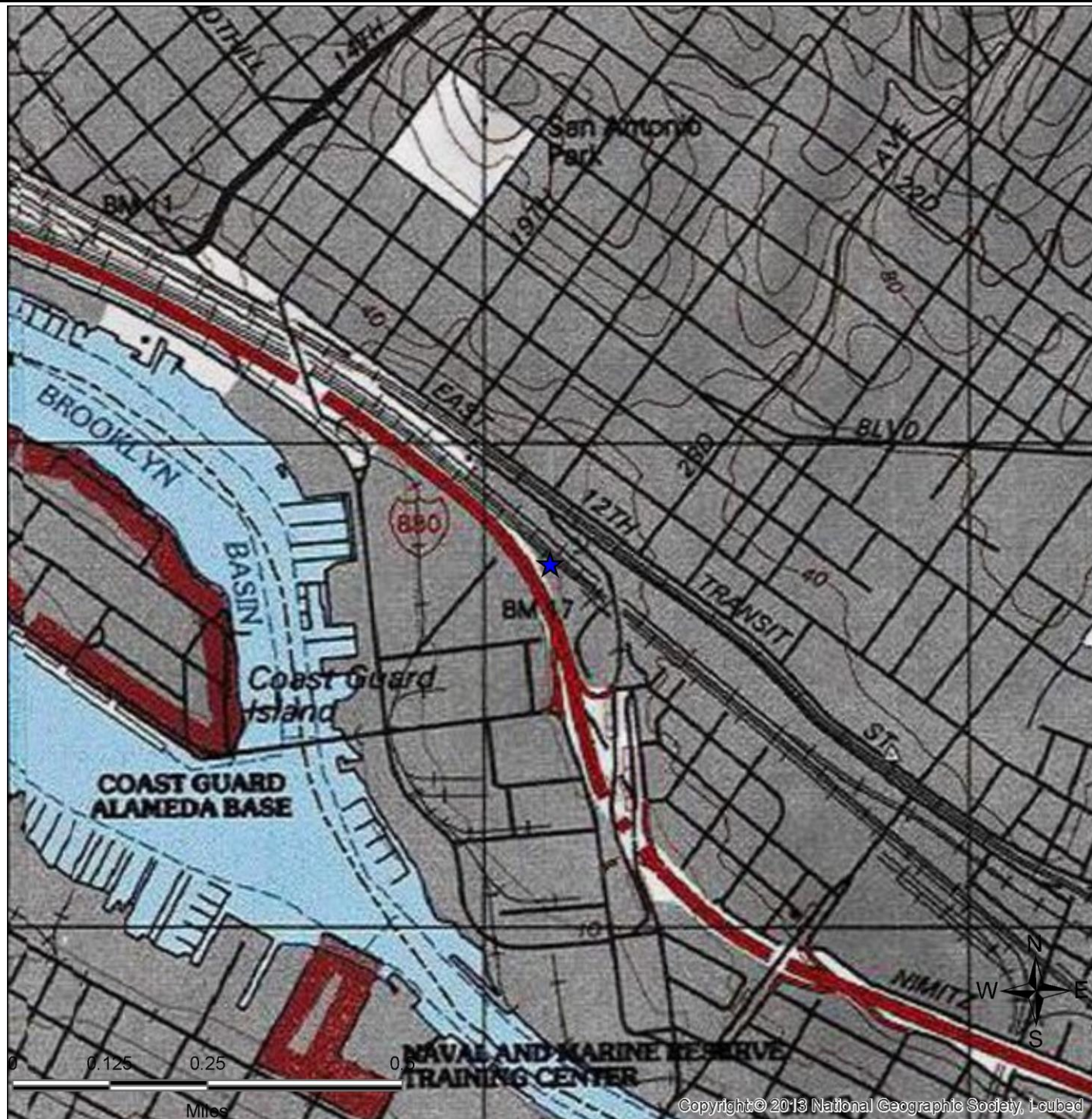
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Goldman, Harold B., Geology of San Francisco Bay prepared for San Francisco Bay Conservation and Development Commission, February 1967.

Helley, E.J., La Joie, K.R., Spangle, W.E., and Blair, M.L., Flatland Deposits of the Burlingame Bay Region, California - their geology and engineering properties and their importance to comprehensive planning, U.S. Geological Survey Professional Paper 943, 1974.

FIGURES



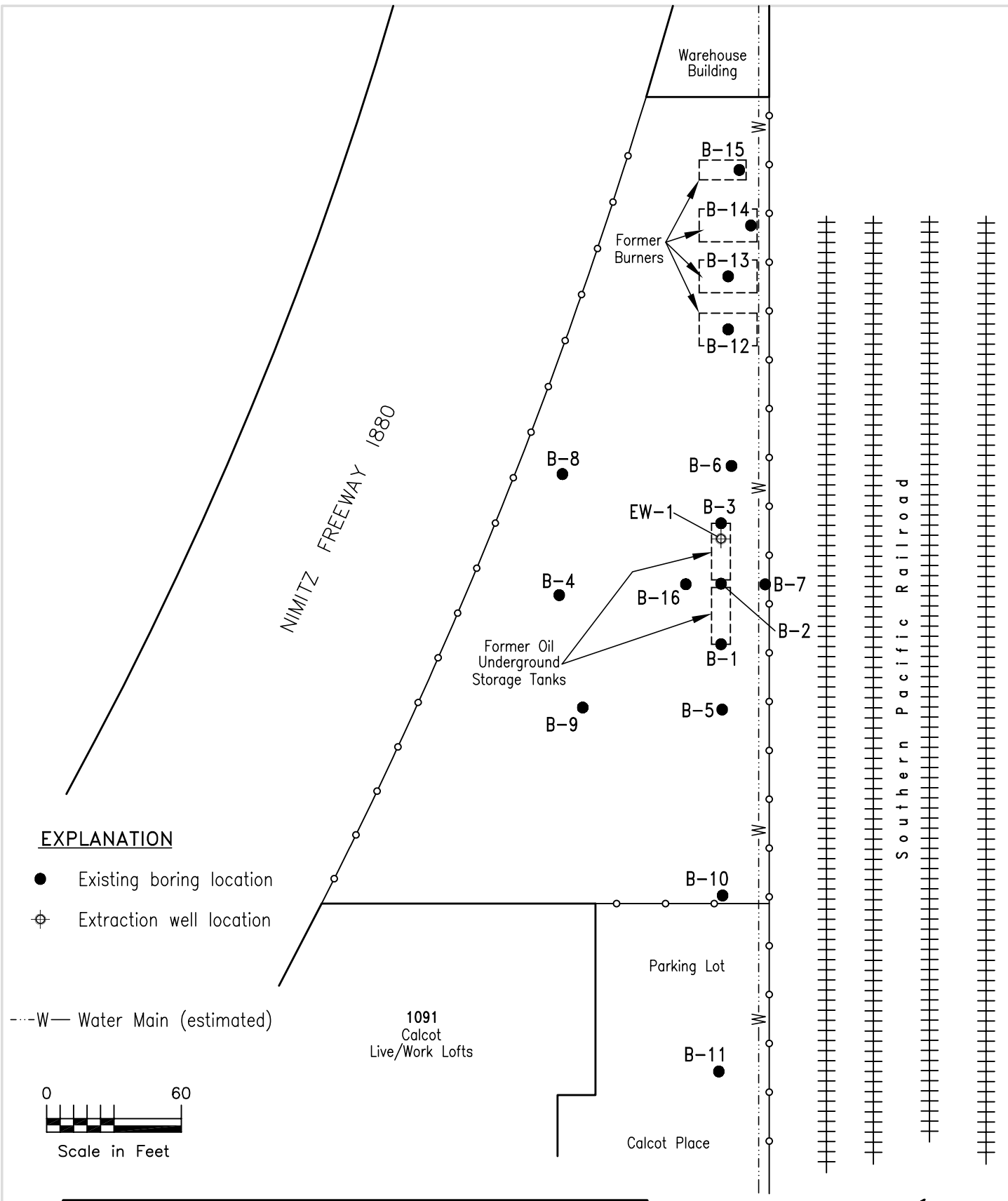
SITE LOCATION TOPOGRAPHIC MAP

U.S. Geological Survey. Oakland East Quadrangle, 7.5 Minute Series

ERAS Environmental, Inc.

1091 Calcot Pl.
Oakland, CA

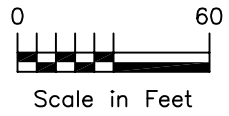
FIGURE: 1
JOB:
DATE: 10/20/2014



EXPLANATION

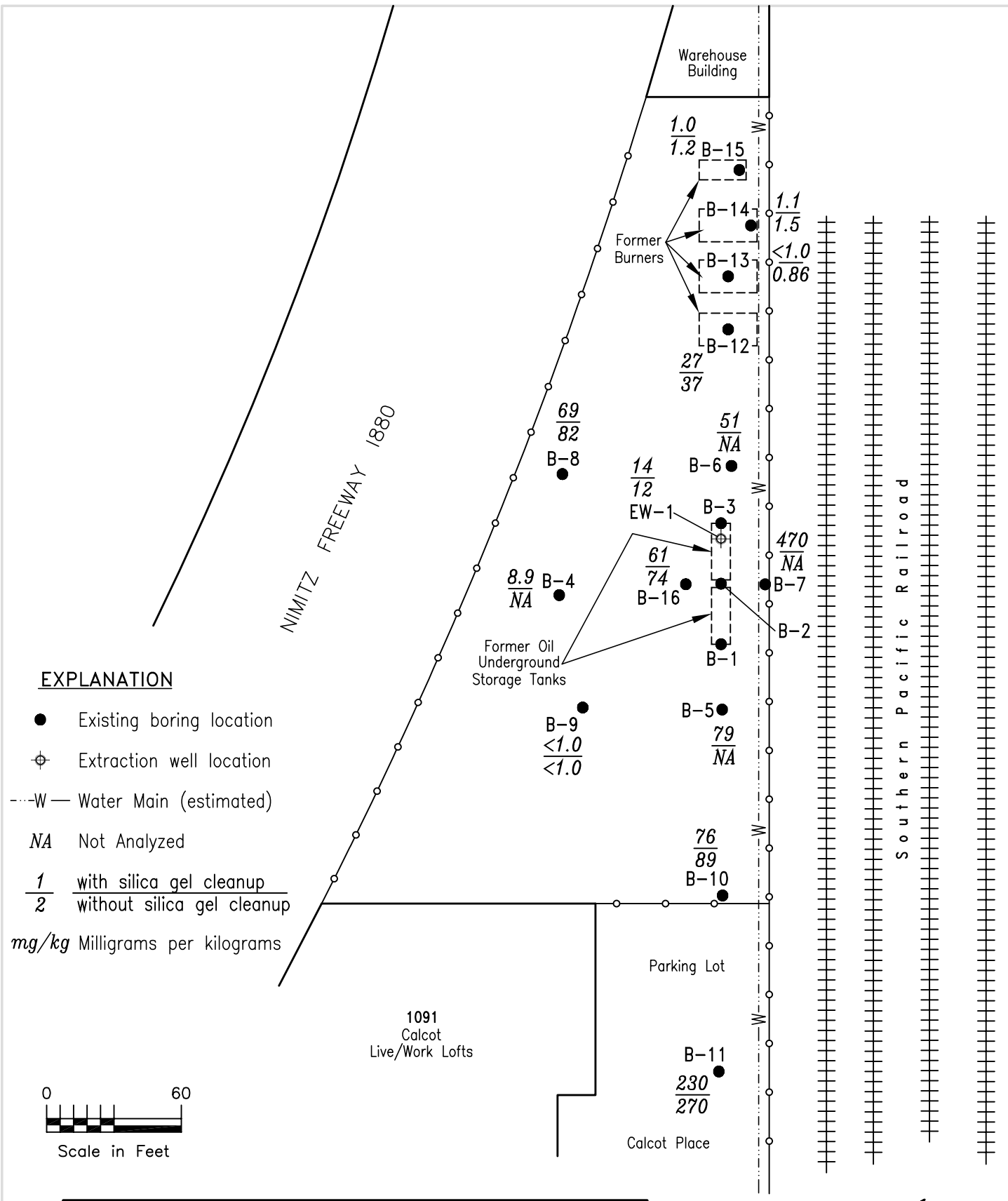
- Existing boring location
- ⊕ Extraction well location

---W--- Water Main (estimated)

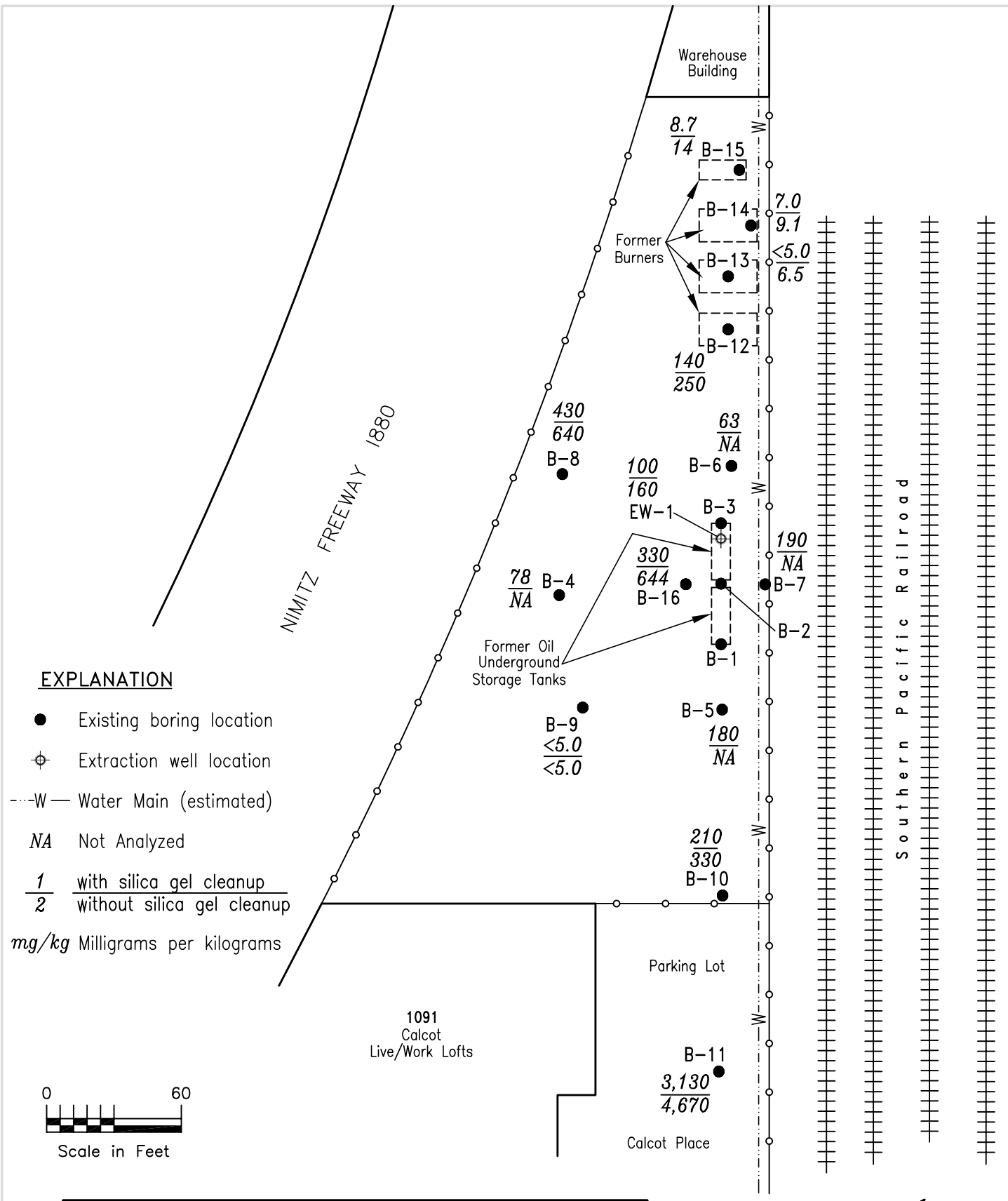


BORING LOCATION MAP **FIGURE 2**
 Project No. 16-005-02
 1091 Calcot Place
 Oakland, CA
 August, 2017
 Scale 1"=60'

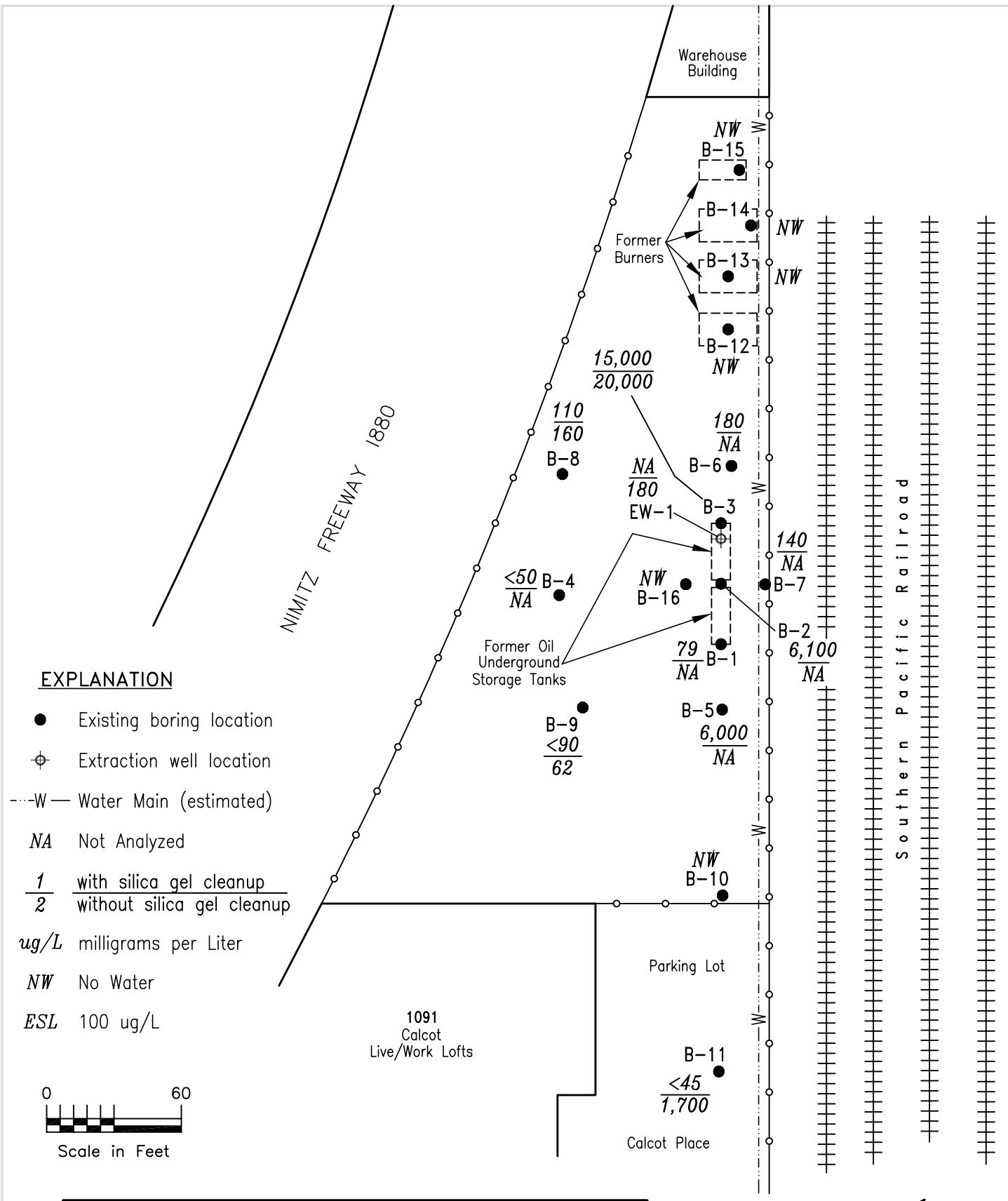




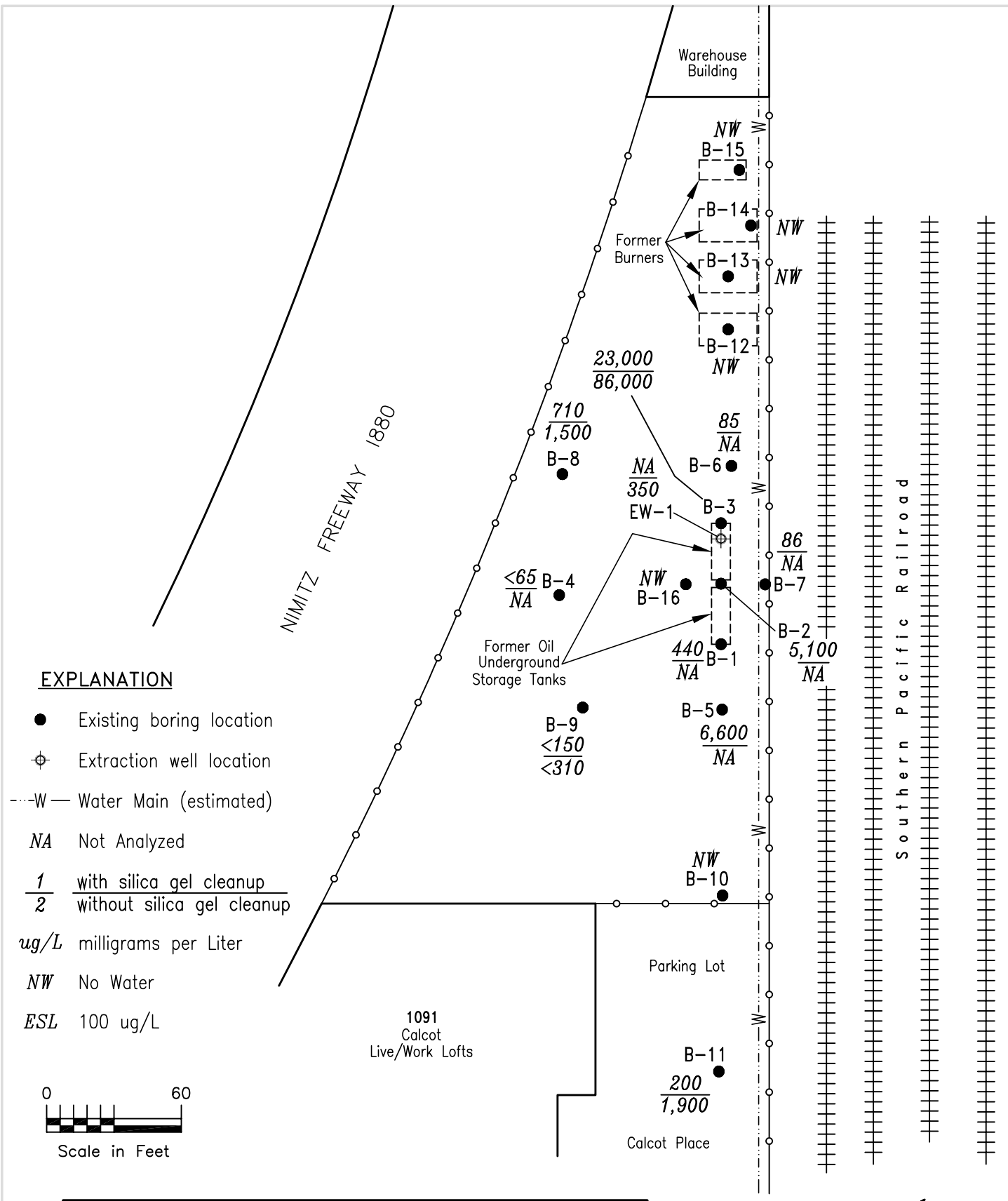
TPH-dro in Soil (3.5'-10' bgs) **FIGURE 3**
 Project No. 16-005-02
 1091 Calcot Place
 Oakland, CA
 October, 2017
 Scale 1"=60'



TPH-oro in Soil (3.5'-10' bgs) **FIGURE 4**
 Project No. 16-005-02
 1091 Calcot Place
 Oakland, CA
 October, 2017
 Scale 1"=60'



TPH-dro in GW (3.5'-10' bgs) **FIGURE 5**
 Project No. 16-005-02
 1091 Calcot Place
 Oakland, CA
 October, 2017
 Scale 1"=60'



TPH-oro in GW (3.5'-10' bgs) **FIGURE 6**
 Project No. 16-005-02
 1091 Calcot Place
 Oakland, CA October, 2017
 Scale 1"=60'

TABLES

TABLE 1. ANALYTICAL RESULTS - SOIL (mg/Kg)

1091 Calcot Place, Oakland

Sample ID	Date	TPH-gro	TPH-dro SGC	TPH-dro*	TPH-oro SGC	TPH-oro*	1,2-DB- 3-CP	Naph thalene ^a	MTBE	sec-Butyl- benzene	IPB	4-IPT	2-Methyl Naphthalene ^a	Phenol	Fluorene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	1-Methyl Naphthalene	2-Methyl Naphthalene ^b	Naph thalene ^b	Phen- anthrene	Pyrene
(mg/Kg)																							
B-4, 3-3.5	20-Jan-16	<1.0	8.9	NA	78	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<10	<10	<10	0.57	0.77	0.57	<0.020	<0.020	<0.020	0.36	0.84
B-4 9.5-10	20-Jan-16	<1.0	<0.74	NA	3.0 J	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.25	<0.25	<0.25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
B-5, 3.5-4	20-Jan-16	<1.0	<0.74	NA	5.4	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.25	0.59	<0.25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
B-5, 7.5-8	20-Jan-16	3.1	79	NA	180	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<2.0	<2.0	<2.0	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.029
B-6, 3.5-4	20-Jan-16	<1.0	<0.74	NA	3.6 J	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.25	0.30	<0.25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
B-6, 7.5-8	20-Jan-16	3.9	51	NA	63	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.25	<0.25	<0.25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.037
B-7, 3.5-4	20-Jan-16	<1.0	<0.74	NA	2.8 J	NA	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.25	0.53	<0.25	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
B-7, 7.5-8	20-Jan-16	430	470	NA	190	NA	<0.0040	2.0	<0.10	0.35	0.76	0.12	8.3	<1.2	1.3	0.50	<0.50	0.50	3.0	7.5	0.50	0.58	<0.50
B-8, 3.5-4	30-Aug-17	<0.70	6.4	12	93	180	<0.0040	0.0093	<0.0036	<0.0095	<0.0061	<0.0087	<11	<9.6	<0.060	0.089 J	0.056 J	0.084 J	<0.029	<0.020	<0.016	0.043 J	0.10
B-8, 7.5-8	30-Aug-17	<0.77	69	82	430	640	<0.0040	<0.0018	<0.0040	<0.010	<0.0068	<0.0095	<11	<9.6	<0.12	0.25	0.091 J	0.15 J	<0.058	<0.040	<0.032	0.27	0.40
B-9, 3.5-4	30-Aug-17	<0.40	<1.0	<0.86	<5.0	<3.5	<0.0040	<0.00097	<0.0021	<0.0055	<0.0036	<0.0050	<0.14	<0.12	<0.0060	0.0058 J	<0.0027	<0.0015	<0.0029	<0.0020	0.0016 J	<0.0035	<0.0045
B-9, 7.5-8	30-Aug-17	<0.40	<1.0	<1.0	<5.0	<5.0	<0.0040	<0.0014	<0.0029	<0.0077	<0.0050	<0.0070	<0.14	<0.12	<0.0060	0.006 J	<0.0027	<0.0015	<0.0029	<0.0020	0.0017 J	<0.0035	<0.0045
B-10, 3.5-4	30-Aug-17	<0.46	76	89	210	330	0.080	0.0064	<0.0024	<0.0063	<0.0041	<0.0057	<5.6	<4.8	<0.05	0.042 J	0.016 J	<0.0075	<0.014	<0.010	<0.0080	<0.018	<0.022
B-10, 7.5-8	30-Aug-17	<0.42	74	87	82	110	<0.0040	<0.0036	<0.0022	<0.0057	<0.0037	<0.0052	<1.1	<0.96	<0.012	0.014 J	0.0083 J	0.012 J	<0.0058	0.0044 J	<0.0032	<0.0070	<0.0090
B-11, 3.5-4	30-Aug-17	0.70	230	270	3,130	4,670	0.0076 J	<0.0015	<0.0032	<0.0083	<0.0053	<0.0075	<11	<9.6	<0.30	0.2 J	0.43 J	0.2 J	<0.15	<0.10	<0.080	<0.18	<0.23
B-11, 7.5-8	30-Aug-17	<0.41	2.8	6.1	56	100	<0.0020	<0.00098	<0.0021	<0.0056	<0.0036	<0.0051	<5.6	<4.8	<0.030	0.049 J	<0.014	0.0093 J	<0.014	<0.010	<0.0080	<0.018	<0.022
B-12, 3.5-4	31-Aug-17	<0.45	2.3	1	6	5.5	<0.0022	<0.0011	<0.0023	<0.0061	<0.0040	<0.0056	<1.1	<0.96	<0.0060	<0.0017	<0.0027	0.0020 J	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-12, 7.5-8	31-Aug-17	<0.42	27	37	140	250	<0.0020	<0.0010	<0.0022	<0.0057	<0.0037	<0.0052	<5.6	<4.8	<0.0060	0.0043 J	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-13, 3.5-4	31-Aug-17	<0.41	<1.0	0.86	<5.0	6.5	<0.0019	<0.00097	<0.0021	<0.0055	<0.0036	<0.0050	<0.14	<0.12	<0.0060	<0.0017	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-13, 7.5-8	31-Aug-17	<0.43	<1.0	<1.0	<5.0	<5.0	<0.0021	<0.0010	<0.0023	<0.0059	<0.0038	<0.0054	<0.14	<0.12	<0.0060	<0.0017	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-14, 3.5-4	31-Aug-17	<0.45	<1.0	<1.0	<5.0	<5.0	<0.0022	<0.0011	<0.0024	<0.0062	<0.0040	<0.0056	<0.14	<0.12	<0.0060	<0.0017	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-14, 7.5-8	31-Aug-17	<0.52	1.1	1.5	7	9.1	<0.0025	<0.0012	<0.0027	<0.0070	<0.0045	<0.0064	<0.14	<0.12	<0.0060	0.0054 J	<0.0027	0.0025 J	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-15, 3.5-4	31-Aug-17	<0.54	1	1.2	8.7	14	<0.0026	<0.0013	<0.0028	<0.0074	<0.0048	<0.0068	<0.14	<0.12	<0.0060	<0.0017	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-15, 7.5-8	31-Aug-17	<0.49	<1.0	<1.0	<5.0	5.2	<0.0023	<0.0012	<0.0025	<0.0066	<0.0043	<0.0060	<0.14	<0.12	<0.0060	<0.0017	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
B-16, 3.5-4	31-Aug-17	<0.42	61	74	330	644	<0.0020	<0.0010	<0.0022	<0.0057	<0.0037	<0.0052	<0.14	<9.6	<0.060	0.23	0.19	0.19	<0.029	<0.020	<0.016	<0.068 J	0.37
B-16, 7.5-8	31-Aug-17	<0.41	0.93	<1.0	4.1	5.4	<0.0020	<0.00098	<0.0021	<0.0056	<0.0036	<0.0051	<0.14	<0.12	<0.0060	<0.0017	<0.0027	<0.0015	<0.0029	<0.0020	<0.0016	<0.0035	<0.0045
EW-1, 3.5-4	31-Aug-17	<0.72	5.9	7.9	58	110	0.0034	0.0019 J	<0.0037	<0.0097	<0.0063	<0.0089	<5.6	<4.8	<0.060	0.10	0.051 J	0.072 J	<0.029	<0.020	<0.016	0.092 J	0.14
EW-1, 7.5-8	31-Aug-17	<0.47	14	12	100	160	<0.0022	<0.0011	<0.0024	<0.0063	<0.0041	<0.0058	<2.2	<1.9	<0.012	0.015 J	0.0075 J	0.0096 J	<0.0058	<0.0040	<0.0032	<0.0070	<0.0090
Tier 1 ESL		100	230	230	5100	5100	0.0045	0.033	0.023	np	np	np	0.25	0.076	8.9	0.16	0.016	0.16	np	0.25	0.033	11	85

Notes

Analytes displayed are those that were detected above the the ESL (and above the reporting limit or were estimated below the RL) in one or more samples. Samples detected but not above the ESL are not presented herein - see lab report for full

analytical presentation

NA = Not Analyzed

(mg/Kg) = Milligrams per kilogram

< numeric value = not reported above the laboratory reporting limit indicated

J indicates an estimated value above the MDL and below the RL

MDL = method detection limit RL = Reporting Limit

TPH-gro = Total petroleum hydrocarbons quantified as gasoline range organics

TPH-dro = Total petroleum hydrocarbons quantified as diesel range organics

TPH-oro = Total petroleum hydrocarbons quantified as oil range organics

SGC = analysis performed using silica gel cleanup

1,2-DB-3-CP = 1,2-dibromo-3-chloropropane

TABLE 2. ANALYTICAL RESULTS - GROUNDWATER

1091 Calcot Place, Oakland

Sample ID	Date	TPH-gro	TPH-dro	TPH-dro	TPH-oro	TPH-oro	VOCs	2,4-Dinitrotoluene	bis(2-chloroisopropyl)ether	pentachlorophenol	benzo(a)anthracene	benzo(a)pyrene	benzo(b)fluoranthene	benzo(g,h,i)perylene	chrysene
		SGC			SGC										
B-1	23-Dec-14	NA	79	NA	440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-2	23-Dec-14	NA	6,100	NA	5,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-3	23-Dec-14	NA	15,000	20,000	23,000	86,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-4	20-Jan-16	<50	<50	NA	<65	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
B-5	20-Jan-16	<50	6,000	NA	6,600	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
B-6	20-Jan-16	<50	180	NA	85 J	NA	BESL	NA	NA	NA	NA	NA	NA	NA	NA
B-7	20-Jan-16	<50	140	NA	86 J	NA	1.4¹	NA	NA	NA	NA	NA	NA	NA	NA
B-8	30-Aug-17	<50	110	160	710	1,500	BESL	0.54	0.5	<17(0.83)	0.97	<3.3(0.28)	0.56	0.49	0.69
B-9	30-Aug-17	<50	62	<100	<250(150)	<500(310)	0.44#	0.3	0.6	0.83 J	0.49	0.22	0.33	0.24	0.32
B-11	30-Aug-17	<50	<50	1,700	200	1,900	BESL	0.24	<2.4 (0.34)	1.2	0.30	<2.4(0.21)	<2.4(0.19)	<2.4(0.22)	<2.4(0.22)
EW-1	31-Aug-17	<50	NA	180	NA	350	BESL	<0.16	<1.9/(0.27)	<9.5 (0.48)	0.25	<1.9(0.16)	<1.9(0.15)	<1.9(0.17)	<1.9(0.17)
ESL		100	100	100	100	100		0.24	0.36	1.0	0.027	0.014	0.012	0.10	0.049

Notes

NA = Not analyzed ND = Below laboratory detection limits
 VOCs = Volatile organic compounds BESL = All concentrations detected were below the ESL
 (µg/L) = micrograms per liter
 TPH-gro = Total petroleum hydrocarbons quantified as gasoline range organics
 TPH-dro = Total petroleum hydrocarbons quantified as diesel range organics
 TPH-oro = Total petroleum hydrocarbons quantified as oil range organics
 SGC = analysis performed using silica gel cleanup
 MDL = Laboratory method detection limit RL = Reporting Limit
¹ Naphthalene concentration was detected at 1.4 µg/L (ESL 0.17 µg/L)
 # Sample contained hexachloroethane at 0.44 µg/L (ESL 0.33 µg/L)
 ESL = Tier 1 Environmental Screening Limit (2016)
Bold face type indicates reported value above the ESL
 < symbol indicates analyte was not detected above the reporting limit for the analyte

**TABLE 3 - CONCEPTUAL SITE MODEL
1091 Calcot Place, Oakland**

CSM Element	CSM Sub-Element	Description	Potential Data Gap(s)
Geology and Hydrogeology	Regional	The Property is in the southern part of the City of Oakland in the San Francisco Bay area. The San Francisco Bay area occupies a broad alluvial valley that slopes gently northward and is flanked by alluvial fans deposited at the foot of the Diablo Range to the east and the Santa Cruz Mountains to the west. Surface topography in the immediate vicinity of the Property is gently sloping down to the northwest towards Airport Channel. The Property is at an elevation of approximately 15 feet above Mean Sea Level according to the United States Geological Survey (USGS) Oakland East Quadrangle California 7.5 Minute Series topographic map. Materials underlying the site are unconsolidated deposits of near shore and beach sediments, deposited in Oakland Bay at higher sea level stands. At shallow depths beneath these sediments are chert, greywacke, serpentine and shale bedrock that are a part of the Cretaceous to Jurassic-aged Franciscan Formation. Bedrock is exposed to the east-northeast on the upland surfaces. The subject site is located on the San Francisco Bay Plain in the northernmost part of the Santa Clara Valley Groundwater Basin, (DWR, 1967), the surface of which slopes gently down toward west. The regional groundwater flow follows the topography, moving from areas of higher elevation to areas of lower elevation. The regional groundwater flow direction in the area of the Property is estimated to be toward the west toward the Brooklyn Basin.	None
	Site	Geology: The subsurface of the Property contains approximately 1-8 feet of fill that includes brick and rubble. Native sediment beneath the fill consists of silty clay underlain by the water bearing zone which consisted of silt and silty sand in a layer approximately 1-2 feet thick. Silty clay extends to a depth of at least 24 feet.	None
		Hydrogeology: Groundwater at the Property is likely contained in thin sand stringers within the silty clay. Groundwater has been encountered at depths of approximately 3-11 feet in the former UST area and may comprise perched groundwater. The shallow groundwater zone is located at depths of approximately 11-18 feet. The zone appears to be somewhat discontinuous as it was missing in B-10 and B-16.	None
Surface Water Bodies	--	The closest surface water bodies are the Brooklyn Basin, a portion of San Francisco Bay which was located approximately 1/4 of a mile to the west of the Property.	None
Nearby Wells	--	A well survey was performed that identified a single water supply well located approximately 3,200 feet to the southeast.	None
CSM Element	CSM Sub-Element	Description	Potential Data Gap(s)
Constituents of Concern	--	Constituents of concern include petroleum hydrocarbons quantified as diesel and oil range organics (TPH-dro, and TPH-oro). The highest concentrations of petroleum hydrocarbons were within or close to the former fuel oil UST area.	None
Potential Sources	On-site	The Property formerly contained two USTs used to store fuel oil that were previously investigated. Sanborn Fire Insurance Maps showed 4 furnaces located close to the northwest end of the Property.	None
		There is no record of the removal of the USTs but a geophysical survey in the area of the former USTs indicated their absence. A total of four soil borings have been drilled within the area of the former USTs.	None
CSM Element	CSM Sub-Element	Description	Potential Data Gap(s)
Nature and Extent of Environmental Impacts	Extent in Soil, TPH-dro	TPH-dro has been detected at concentrations at or above the ESL of 230 milligrams per kilogram (mg/Kg) only in two locations, in Boring B-7 close to the former USTs and rail line and in B-11, toward the southeast end of the Property.	None
	Extent in Soil, TOG/TRPH	TPH-oro was not detected in concentrations above the ESL in any of the samples collected at the Property.	None
	Extent in Soil, VOCs	VOCs appear to be minimal in magnitude and extent. Naphthalene and 2-methylnaphthalene were detected in deeper soil (5-10 feet depth interval) in Boring B-7.	None
	Extent in Soil, SVOCs	SVOCs were detected in shallow soil (0-5 foot depth interval) in borings near the former USTs (B-5, B-6 and B-7) at concentrations above the ESLs. The SVOCs included phenol, benzo(a) anthracene, benzo (a) pyrene and benzo (b) fluoranthene. SVOCs also were detected in the widely spaced borings B-4, B-10, B-11 and B-16 indicate the presence of SVOCs in shallow soil that may be the result of widespread surface spillage or from fill materials and are not likely associated with a release from the former USTs.	None
			None

TABLE 3 - CONCEPTUAL SITE MODEL
1091 Calcot Place, Oakland

	Extent in Soil, Metals	Metals detected to be present on the Property have included cadmium, chromium, lead, nickel, and zinc. None of the concentrations detected were found to be above the ESL for commercial areas where groundwater is considered a potential source of drinking water	None
Nature and Extent of Environmental Impacts	Extent in Groundwater, TPH-dro	Concentrations of TPH-dro from 6,100 to 15,000 micrograms per liter (µg/L) were detected in borings in or near the former USTs (B-2, B-3 and B-5). Concentrations outside of the general UST area were much lower and ranged from 110-180 µg/L, above the ESL of 100 µg/L.	None
	Extent in Groundwater, TOG/TRPH	Concentrations of TPH-oro from 180 to 23,000 micrograms per liter were detected in borings in or near the former USTs (B-2, B-3, B-5 and EW-1). Concentrations outside of the general UST area were much lower and ranged from 110-180 µg/L, above the ESL of 100 µg/L except in B-11 that contained 1,700 µg/L.	None
	Extent in Groundwater, VOCs and SVOCs	Groundwater sampling has indicated the presence of naphthalene in groundwater in one boring along the northeastern Property boundary. Concentrations of SVOCs for the borings for which groundwater results are available indicate concentrations of SVOCs to the southeast and southwest of the former USTs. The similar and widespread concentrations of some of the SVOCs indicate a possible regional presence of background concentrations and are not likely associated with a release from the former USTs.	None
Nature and Extent of Environmental Impacts		The extent of petroleum hydrocarbons in groundwater appears to be in the area of the former USTs and has been defined except to the southeast past B-11.	None
Migration Pathways	Potential Conduits	Based on the drilling of 16 borings on the Property, no underground sanitary sewer, water, gas, or electrical lines are located on the Property. A fire suppression line is located along the entire northeast edge of the Property.	None
Potential Receptors/Risk	On-site	Potable water at the site currently is provided via municipal supply and will continue to be in the foreseeable future. As such, direct contact to groundwater is not contemplated.	None
Potential Receptors/Risk	Off-site	A well survey indicates only one water production well is located within 3,200 feet of the Property.	None

Notes

1. ERAS Environmental, Inc. Phase 1 Environmental Site Assessment, APN 19-55-11, Oakland, California, November 6, 2014.
2. ERAS Environmental, Inc. Limited Soil and Groundwater Investigation, APN 19-55-11 on Calcot Place, Oakland, California, January 9, 2015.
3. ERAS Environmental, Inc. Limited Soil and Groundwater Investigation, 1091 Calcot Place, Oakland, California, November 7, 2017.

Abbreviations

- bgs = below ground surface
VOCs = volatile organic compounds
SVOCs = semi volatile organic compounds
TPH-dro = total petroleum hydrocarbons quantified as diesel range organics
TOG = total oil and grease
TRPH = total residual petroleum hydrocarbons
µg/L = micrograms per liter

APPENDIX A
Drilling Permit

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
—Alameda County—

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 08/24/2017 By jamesy

Permit Numbers: W2017-0662 to W2017-0663
Permits Valid from 08/29/2017 to 08/31/2017

Application Id: 1501797693796
Site Location: 1091 Calcot Place, Oakland, California
Four soil borings to 12 feet
Five soil borings to 24 feet

City of Project Site:Oakland

Project Start Date: 08/29/2017
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Completion Date:08/31/2017

Applicant: ERAS Environmental, Inc. - Gregory Munsell
1533 B Street, Hayward, CA 94541

Phone: 510-247-9885 x311

Property Owner: Robert Winet
36966 Pinto Palm Street, Rancho Mirage, CA 92270

Phone: --

Client: Robert Winet
36966 Pinto Palm Street, Rancho Mirage, CA 92270

Phone: --

Contact: Gregory Munsell

Phone: 510-247-9885 x311
Cell: 510-909-8689

Receipt Number: WR2017-0393 Total Due: \$662.00
Payer Name : Greg Munsell Total Amount Paid: \$662.00
Paid By: MC PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 10 Boreholes
Driller: Environmental Control Associates - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2017-0662	08/24/2017	11/27/2017	10	2.75 in.	24.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. 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.
3. 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.
4. Applicant shall contact assigned inspector listed on the top of the permit 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.

Alameda County Public Works Agency - Water Resources Well Permit

5. 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.

6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. 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.

Well Construction-Monitoring-Monitoring - 1 Wells

Driller: Environmental Control Associates - Lic #: 695970 - Method: DP

Work Total: \$397.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2017-0663	08/24/2017	11/27/2017	EW-1	12.00 in.	4.00 in.	14.00 ft	24.00 ft

Specific Work Permit Conditions

1. 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.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

Alameda County Public Works Agency - Water Resources Well Permit

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 30 days. Include permit number and site map.
 5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.
 6. Applicant shall contact assigned inspector listed on the top of the permit 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.
 7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
 8. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
 10. 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.
 11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.
-

APPENDIX B

Standard Operating Procedures

STANDARD OPERATING PROCEDURE – DIRECT PUSH BORINGS

SOIL CORING AND SAMPLING PROCEDURES

Prior to drilling, all boreholes will be hand dug to a depth of 4-5 feet below ground surface (bgs) to check for underground utilities.

Soil and groundwater samples are collected for lithologic and chemical analyses using a direct driven soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. As the rods are advanced, soil is driven into an approximately 2.5-inch-diameter sample barrel that is attached to the end of the rods. Soil samples are collected in sleeves inside the sample barrel as the rods are advanced. After being driven 4 to 5 feet into the ground, the rods are removed from the borehole. The sleeve containing the soil core is removed from the sample barrel, and can then be preserved for chemical analyses, or used for lithologic description. This process is repeated until the desired depth or instrument refusal is reached.

A soil core interval selected for analyses is cut from the sleeve using a pre-cleaned hacksaw. The ends of the tube are covered with aluminum foil or Teflon liner and sealed with plastic caps. The soil-filled liner is labeled with the bore number, sample depth, site location, date, and time. The samples are placed in bags and stored in a cooler containing ice. Soil from the core adjacent to the interval selected for analyses is placed in a plastic zip-top bag. The soil is allowed to volatilize for a period of time, depending on the ambient temperature. The soil is scanned with a flame-ionization detector (FID) or photo-ionization detector (PID).

All sample barrels, rods, and tools (e.g. hacksaw) are cleaned with Alconox or equivalent detergent and de-ionized water. All rinsate from the cleaning is contained in 55-gallon drums at the project site.

GROUNDWATER SAMPLING FROM DIRECT PUSH BORINGS

After the targeted water-bearing zone has been penetrated, the soil-sample barrel is removed from the borehole. Small-diameter well casing with 0.010-inch slotted well screen may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole. Groundwater samples may then be collected with a bailer, peristaltic pump, submersible or other appropriate pump until adequate sample volume is obtained. Peristaltic pumps are not used in applications requiring a lift of greater than 1 foot of net head.

Groundwater samples are preserved, stored in an ice-filled cooler, and are delivered, under chain-of-custody, to a laboratory certified by the California Department of Health Services (DHS) for hazardous materials analysis.

BOREHOLE GROUTING FOR DIRECT PUSH BORINGS

Upon completion of soil and water sampling, boreholes will be abandoned with neat cement grout to the surface. If the borehole was advanced into groundwater, the grout is pumped through a grouting tube positioned at the bottom of the borehole.

STANDARD OPERATING PROCEDURE ---

GROUNDWATER MONITORING WELL CONSTRUCTION

The boreholes for monitor wells are usually drilled using a truck-mounted hollow-stem auger drill rig. The hollow-stem auger drilling method allows the well screen, casing and filter pack to be installed through the auger, thereby limiting boring cave-in during well installation. The borehole is logged by a geologist during drilling. Soil samples are collected for logging in a split spoon sampler lined with brass tubes at a maximum interval of five feet. Soil samples selected for chemical analyses are sealed at each end with Teflon sheets and plastic end caps, labeled and stored in a cooler with ice.

Well casing typically consists of flush-threaded schedule 40 PVC; however, schedule 80 PVC, Teflon, or stainless steel may be used depending on site conditions. The screened interval usually consists of machined slots for PVC and Teflon casing and continuous wire-wrap for stainless steel screen. The slot or screen size is selected by the geologist according to filter pack grain size and hydrogeologic formation characteristics. The most commonly used slot sizes are 0.010 inch and 0.020 inch. Either a threaded end cap or a PVC slip cap fastened with stainless steel screws is placed at the bottom of the casing. No solvents or cements are used to join casing sections.

The casing is set inside the hollow-stem auger and sand or gravel filter pack material is slowly poured into the annular space from the bottom of the boring to about 2 ft above the top of the well screen while withdrawing the auger. The filter pack grain size is selected by the geologist to conform to the formation grain size and estimated hydraulic conductivity. A 1-ft to 2-ft thick seal composed of hydrated bentonite pellets is placed above the filter pack to prevent grout from infiltrating into the filter pack. Portland cement grout used to seal the annular space from the top of the bentonite seal to about 6 inches below the surface. The grout is pumped under pressure through a pipe if the bentonite seal is below water. A lockable plastic expansion cap is placed at the top of the casing. Traffic-rated vault boxes are set in concrete around well heads in paved areas. Locking steel monument covers are usually installed over wellheads in unpaved areas.

STANDARD OPERATING PROCEDURE ---

GROUNDWATER MONITORING WELL DEVELOPMENT

Groundwater monitoring wells are developed after installation to improve well yield by removing fine material, including formation material or drilling mud, from the well casing, filter pack and boring annulus/formation interface. Fine material is also removed and soil grains aligned in the formation surrounding the well screen, thereby increasing porosity and hydraulic conductivity.

Prior to well development, the initial static water level is measured using a water level or interface probe. Standard procedure is to develop wells using a WaTerra surge block and an electric submersible pump. Well development may also be performed by hand using surge blocks and bailers, or by a truck-mounted development rig. The well is surged along the entire screened interval using a surge block. This creates a back-washing effect that draws fine material from the formation and filter pack into the well casing and aligns the formation grains. Following surging, the well is then purged by using an electric submersible pump to remove fine suspended solids. The purging is continued until the purged water is relatively free of suspended solids and measurements of the groundwater pH, and conductivity have stabilized. "Stabilized" is defined as three consecutive readings within 10% of one another. Typically the amount of water purged is a minimum of 10 casing volumes. Data including well yield purge time and rate, clarity, pH, and conductivity are recorded.

After purging is completed, water levels are measured and recorded while recovering to static level. All development equipment is either steam-cleaned or washed in non-phosphate detergent solution and double-rinsed with de-ionized (DI) water between wells.

The purged water is contained on-site in drums or tanks until properly disposed.

STANDARD OPERATING PROCEDURE

GROUNDWATER SAMPLING FROM MONITOR WELLS

Prior to groundwater sampling, a measurement is made of the static water level using a water level probe. At sites where the presence of separate-phase hydrocarbons is suspected, a product bailer or an interface probe is used to measure product thickness. The water level probe is cleaned with non-phosphate detergent and rinsed with de-ionized (DI) water between wells. The static water level and well depth are used to calculate the well casing volume. A minimum of 4 well casing volumes of water are purged from the well prior to sampling in order to obtain a representative sample of the groundwater from the formation surrounding the well. Wells should be purged and sampled in order of least to highest suspected concentrations.

Standard purging equipment is an electric submersible pump. Alternatively, purging and sampling systems may be disposable or dedicated (installed in the well) PVC, teflon, or stainless steel bailers; or bladder pumps. Appropriate personal protective equipment is worn during purging. The well is purged until the clarity, pH, and conductivity of the discharged water has stabilized. "Stabilized" is defined as three consecutive readings within 10% of one another.

These parameters are measured and recorded initially, after every well casing volume is removed, and after the sample is collected. In some localities, turbidity, Eh, and dissolved oxygen measurements may also be required. If the well is purged dry prior to the removal of three or four casing volumes of water, the water level is allowed to recover to 80% of the static level before sampling. Whenever possible, samples will be collected within 24 hours after purging. Ideally, samples will be collected immediately after purging to minimize volatilization of aromatic hydrocarbons.

The standard sampling equipment will be inert polyethylene disposable bailers. New sampling gloves are worn during each sample collection. Sample containers typically consist, depending on the analysis, 40 milliliter volatile organic analysis (VOA) vials with teflon septa, 1 liter amber glass bottles, or plastic bottles. HCl or other preservative are added to the sample containers as appropriate by the laboratory prior to sampling. The groundwater sample is decanted into each VOA vial to form a meniscus at the top to eliminate air bubbles when capped. The sample is labeled with date, time, sample number, project number and analysis. The samples are stored in a cooler with blue ice or ice, and delivered under chain-of-custody to the state-certified analytical laboratory. For quality control purposes, duplicate samples, trip blanks, and equipment blanks may also be collected. The duplicate sample is given a different number than the original sample from the same well. Trip blanks are prepared by the laboratory using DI water and remain in the cooler. Equipment blanks are collected from sampling equipment using DI water after the equipment has been decontaminated and rinsed.

All non-dedicated purging and sampling equipment is washed in non-phosphate detergent solution and double rinsed with DI water after use in every well to avoid cross-contamination.

Purge water will be properly disposed or temporarily contained in labeled steel barrels pending chemical analysis to determine proper disposal procedure.

APPENDIX C
Lithologic Logs

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: northwest adjacent to 880

DATE STARTED: 08-30-2017

First Water (ft. bgs.): 14.5 DATE: 08-30-2017

DATE FINISHED: 08-30-2017

TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0							Asphalt + Base rock & Brick/Rubble Debris	
4'								
5								
8'							Silty Clay (CL), dark yellowish brown (10YR 3/6), moist, stiff, medium plasticity, no hydrocarbon (HC) odor	
10								
12'								
15							Silty Sand (SW), yellowish brown (10YR 4/4), wet, dense, 40% fines, 60% fine to coarse well graded sand, no HC odor	
16'								
20'							Silty Clay (CL), yellowish brown (10YR 4/6), damp, very stiff, medium plasticity, no HC odor	
20								

PROJECT: 16-005-02	ADDRESS: 1091 Calcot Place
JOB NUMBER: 16-005-02	LOCATION: northwest adjacent to 880
DATE STARTED: 08-30-2017	First Water (ft. bgs.): 14.5 DATE: 08-30-2017
DATE FINISHED: 08-30-2017	TOTAL DEPTH: 24 feet
DRILLING METHOD: Hydraulic Push	GEOLOGIST: Greg Munsell
DRILLING COMPANY: ECA	Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
24' 0					[Hatched Area]		same Silty Clay (CL)	
25							Bottom of boring 24 feet bgs 08-30-2017	
30								
35								
40								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: southwest side of property

DATE STARTED: 08-30-2017

First Water (ft. bgs.): 18' DATE: 08-30-2017

DATE FINISHED: 08-30-2017

TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0							Asphalt + Base rock & Brick/Rubble Debris	
4'								
5							Clayey Silt (CL), yellowish brown (10YR 5/8), moist, medium stiff, medium plasticity, no hydrocarbon (HC) odor	
8'								
10							Clayey Silt (CL), dark yellowish brown (10YR 4/6), moist, stiff, medium plasticity, no (HC) odor	
12'								
15							SAA with dark brown mottling	
16'								
							Sandy Silt (SW), light yellowish brown (10YR 6/4), wet, soft, non-plastic, no HC odor	
20'								
20'							Clayey Silt (CL), dark yellowish brown (10YR 4/6), moist, stiff, medium plasticity, no hydrocarbon (HC) odor	

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: southwest side of property

DATE STARTED: 08-30-2017

First Water (ft. bgs.): 18' DATE: 08-30-2017

DATE FINISHED: 08-30-2017

TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
24' 0							same Silty Clay (CL)	
25							Bottom of boring 24 feet bgs 08-30-2017	
30								
35								
40								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: south fence line

DATE STARTED: 08-30-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-30-2017







TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
				NR			Asphalt + Base rock & Brick/Rubble Debris	
4' 9.7				NR			Clayey Silt (CL), dark gray (10YR 4/1), dry, stiff, medium plasticity, no hydrocarbon (HC) odor	
8' 10.4				NR		SAA		
12' 9.4				NR		SAA		
16' 3.2				NR			Silty Clay (CL), yellowish brown (10YR 5/8), dry stiff, non-plastic, no HC odor	
20' 0'				NR				

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: south fence line

DATE STARTED: 08-30-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-30-2017



TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
<p>24'</p> <p>0</p> <p>25</p> <p>30</p> <p>35</p> <p>40</p>						<p>SAA</p>	<p>Bottom of boring 24 feet bgs 08-30-2017</p>	

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: parking lot

DATE STARTED: 08-30-2017

First Water (ft. bgs.): 12' DATE: 08-30-2017

DATE FINISHED: 08-30-2017

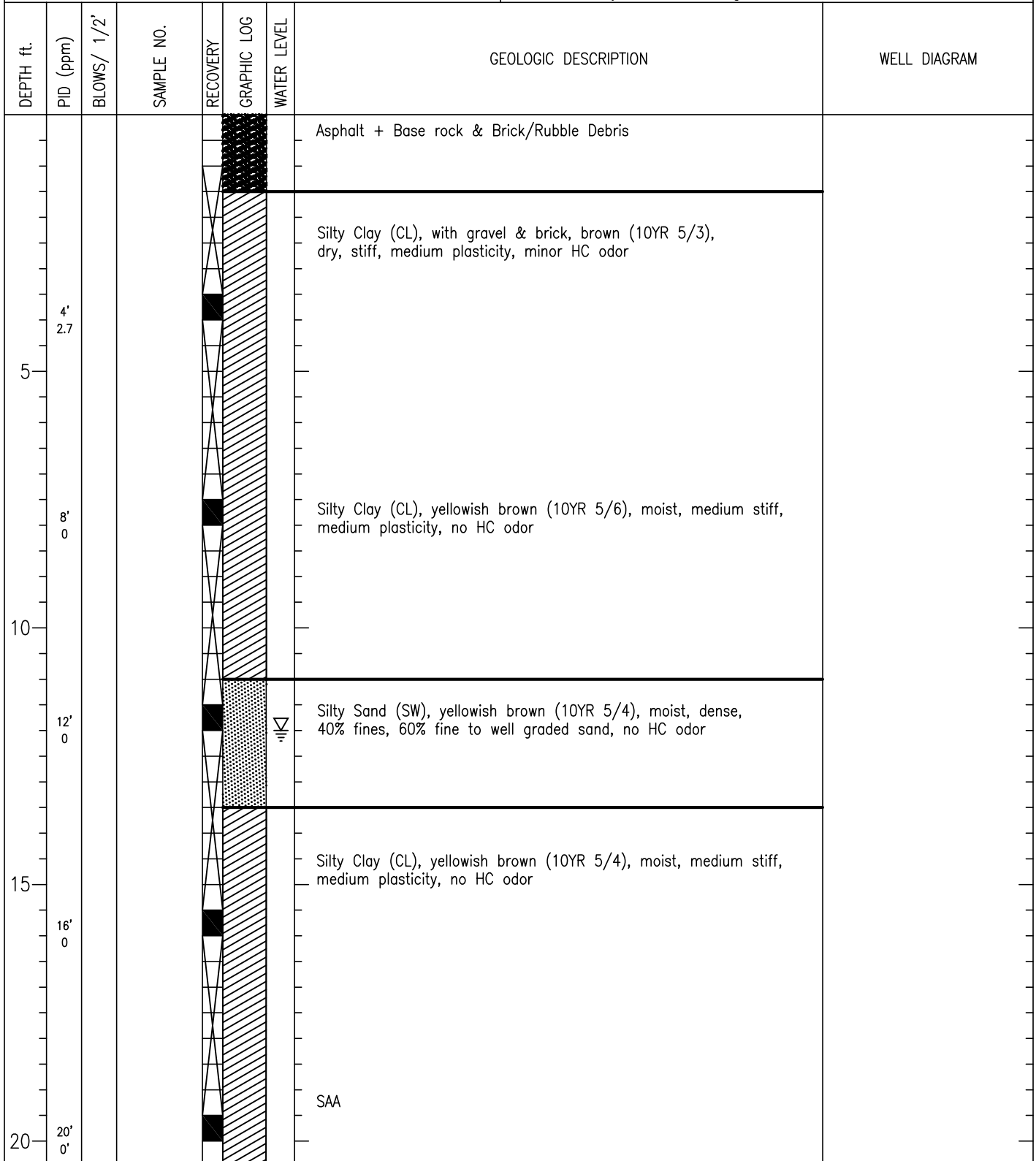
TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II



PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: parking lot

DATE STARTED: 08-30-2017

First Water (ft. bgs.): 12' DATE: 08-30-2017

DATE FINISHED: 08-30-2017


TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
24'	0						<p>Silty Clay (CL), dark yellowish brown (10YR 4/6), moist, medium stiff, medium plasticity, no HC odor</p>	
25							<p>Bottom of boring 24 feet bgs 08-30-2017</p>	
30								
35								
40								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: northeast corner of property

DATE STARTED: 08-31-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-31-2017



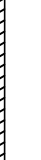




TOTAL DEPTH: 12 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0							Asphalt + Base rock & Brick/Rubble Debris	
4' 0							Silty Clay (CL), dark brown (10YR 3/3), dry, stiff, high plasticity, no HC odor	
5							SSA	
8' 0							Silty Clay (CL), brownish yellow (10YR 6/6), wet, soft, low plasticity, no HC odor	
10								
12' 0							Bottom of boring 12 feet bgs, 08-31-2017	
15								
20								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: northeast corner of property

DATE STARTED: 08-31-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-31-2017

TOTAL DEPTH: 12 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + Base rock & Brick/Rubble Debris	
4' 0							Silty Clay (CL), dark brown (10YR 3/3), dry, stiff, high plasticity, no HC odor	
8' 0							Silty Clay (CL), yellowish brown (10YR 5/8), moist, stiff, high plasticity, no HC odor	
12' 0							Silty Clay (CL), yellowish brown (10YR 5/8), wet, soft, low plasticity, no HC odor	
							Bottom of boring 12 feet bgs, 08-31-2017	
15								
20								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: northeast corner of property

DATE STARTED: 08-31-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-31-2017

TOTAL DEPTH: 12 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + Base rock & Brick/Rubble Debris	
4' 0							Silty Clay (CL), dark yellowish brown (10YR 4/6), dry, medium stiff, medium plasticity, no HC odor	
8' 0							Silty Clay (CL), brownish yellow (10YR 6/8), moist, medium stiff, medium plasticity, no HC odor	
12' 0							Silty Clay (CL), brownish yellow (10YR 6/8), wet, soft, low plasticity, no HC odor	
							Bottom of boring 12 feet bgs, 08-31-2017	
15								
20								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: northeast corner of property

DATE STARTED: 08-31-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-31-2017

TOTAL DEPTH: 12 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Asphalt + Base rock & Brick/Rubble Debris	
4' 0							Silty Clay (CL), dark yellowish brown (10YR 4/6), dry, medium stiff, medium plasticity, no HC odor	
8' 0							Silty Clay (CL), dark brownish yellow (10YR 6/8), moist, medium stiff, medium plasticity, no HC odor	
12' 0							Silty Clay (CL), yellowish brown (10YR 5/8), wet, soft, low plasticity, no HC odor	
							Bottom of boring 12 feet bgs, 08-31-2017	
15								
20								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: west of tank pit

DATE STARTED: 08-31-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-31-2017

TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	P/D (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0							Asphalt + 3/4" base rock	
4'							Silty Clay (CL), dark brown (10YR 3/3), dry, medium stiff, medium plasticity, no hydrocarbon (HC) odor	
5							Silty Clay (CL), dark yellowish brown (10YR 3/4), dry, medium stiff, medium plasticity, no HC odor	
8'							Silty Clay (CL), very dark gray (10YR 3/1), wet, soft, non-plasticity, mild HC odor	
6.3								
10							Silty Sand (SW), very dark greenish gray (Gley1 3/1), wet, medium dense, 40% fines, 60% fine to coarse well graded sand, slight HC odor. No water sample collected.	
12'								
11.1								
15							Silty Clay (CL), yellowish brown (10YR 5/8), moist, medium stiff, low plasticity, slight HC odor	
16'								
2.1								
20							Silty Clay (CL), brownish yellow (10YR 6/8), moist, medium stiff, medium plasticity, no HC odor	
20'								
0'								

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: west of tank pit

DATE STARTED: 08-31-2017

First Water (ft. bgs.): - DATE: -

DATE FINISHED: 08-31-2017



TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
<p>24' 0</p> <p>25</p> <p>30</p> <p>35</p> <p>40</p>						<p>SAA</p>	<p>Bottom of boring 24 feet bgs, 08-31-2017</p>	

PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: north end of pit

DATE STARTED: 08-31-2017

First Water (ft. bgs.): 14'

DATE: 08-31-2017

DATE FINISHED: 08-31-2017

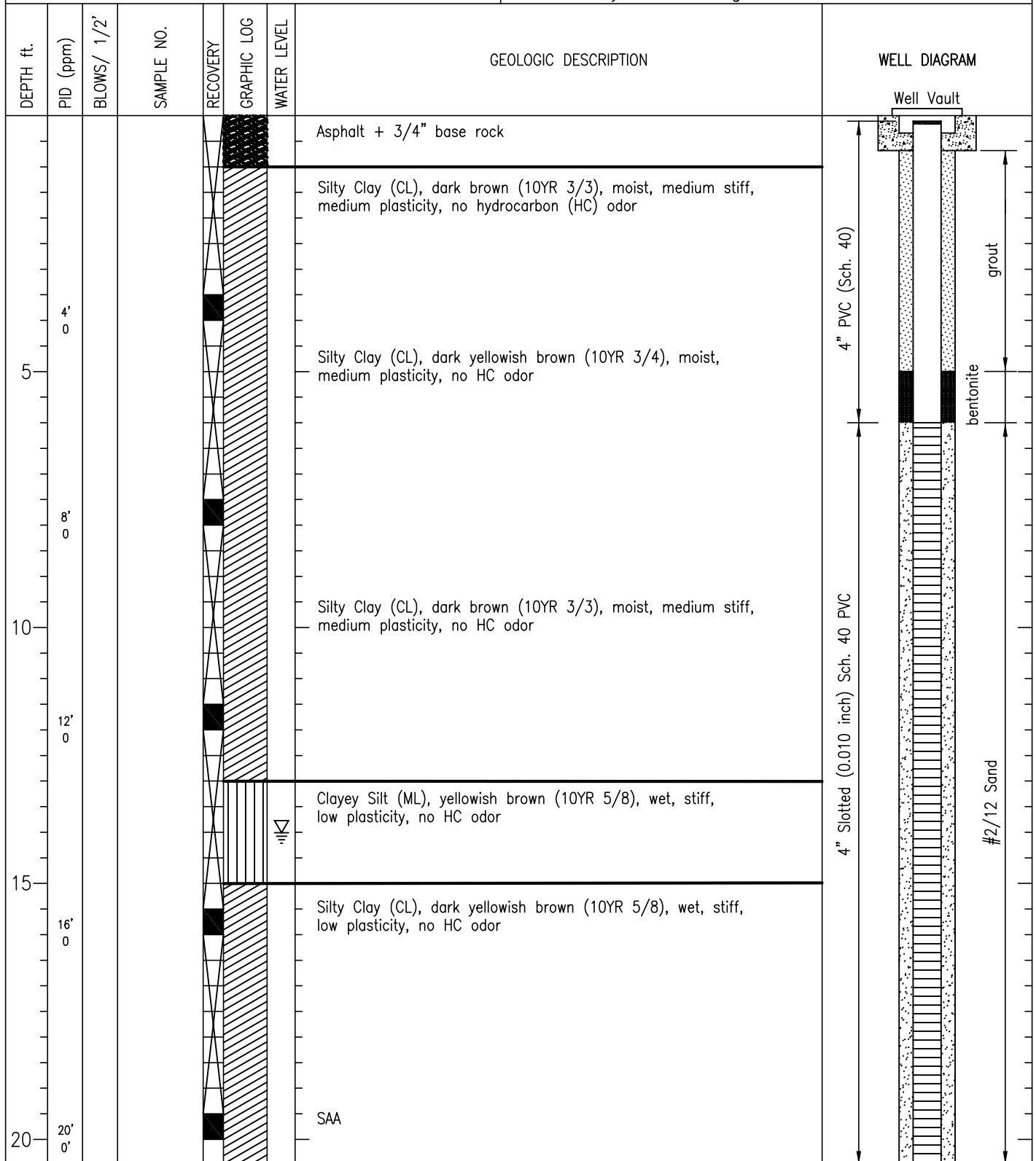
TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II



PROJECT: 16-005-02

ADDRESS: 1091 Calcot Place

JOB NUMBER: 16-005-02

LOCATION: north end of pit

DATE STARTED: 08-31-2017

First Water (ft. bgs.): 14'

DATE: 08-31-2017

DATE FINISHED: 08-31-2017

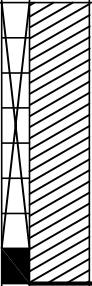
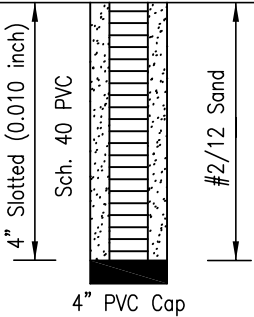
TOTAL DEPTH: 24 feet

DRILLING METHOD: Hydraulic Push

GEOLOGIST: Greg Munsell

DRILLING COMPANY: ECA

Reviewed By: Curtis Payton II

DEPTH ft.	P/D (ppm)	BLOWS/ 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
24' 0							Silty Clay (CL), dark yellowish brown (10YR 4/6), dry, stiff, low plasticity, no HC odor	
25							Bottom of boring 24 feet bgs, 08-31-2017	
30								
35								
40								

APPENDIX D
Analytical Results



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1709045 **Amended:** 10/24/2017

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Greg Munsell

Project P.O.:

Project Name: 16-005-02; 1091 Calcot Place, Oakland

Project Received: 09/01/2017

Analytical Report reviewed & approved for release on 09/13/2017 by:

Yen Cao
Project 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.





Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 16-005-02; 1091 Calcot Place, Oakland
WorkOrder: 1709045

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
ERS	External reference sample. Second source calibration verification.
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)



Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 16-005-02; 1091 Calcot Place, Oakland
WorkOrder: 1709045

Analytical Qualifiers

B	Analyte detected in the associated Method Blank and in the sample
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
H	Samples were analyzed out of holding time
S	Surrogate spike recovery outside accepted recovery limits
a3	Sample diluted due to high organic content.
a4	Reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
a9	Reporting limit near, but not identical to, our standard reporting limit due to variable Encore/Solid sample weight
a19	Reporting limit near, but not identical to our standard reporting limit due to variable sample volume
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.
c2	Surrogate recovery outside of the control limits due to matrix interference.
e2/e3	Diesel range compounds are significant; no recognizable pattern; and/or Aged diesel is significant
e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.
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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 4 feet	1709045-001A	Soil	08/30/2017 10:43	GC10 09061707.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.11	0.28	1	09/06/2017 11:19
tert-Amyl methyl ether (TAME)	ND	H	0.0028	0.014	1	09/06/2017 11:19
Benzene	ND	H	0.0045	0.014	1	09/06/2017 11:19
Bromobenzene	ND	H	0.0047	0.014	1	09/06/2017 11:19
Bromochloromethane	ND	H	0.0042	0.014	1	09/06/2017 11:19
Bromodichloromethane	ND	H	0.0034	0.014	1	09/06/2017 11:19
Bromoform	ND	H	0.0022	0.014	1	09/06/2017 11:19
Bromomethane	ND	H	0.0056	0.014	1	09/06/2017 11:19
2-Butanone (MEK)	ND	H	0.015	0.056	1	09/06/2017 11:19
t-Butyl alcohol (TBA)	ND	H	0.015	0.14	1	09/06/2017 11:19
n-Butyl benzene	ND	H	0.0098	0.014	1	09/06/2017 11:19
sec-Butyl benzene	ND	H	0.0095	0.014	1	09/06/2017 11:19
tert-Butyl benzene	ND	H	0.0084	0.014	1	09/06/2017 11:19
Carbon Disulfide	ND	H	0.0047	0.014	1	09/06/2017 11:19
Carbon Tetrachloride	ND	H	0.0047	0.014	1	09/06/2017 11:19
Chlorobenzene	ND	H	0.0050	0.014	1	09/06/2017 11:19
Chloroethane	ND	H	0.0045	0.014	1	09/06/2017 11:19
Chloroform	ND	H	0.0045	0.014	1	09/06/2017 11:19
Chloromethane	ND	H	0.0047	0.014	1	09/06/2017 11:19
2-Chlorotoluene	ND	H	0.0061	0.014	1	09/06/2017 11:19
4-Chlorotoluene	ND	H	0.0059	0.014	1	09/06/2017 11:19
Dibromochloromethane	ND	H	0.0031	0.014	1	09/06/2017 11:19
1,2-Dibromo-3-chloropropane	ND	H	0.0034	0.011	1	09/06/2017 11:19
1,2-Dibromoethane (EDB)	ND	H	0.0036	0.011	1	09/06/2017 11:19
Dibromomethane	ND	H	0.0039	0.014	1	09/06/2017 11:19
1,2-Dichlorobenzene	ND	H	0.0039	0.014	1	09/06/2017 11:19
1,3-Dichlorobenzene	ND	H	0.0050	0.014	1	09/06/2017 11:19
1,4-Dichlorobenzene	ND	H	0.0050	0.014	1	09/06/2017 11:19
Dichlorodifluoromethane	ND	H	0.0031	0.014	1	09/06/2017 11:19
1,1-Dichloroethane	ND	H	0.0047	0.014	1	09/06/2017 11:19
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0039	0.014	1	09/06/2017 11:19
1,1-Dichloroethene	ND	H	0.0047	0.014	1	09/06/2017 11:19
cis-1,2-Dichloroethene	ND	H	0.0042	0.014	1	09/06/2017 11:19
trans-1,2-Dichloroethene	ND	H	0.0045	0.014	1	09/06/2017 11:19
1,2-Dichloropropane	ND	H	0.0039	0.014	1	09/06/2017 11:19
1,3-Dichloropropane	ND	H	0.0045	0.014	1	09/06/2017 11:19
2,2-Dichloropropane	ND	H	0.0036	0.014	1	09/06/2017 11:19

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 4 feet	1709045-001A	Soil	08/30/2017 10:43	GC10 09061707.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	0.014	1	09/06/2017 11:19
cis-1,3-Dichloropropene	ND	H	0.0042	0.014	1	09/06/2017 11:19
trans-1,3-Dichloropropene	ND	H	0.0039	0.014	1	09/06/2017 11:19
Diisopropyl ether (DIPE)	ND	H	0.0039	0.014	1	09/06/2017 11:19
Ethylbenzene	ND	H	0.0056	0.014	1	09/06/2017 11:19
Ethyl tert-butyl ether (ETBE)	ND	H	0.0036	0.014	1	09/06/2017 11:19
Freon 113	ND	H	0.0045	0.014	1	09/06/2017 11:19
Hexachlorobutadiene	ND	H	0.014	0.014	1	09/06/2017 11:19
Hexachloroethane	ND	H	0.0070	0.014	1	09/06/2017 11:19
2-Hexanone	ND	H	0.0070	0.014	1	09/06/2017 11:19
Isopropylbenzene	ND	H	0.0061	0.014	1	09/06/2017 11:19
4-Isopropyl toluene	ND	H	0.0087	0.014	1	09/06/2017 11:19
Methyl-t-butyl ether (MTBE)	ND	H	0.0036	0.014	1	09/06/2017 11:19
Methylene chloride	ND	H	0.010	0.014	1	09/06/2017 11:19
4-Methyl-2-pentanone (MIBK)	ND	H	0.0022	0.014	1	09/06/2017 11:19
Naphthalene	0.0093	JH	0.0017	0.014	1	09/06/2017 11:19
n-Propyl benzene	ND	H	0.0081	0.014	1	09/06/2017 11:19
Styrene	ND	H	0.0039	0.014	1	09/06/2017 11:19
1,1,1,2-Tetrachloroethane	ND	H	0.0045	0.014	1	09/06/2017 11:19
1,1,2,2-Tetrachloroethane	ND	H	0.0036	0.014	1	09/06/2017 11:19
Tetrachloroethene	ND	H	0.0064	0.014	1	09/06/2017 11:19
Toluene	ND	H	0.0061	0.014	1	09/06/2017 11:19
1,2,3-Trichlorobenzene	ND	H	0.0020	0.014	1	09/06/2017 11:19
1,2,4-Trichlorobenzene	ND	H	0.0031	0.014	1	09/06/2017 11:19
1,1,1-Trichloroethane	ND	H	0.0050	0.014	1	09/06/2017 11:19
1,1,2-Trichloroethane	ND	H	0.0045	0.014	1	09/06/2017 11:19
Trichloroethene	ND	H	0.0047	0.014	1	09/06/2017 11:19
Trichlorofluoromethane	ND	H	0.0045	0.014	1	09/06/2017 11:19
1,2,3-Trichloropropane	ND	H	0.0053	0.014	1	09/06/2017 11:19
1,2,4-Trimethylbenzene	ND	H	0.0067	0.014	1	09/06/2017 11:19
1,3,5-Trimethylbenzene	ND	H	0.0075	0.014	1	09/06/2017 11:19
Vinyl Chloride	ND	H	0.0042	0.014	1	09/06/2017 11:19
Xylenes, Total	ND	H	0.0070	0.014	1	09/06/2017 11:19

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 4 feet	1709045-001A	Soil	08/30/2017 10:43	GC10 09061707.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	108	H		70-130		09/06/2017 11:19
Toluene-d8	122	H		70-130		09/06/2017 11:19
4-BFB	101	H		70-130		09/06/2017 11:19
Benzene-d6	97	H		60-140		09/06/2017 11:19
Ethylbenzene-d10	106	H		60-140		09/06/2017 11:19
1,2-DCB-d4	83	H		60-140		09/06/2017 11:19

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 8 feet	1709045-002A	Soil	08/30/2017 10:45	GC10 09061708.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.12	0.31	1	09/06/2017 12:01
tert-Amyl methyl ether (TAME)	ND	H	0.0031	0.015	1	09/06/2017 12:01
Benzene	ND	H	0.0049	0.015	1	09/06/2017 12:01
Bromobenzene	ND	H	0.0052	0.015	1	09/06/2017 12:01
Bromochloromethane	ND	H	0.0046	0.015	1	09/06/2017 12:01
Bromodichloromethane	ND	H	0.0037	0.015	1	09/06/2017 12:01
Bromoform	ND	H	0.0025	0.015	1	09/06/2017 12:01
Bromomethane	ND	H	0.0062	0.015	1	09/06/2017 12:01
2-Butanone (MEK)	0.019	JH	0.017	0.062	1	09/06/2017 12:01
t-Butyl alcohol (TBA)	ND	H	0.016	0.15	1	09/06/2017 12:01
n-Butyl benzene	ND	H	0.011	0.015	1	09/06/2017 12:01
sec-Butyl benzene	ND	H	0.010	0.015	1	09/06/2017 12:01
tert-Butyl benzene	ND	H	0.0092	0.015	1	09/06/2017 12:01
Carbon Disulfide	ND	H	0.0052	0.015	1	09/06/2017 12:01
Carbon Tetrachloride	ND	H	0.0052	0.015	1	09/06/2017 12:01
Chlorobenzene	ND	H	0.0055	0.015	1	09/06/2017 12:01
Chloroethane	ND	H	0.0049	0.015	1	09/06/2017 12:01
Chloroform	ND	H	0.0049	0.015	1	09/06/2017 12:01
Chloromethane	ND	H	0.0052	0.015	1	09/06/2017 12:01
2-Chlorotoluene	ND	H	0.0068	0.015	1	09/06/2017 12:01
4-Chlorotoluene	ND	H	0.0065	0.015	1	09/06/2017 12:01
Dibromochloromethane	ND	H	0.0034	0.015	1	09/06/2017 12:01
1,2-Dibromo-3-chloropropane	ND	H	0.0037	0.012	1	09/06/2017 12:01
1,2-Dibromoethane (EDB)	ND	H	0.0040	0.012	1	09/06/2017 12:01
Dibromomethane	ND	H	0.0043	0.015	1	09/06/2017 12:01
1,2-Dichlorobenzene	ND	H	0.0043	0.015	1	09/06/2017 12:01
1,3-Dichlorobenzene	ND	H	0.0055	0.015	1	09/06/2017 12:01
1,4-Dichlorobenzene	ND	H	0.0055	0.015	1	09/06/2017 12:01
Dichlorodifluoromethane	ND	H	0.0034	0.015	1	09/06/2017 12:01
1,1-Dichloroethane	ND	H	0.0052	0.015	1	09/06/2017 12:01
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0043	0.015	1	09/06/2017 12:01
1,1-Dichloroethene	ND	H	0.0052	0.015	1	09/06/2017 12:01
cis-1,2-Dichloroethene	ND	H	0.0046	0.015	1	09/06/2017 12:01
trans-1,2-Dichloroethene	ND	H	0.0049	0.015	1	09/06/2017 12:01
1,2-Dichloropropane	ND	H	0.0043	0.015	1	09/06/2017 12:01
1,3-Dichloropropane	ND	H	0.0049	0.015	1	09/06/2017 12:01
2,2-Dichloropropane	ND	H	0.0040	0.015	1	09/06/2017 12:01

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 8 feet	1709045-002A	Soil	08/30/2017 10:45	GC10 09061708.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0055	0.015	1	09/06/2017 12:01
cis-1,3-Dichloropropene	ND	H	0.0046	0.015	1	09/06/2017 12:01
trans-1,3-Dichloropropene	ND	H	0.0043	0.015	1	09/06/2017 12:01
Diisopropyl ether (DIPE)	ND	H	0.0043	0.015	1	09/06/2017 12:01
Ethylbenzene	ND	H	0.0062	0.015	1	09/06/2017 12:01
Ethyl tert-butyl ether (ETBE)	ND	H	0.0040	0.015	1	09/06/2017 12:01
Freon 113	ND	H	0.0049	0.015	1	09/06/2017 12:01
Hexachlorobutadiene	ND	H	0.015	0.015	1	09/06/2017 12:01
Hexachloroethane	ND	H	0.0077	0.015	1	09/06/2017 12:01
2-Hexanone	ND	H	0.0077	0.015	1	09/06/2017 12:01
Isopropylbenzene	ND	H	0.0068	0.015	1	09/06/2017 12:01
4-Isopropyl toluene	ND	H	0.0095	0.015	1	09/06/2017 12:01
Methyl-t-butyl ether (MTBE)	ND	H	0.0040	0.015	1	09/06/2017 12:01
Methylene chloride	ND	H	0.011	0.015	1	09/06/2017 12:01
4-Methyl-2-pentanone (MIBK)	ND	H	0.0025	0.015	1	09/06/2017 12:01
Naphthalene	ND	H	0.0018	0.015	1	09/06/2017 12:01
n-Propyl benzene	ND	H	0.0089	0.015	1	09/06/2017 12:01
Styrene	ND	H	0.0043	0.015	1	09/06/2017 12:01
1,1,1,2-Tetrachloroethane	ND	H	0.0049	0.015	1	09/06/2017 12:01
1,1,2,2-Tetrachloroethane	ND	H	0.0040	0.015	1	09/06/2017 12:01
Tetrachloroethene	ND	H	0.0071	0.015	1	09/06/2017 12:01
Toluene	ND	H	0.0068	0.015	1	09/06/2017 12:01
1,2,3-Trichlorobenzene	ND	H	0.0022	0.015	1	09/06/2017 12:01
1,2,4-Trichlorobenzene	ND	H	0.0034	0.015	1	09/06/2017 12:01
1,1,1-Trichloroethane	ND	H	0.0055	0.015	1	09/06/2017 12:01
1,1,2-Trichloroethane	ND	H	0.0049	0.015	1	09/06/2017 12:01
Trichloroethene	ND	H	0.0052	0.015	1	09/06/2017 12:01
Trichlorofluoromethane	ND	H	0.0049	0.015	1	09/06/2017 12:01
1,2,3-Trichloropropane	ND	H	0.0058	0.015	1	09/06/2017 12:01
1,2,4-Trimethylbenzene	ND	H	0.0074	0.015	1	09/06/2017 12:01
1,3,5-Trimethylbenzene	ND	H	0.0083	0.015	1	09/06/2017 12:01
Vinyl Chloride	ND	H	0.0046	0.015	1	09/06/2017 12:01
Xylenes, Total	ND	H	0.0077	0.015	1	09/06/2017 12:01

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 8 feet	1709045-002A	Soil	08/30/2017 10:45	GC10 09061708.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 12:01
Toluene-d8	120	H		70-130		09/06/2017 12:01
4-BFB	104	H		70-130		09/06/2017 12:01
Benzene-d6	95	H		60-140		09/06/2017 12:01
Ethylbenzene-d10	105	H		60-140		09/06/2017 12:01
1,2-DCB-d4	80	H		60-140		09/06/2017 12:01

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 4 feet	1709045-006A	Soil	08/30/2017 09:58	GC10 09061709.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.063	0.16	1	09/06/2017 12:42
tert-Amyl methyl ether (TAME)	ND	H	0.0016	0.0081	1	09/06/2017 12:42
Benzene	ND	H	0.0026	0.0081	1	09/06/2017 12:42
Bromobenzene	ND	H	0.0028	0.0081	1	09/06/2017 12:42
Bromochloromethane	ND	H	0.0024	0.0081	1	09/06/2017 12:42
Bromodichloromethane	ND	H	0.0019	0.0081	1	09/06/2017 12:42
Bromoform	ND	H	0.0013	0.0081	1	09/06/2017 12:42
Bromomethane	ND	H	0.0032	0.0081	1	09/06/2017 12:42
2-Butanone (MEK)	0.010	JH	0.0087	0.032	1	09/06/2017 12:42
t-Butyl alcohol (TBA)	ND	H	0.0086	0.081	1	09/06/2017 12:42
n-Butyl benzene	ND	H	0.0057	0.0081	1	09/06/2017 12:42
sec-Butyl benzene	ND	H	0.0055	0.0081	1	09/06/2017 12:42
tert-Butyl benzene	ND	H	0.0049	0.0081	1	09/06/2017 12:42
Carbon Disulfide	ND	H	0.0028	0.0081	1	09/06/2017 12:42
Carbon Tetrachloride	ND	H	0.0028	0.0081	1	09/06/2017 12:42
Chlorobenzene	ND	H	0.0029	0.0081	1	09/06/2017 12:42
Chloroethane	ND	H	0.0026	0.0081	1	09/06/2017 12:42
Chloroform	ND	H	0.0026	0.0081	1	09/06/2017 12:42
Chloromethane	ND	H	0.0028	0.0081	1	09/06/2017 12:42
2-Chlorotoluene	ND	H	0.0036	0.0081	1	09/06/2017 12:42
4-Chlorotoluene	ND	H	0.0034	0.0081	1	09/06/2017 12:42
Dibromochloromethane	ND	H	0.0018	0.0081	1	09/06/2017 12:42
1,2-Dibromo-3-chloropropane	ND	H	0.0019	0.0065	1	09/06/2017 12:42
1,2-Dibromoethane (EDB)	ND	H	0.0021	0.0065	1	09/06/2017 12:42
Dibromomethane	ND	H	0.0023	0.0081	1	09/06/2017 12:42
1,2-Dichlorobenzene	ND	H	0.0023	0.0081	1	09/06/2017 12:42
1,3-Dichlorobenzene	ND	H	0.0029	0.0081	1	09/06/2017 12:42
1,4-Dichlorobenzene	ND	H	0.0029	0.0081	1	09/06/2017 12:42
Dichlorodifluoromethane	ND	H	0.0018	0.0081	1	09/06/2017 12:42
1,1-Dichloroethane	ND	H	0.0028	0.0081	1	09/06/2017 12:42
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0023	0.0081	1	09/06/2017 12:42
1,1-Dichloroethene	ND	H	0.0028	0.0081	1	09/06/2017 12:42
cis-1,2-Dichloroethene	ND	H	0.0024	0.0081	1	09/06/2017 12:42
trans-1,2-Dichloroethene	ND	H	0.0026	0.0081	1	09/06/2017 12:42
1,2-Dichloropropane	ND	H	0.0023	0.0081	1	09/06/2017 12:42
1,3-Dichloropropane	ND	H	0.0026	0.0081	1	09/06/2017 12:42
2,2-Dichloropropane	ND	H	0.0021	0.0081	1	09/06/2017 12:42

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 4 feet	1709045-006A	Soil	08/30/2017 09:58	GC10 09061709.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0029	0.0081	1	09/06/2017 12:42
cis-1,3-Dichloropropene	ND	H	0.0024	0.0081	1	09/06/2017 12:42
trans-1,3-Dichloropropene	ND	H	0.0023	0.0081	1	09/06/2017 12:42
Diisopropyl ether (DIPE)	ND	H	0.0023	0.0081	1	09/06/2017 12:42
Ethylbenzene	ND	H	0.0032	0.0081	1	09/06/2017 12:42
Ethyl tert-butyl ether (ETBE)	ND	H	0.0021	0.0081	1	09/06/2017 12:42
Freon 113	ND	H	0.0026	0.0081	1	09/06/2017 12:42
Hexachlorobutadiene	ND	H	0.0081	0.0081	1	09/06/2017 12:42
Hexachloroethane	ND	H	0.0040	0.0081	1	09/06/2017 12:42
2-Hexanone	ND	H	0.0040	0.0081	1	09/06/2017 12:42
Isopropylbenzene	ND	H	0.0036	0.0081	1	09/06/2017 12:42
4-Isopropyl toluene	ND	H	0.0050	0.0081	1	09/06/2017 12:42
Methyl-t-butyl ether (MTBE)	ND	H	0.0021	0.0081	1	09/06/2017 12:42
Methylene chloride	ND	H	0.0058	0.0081	1	09/06/2017 12:42
4-Methyl-2-pentanone (MIBK)	ND	H	0.0013	0.0081	1	09/06/2017 12:42
Naphthalene	ND	H	0.00097	0.0081	1	09/06/2017 12:42
n-Propyl benzene	ND	H	0.0047	0.0081	1	09/06/2017 12:42
Styrene	ND	H	0.0023	0.0081	1	09/06/2017 12:42
1,1,1,2-Tetrachloroethane	ND	H	0.0026	0.0081	1	09/06/2017 12:42
1,1,2,2-Tetrachloroethane	ND	H	0.0021	0.0081	1	09/06/2017 12:42
Tetrachloroethene	ND	H	0.0037	0.0081	1	09/06/2017 12:42
Toluene	ND	H	0.0036	0.0081	1	09/06/2017 12:42
1,2,3-Trichlorobenzene	ND	H	0.0011	0.0081	1	09/06/2017 12:42
1,2,4-Trichlorobenzene	ND	H	0.0018	0.0081	1	09/06/2017 12:42
1,1,1-Trichloroethane	ND	H	0.0029	0.0081	1	09/06/2017 12:42
1,1,2-Trichloroethane	ND	H	0.0026	0.0081	1	09/06/2017 12:42
Trichloroethene	ND	H	0.0028	0.0081	1	09/06/2017 12:42
Trichlorofluoromethane	ND	H	0.0026	0.0081	1	09/06/2017 12:42
1,2,3-Trichloropropane	ND	H	0.0031	0.0081	1	09/06/2017 12:42
1,2,4-Trimethylbenzene	ND	H	0.0039	0.0081	1	09/06/2017 12:42
1,3,5-Trimethylbenzene	ND	H	0.0044	0.0081	1	09/06/2017 12:42
Vinyl Chloride	ND	H	0.0024	0.0081	1	09/06/2017 12:42
Xylenes, Total	ND	H	0.0040	0.0081	1	09/06/2017 12:42

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 4 feet	1709045-006A	Soil	08/30/2017 09:58	GC10 09061709.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 12:42
Toluene-d8	120	H		70-130		09/06/2017 12:42
4-BFB	99	H		70-130		09/06/2017 12:42
Benzene-d6	95	H		60-140		09/06/2017 12:42
Ethylbenzene-d10	102	H		60-140		09/06/2017 12:42
1,2-DCB-d4	81	H		60-140		09/06/2017 12:42

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 8 feet	1709045-007A	Soil	08/30/2017 10:02	GC10 09061710.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.088	0.23	1	09/06/2017 13:24
tert-Amyl methyl ether (TAME)	ND	H	0.0023	0.011	1	09/06/2017 13:24
Benzene	ND	H	0.0036	0.011	1	09/06/2017 13:24
Bromobenzene	ND	H	0.0038	0.011	1	09/06/2017 13:24
Bromochloromethane	ND	H	0.0034	0.011	1	09/06/2017 13:24
Bromodichloromethane	ND	H	0.0027	0.011	1	09/06/2017 13:24
Bromoform	ND	H	0.0018	0.011	1	09/06/2017 13:24
Bromomethane	ND	H	0.0045	0.011	1	09/06/2017 13:24
2-Butanone (MEK)	0.014	JH	0.012	0.045	1	09/06/2017 13:24
t-Butyl alcohol (TBA)	ND	H	0.012	0.11	1	09/06/2017 13:24
n-Butyl benzene	ND	H	0.0079	0.011	1	09/06/2017 13:24
sec-Butyl benzene	ND	H	0.0077	0.011	1	09/06/2017 13:24
tert-Butyl benzene	ND	H	0.0068	0.011	1	09/06/2017 13:24
Carbon Disulfide	ND	H	0.0038	0.011	1	09/06/2017 13:24
Carbon Tetrachloride	ND	H	0.0038	0.011	1	09/06/2017 13:24
Chlorobenzene	ND	H	0.0041	0.011	1	09/06/2017 13:24
Chloroethane	ND	H	0.0036	0.011	1	09/06/2017 13:24
Chloroform	ND	H	0.0036	0.011	1	09/06/2017 13:24
Chloromethane	ND	H	0.0038	0.011	1	09/06/2017 13:24
2-Chlorotoluene	ND	H	0.0050	0.011	1	09/06/2017 13:24
4-Chlorotoluene	ND	H	0.0047	0.011	1	09/06/2017 13:24
Dibromochloromethane	ND	H	0.0025	0.011	1	09/06/2017 13:24
1,2-Dibromo-3-chloropropane	ND	H	0.0027	0.0090	1	09/06/2017 13:24
1,2-Dibromoethane (EDB)	ND	H	0.0029	0.0090	1	09/06/2017 13:24
Dibromomethane	ND	H	0.0032	0.011	1	09/06/2017 13:24
1,2-Dichlorobenzene	ND	H	0.0032	0.011	1	09/06/2017 13:24
1,3-Dichlorobenzene	ND	H	0.0041	0.011	1	09/06/2017 13:24
1,4-Dichlorobenzene	ND	H	0.0041	0.011	1	09/06/2017 13:24
Dichlorodifluoromethane	ND	H	0.0025	0.011	1	09/06/2017 13:24
1,1-Dichloroethane	ND	H	0.0038	0.011	1	09/06/2017 13:24
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0032	0.011	1	09/06/2017 13:24
1,1-Dichloroethene	ND	H	0.0038	0.011	1	09/06/2017 13:24
cis-1,2-Dichloroethene	ND	H	0.0034	0.011	1	09/06/2017 13:24
trans-1,2-Dichloroethene	ND	H	0.0036	0.011	1	09/06/2017 13:24
1,2-Dichloropropane	ND	H	0.0032	0.011	1	09/06/2017 13:24
1,3-Dichloropropane	ND	H	0.0036	0.011	1	09/06/2017 13:24
2,2-Dichloropropane	ND	H	0.0029	0.011	1	09/06/2017 13:24

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 8 feet	1709045-007A	Soil	08/30/2017 10:02	GC10 09061710.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0041	0.011	1	09/06/2017 13:24
cis-1,3-Dichloropropene	ND	H	0.0034	0.011	1	09/06/2017 13:24
trans-1,3-Dichloropropene	ND	H	0.0032	0.011	1	09/06/2017 13:24
Diisopropyl ether (DIPE)	ND	H	0.0032	0.011	1	09/06/2017 13:24
Ethylbenzene	ND	H	0.0045	0.011	1	09/06/2017 13:24
Ethyl tert-butyl ether (ETBE)	ND	H	0.0029	0.011	1	09/06/2017 13:24
Freon 113	ND	H	0.0036	0.011	1	09/06/2017 13:24
Hexachlorobutadiene	ND	H	0.011	0.011	1	09/06/2017 13:24
Hexachloroethane	ND	H	0.0056	0.011	1	09/06/2017 13:24
2-Hexanone	ND	H	0.0056	0.011	1	09/06/2017 13:24
Isopropylbenzene	ND	H	0.0050	0.011	1	09/06/2017 13:24
4-Isopropyl toluene	ND	H	0.0070	0.011	1	09/06/2017 13:24
Methyl-t-butyl ether (MTBE)	ND	H	0.0029	0.011	1	09/06/2017 13:24
Methylene chloride	ND	H	0.0081	0.011	1	09/06/2017 13:24
4-Methyl-2-pentanone (MIBK)	ND	H	0.0018	0.011	1	09/06/2017 13:24
Naphthalene	ND	H	0.0014	0.011	1	09/06/2017 13:24
n-Propyl benzene	ND	H	0.0065	0.011	1	09/06/2017 13:24
Styrene	ND	H	0.0032	0.011	1	09/06/2017 13:24
1,1,1,2-Tetrachloroethane	ND	H	0.0036	0.011	1	09/06/2017 13:24
1,1,2,2-Tetrachloroethane	ND	H	0.0029	0.011	1	09/06/2017 13:24
Tetrachloroethene	ND	H	0.0052	0.011	1	09/06/2017 13:24
Toluene	ND	H	0.0050	0.011	1	09/06/2017 13:24
1,2,3-Trichlorobenzene	ND	H	0.0016	0.011	1	09/06/2017 13:24
1,2,4-Trichlorobenzene	ND	H	0.0025	0.011	1	09/06/2017 13:24
1,1,1-Trichloroethane	ND	H	0.0041	0.011	1	09/06/2017 13:24
1,1,2-Trichloroethane	ND	H	0.0036	0.011	1	09/06/2017 13:24
Trichloroethene	ND	H	0.0038	0.011	1	09/06/2017 13:24
Trichlorofluoromethane	ND	H	0.0036	0.011	1	09/06/2017 13:24
1,2,3-Trichloropropane	ND	H	0.0043	0.011	1	09/06/2017 13:24
1,2,4-Trimethylbenzene	ND	H	0.0054	0.011	1	09/06/2017 13:24
1,3,5-Trimethylbenzene	ND	H	0.0061	0.011	1	09/06/2017 13:24
Vinyl Chloride	ND	H	0.0034	0.011	1	09/06/2017 13:24
Xylenes, Total	ND	H	0.0056	0.011	1	09/06/2017 13:24

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 8 feet	1709045-007A	Soil	08/30/2017 10:02	GC10 09061710.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 13:24
Toluene-d8	119	H		70-130		09/06/2017 13:24
4-BFB	101	H		70-130		09/06/2017 13:24
Benzene-d6	94	H		60-140		09/06/2017 13:24
Ethylbenzene-d10	104	H		60-140		09/06/2017 13:24
1,2-DCB-d4	80	H		60-140		09/06/2017 13:24

Analyst(s): AK

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 4 feet	1709045-012A	Soil	08/30/2017 12:10	GC10 09061711.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.072	0.18	1	09/06/2017 14:05
tert-Amyl methyl ether (TAME)	ND	H	0.0018	0.0092	1	09/06/2017 14:05
Benzene	ND	H	0.0030	0.0092	1	09/06/2017 14:05
Bromobenzene	ND	H	0.0031	0.0092	1	09/06/2017 14:05
Bromochloromethane	ND	H	0.0028	0.0092	1	09/06/2017 14:05
Bromodichloromethane	ND	H	0.0022	0.0092	1	09/06/2017 14:05
Bromoform	ND	H	0.0015	0.0092	1	09/06/2017 14:05
Bromomethane	ND	H	0.0037	0.0092	1	09/06/2017 14:05
2-Butanone (MEK)	0.022	JH	0.010	0.037	1	09/06/2017 14:05
t-Butyl alcohol (TBA)	ND	H	0.0098	0.092	1	09/06/2017 14:05
n-Butyl benzene	ND	H	0.0065	0.0092	1	09/06/2017 14:05
sec-Butyl benzene	ND	H	0.0063	0.0092	1	09/06/2017 14:05
tert-Butyl benzene	0.0067	JH	0.0055	0.0092	1	09/06/2017 14:05
Carbon Disulfide	ND	H	0.0031	0.0092	1	09/06/2017 14:05
Carbon Tetrachloride	ND	H	0.0031	0.0092	1	09/06/2017 14:05
Chlorobenzene	ND	H	0.0033	0.0092	1	09/06/2017 14:05
Chloroethane	ND	H	0.0030	0.0092	1	09/06/2017 14:05
Chloroform	ND	H	0.0030	0.0092	1	09/06/2017 14:05
Chloromethane	ND	H	0.0031	0.0092	1	09/06/2017 14:05
2-Chlorotoluene	ND	H	0.0041	0.0092	1	09/06/2017 14:05
4-Chlorotoluene	ND	H	0.0039	0.0092	1	09/06/2017 14:05
Dibromochloromethane	ND	H	0.0020	0.0092	1	09/06/2017 14:05
1,2-Dibromo-3-chloropropane	ND	H	0.0022	0.0074	1	09/06/2017 14:05
1,2-Dibromoethane (EDB)	ND	H	0.0024	0.0074	1	09/06/2017 14:05
Dibromomethane	ND	H	0.0026	0.0092	1	09/06/2017 14:05
1,2-Dichlorobenzene	ND	H	0.0026	0.0092	1	09/06/2017 14:05
1,3-Dichlorobenzene	ND	H	0.0033	0.0092	1	09/06/2017 14:05
1,4-Dichlorobenzene	ND	H	0.0033	0.0092	1	09/06/2017 14:05
Dichlorodifluoromethane	ND	H	0.0020	0.0092	1	09/06/2017 14:05
1,1-Dichloroethane	ND	H	0.0031	0.0092	1	09/06/2017 14:05
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0026	0.0092	1	09/06/2017 14:05
1,1-Dichloroethene	ND	H	0.0031	0.0092	1	09/06/2017 14:05
cis-1,2-Dichloroethene	ND	H	0.0028	0.0092	1	09/06/2017 14:05
trans-1,2-Dichloroethene	ND	H	0.0030	0.0092	1	09/06/2017 14:05
1,2-Dichloropropane	ND	H	0.0026	0.0092	1	09/06/2017 14:05
1,3-Dichloropropane	ND	H	0.0030	0.0092	1	09/06/2017 14:05
2,2-Dichloropropane	ND	H	0.0024	0.0092	1	09/06/2017 14:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 4 feet	1709045-012A	Soil	08/30/2017 12:10	GC10 09061711.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0033	0.0092	1	09/06/2017 14:05
cis-1,3-Dichloropropene	ND	H	0.0028	0.0092	1	09/06/2017 14:05
trans-1,3-Dichloropropene	ND	H	0.0026	0.0092	1	09/06/2017 14:05
Diisopropyl ether (DIPE)	ND	H	0.0026	0.0092	1	09/06/2017 14:05
Ethylbenzene	ND	H	0.0037	0.0092	1	09/06/2017 14:05
Ethyl tert-butyl ether (ETBE)	ND	H	0.0024	0.0092	1	09/06/2017 14:05
Freon 113	ND	H	0.0030	0.0092	1	09/06/2017 14:05
Hexachlorobutadiene	ND	H	0.0092	0.0092	1	09/06/2017 14:05
Hexachloroethane	0.0087	JH	0.0046	0.0092	1	09/06/2017 14:05
2-Hexanone	ND	H	0.0046	0.0092	1	09/06/2017 14:05
Isopropylbenzene	ND	H	0.0041	0.0092	1	09/06/2017 14:05
4-Isopropyl toluene	ND	H	0.0057	0.0092	1	09/06/2017 14:05
Methyl-t-butyl ether (MTBE)	ND	H	0.0024	0.0092	1	09/06/2017 14:05
Methylene chloride	ND	H	0.0066	0.0092	1	09/06/2017 14:05
4-Methyl-2-pentanone (MIBK)	ND	H	0.0015	0.0092	1	09/06/2017 14:05
Naphthalene	0.0064	JH	0.0011	0.0092	1	09/06/2017 14:05
n-Propyl benzene	ND	H	0.0054	0.0092	1	09/06/2017 14:05
Styrene	ND	H	0.0026	0.0092	1	09/06/2017 14:05
1,1,1,2-Tetrachloroethane	ND	H	0.0030	0.0092	1	09/06/2017 14:05
1,1,2,2-Tetrachloroethane	ND	H	0.0024	0.0092	1	09/06/2017 14:05
Tetrachloroethene	ND	H	0.0042	0.0092	1	09/06/2017 14:05
Toluene	ND	H	0.0041	0.0092	1	09/06/2017 14:05
1,2,3-Trichlorobenzene	ND	H	0.0013	0.0092	1	09/06/2017 14:05
1,2,4-Trichlorobenzene	ND	H	0.0020	0.0092	1	09/06/2017 14:05
1,1,1-Trichloroethane	ND	H	0.0033	0.0092	1	09/06/2017 14:05
1,1,2-Trichloroethane	ND	H	0.0030	0.0092	1	09/06/2017 14:05
Trichloroethene	ND	H	0.0031	0.0092	1	09/06/2017 14:05
Trichlorofluoromethane	ND	H	0.0030	0.0092	1	09/06/2017 14:05
1,2,3-Trichloropropane	ND	H	0.0035	0.0092	1	09/06/2017 14:05
1,2,4-Trimethylbenzene	ND	H	0.0044	0.0092	1	09/06/2017 14:05
1,3,5-Trimethylbenzene	ND	H	0.0050	0.0092	1	09/06/2017 14:05
Vinyl Chloride	ND	H	0.0028	0.0092	1	09/06/2017 14:05
Xylenes, Total	ND	H	0.0046	0.0092	1	09/06/2017 14:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 4 feet	1709045-012A	Soil	08/30/2017 12:10	GC10 09061711.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 14:05
Toluene-d8	116	H		70-130		09/06/2017 14:05
4-BFB	107	H		70-130		09/06/2017 14:05
Benzene-d6	87	H		60-140		09/06/2017 14:05
Ethylbenzene-d10	92	H		60-140		09/06/2017 14:05
1,2-DCB-d4	73	H		60-140		09/06/2017 14:05

Analyst(s): AK

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 8 feet	1709045-013A	Soil	08/30/2017 12:13	GC10 09061712.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.066	0.17	1	09/06/2017 14:46
tert-Amyl methyl ether (TAME)	ND	H	0.0017	0.0084	1	09/06/2017 14:46
Benzene	ND	H	0.0027	0.0084	1	09/06/2017 14:46
Bromobenzene	ND	H	0.0029	0.0084	1	09/06/2017 14:46
Bromochloromethane	ND	H	0.0025	0.0084	1	09/06/2017 14:46
Bromodichloromethane	ND	H	0.0020	0.0084	1	09/06/2017 14:46
Bromoform	ND	H	0.0013	0.0084	1	09/06/2017 14:46
Bromomethane	ND	H	0.0034	0.0084	1	09/06/2017 14:46
2-Butanone (MEK)	0.013	JH	0.0091	0.034	1	09/06/2017 14:46
t-Butyl alcohol (TBA)	ND	H	0.0089	0.084	1	09/06/2017 14:46
n-Butyl benzene	ND	H	0.0059	0.0084	1	09/06/2017 14:46
sec-Butyl benzene	ND	H	0.0057	0.0084	1	09/06/2017 14:46
tert-Butyl benzene	ND	H	0.0051	0.0084	1	09/06/2017 14:46
Carbon Disulfide	ND	H	0.0029	0.0084	1	09/06/2017 14:46
Carbon Tetrachloride	ND	H	0.0029	0.0084	1	09/06/2017 14:46
Chlorobenzene	ND	H	0.0030	0.0084	1	09/06/2017 14:46
Chloroethane	ND	H	0.0027	0.0084	1	09/06/2017 14:46
Chloroform	ND	H	0.0027	0.0084	1	09/06/2017 14:46
Chloromethane	ND	H	0.0029	0.0084	1	09/06/2017 14:46
2-Chlorotoluene	ND	H	0.0037	0.0084	1	09/06/2017 14:46
4-Chlorotoluene	ND	H	0.0035	0.0084	1	09/06/2017 14:46
Dibromochloromethane	0.0021	JH	0.0019	0.0084	1	09/06/2017 14:46
1,2-Dibromo-3-chloropropane	ND	H	0.0020	0.0067	1	09/06/2017 14:46
1,2-Dibromoethane (EDB)	ND	H	0.0022	0.0067	1	09/06/2017 14:46
Dibromomethane	ND	H	0.0024	0.0084	1	09/06/2017 14:46
1,2-Dichlorobenzene	ND	H	0.0024	0.0084	1	09/06/2017 14:46
1,3-Dichlorobenzene	ND	H	0.0030	0.0084	1	09/06/2017 14:46
1,4-Dichlorobenzene	ND	H	0.0030	0.0084	1	09/06/2017 14:46
Dichlorodifluoromethane	ND	H	0.0019	0.0084	1	09/06/2017 14:46
1,1-Dichloroethane	ND	H	0.0029	0.0084	1	09/06/2017 14:46
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0024	0.0084	1	09/06/2017 14:46
1,1-Dichloroethene	ND	H	0.0029	0.0084	1	09/06/2017 14:46
cis-1,2-Dichloroethene	ND	H	0.0025	0.0084	1	09/06/2017 14:46
trans-1,2-Dichloroethene	ND	H	0.0027	0.0084	1	09/06/2017 14:46
1,2-Dichloropropane	ND	H	0.0024	0.0084	1	09/06/2017 14:46
1,3-Dichloropropane	ND	H	0.0027	0.0084	1	09/06/2017 14:46
2,2-Dichloropropane	ND	H	0.0022	0.0084	1	09/06/2017 14:46

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 8 feet	1709045-013A	Soil	08/30/2017 12:13	GC10 09061712.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0030	0.0084	1	09/06/2017 14:46
cis-1,3-Dichloropropene	ND	H	0.0025	0.0084	1	09/06/2017 14:46
trans-1,3-Dichloropropene	ND	H	0.0024	0.0084	1	09/06/2017 14:46
Diisopropyl ether (DIPE)	ND	H	0.0024	0.0084	1	09/06/2017 14:46
Ethylbenzene	ND	H	0.0034	0.0084	1	09/06/2017 14:46
Ethyl tert-butyl ether (ETBE)	ND	H	0.0022	0.0084	1	09/06/2017 14:46
Freon 113	ND	H	0.0027	0.0084	1	09/06/2017 14:46
Hexachlorobutadiene	ND	H	0.0084	0.0084	1	09/06/2017 14:46
Hexachloroethane	ND	H	0.0042	0.0084	1	09/06/2017 14:46
2-Hexanone	ND	H	0.0042	0.0084	1	09/06/2017 14:46
Isopropylbenzene	ND	H	0.0037	0.0084	1	09/06/2017 14:46
4-Isopropyl toluene	ND	H	0.0052	0.0084	1	09/06/2017 14:46
Methyl-t-butyl ether (MTBE)	ND	H	0.0022	0.0084	1	09/06/2017 14:46
Methylene chloride	ND	H	0.0061	0.0084	1	09/06/2017 14:46
4-Methyl-2-pentanone (MIBK)	ND	H	0.0013	0.0084	1	09/06/2017 14:46
Naphthalene	0.0036	JH	0.0010	0.0084	1	09/06/2017 14:46
n-Propyl benzene	ND	H	0.0049	0.0084	1	09/06/2017 14:46
Styrene	ND	H	0.0024	0.0084	1	09/06/2017 14:46
1,1,1,2-Tetrachloroethane	ND	H	0.0027	0.0084	1	09/06/2017 14:46
1,1,2,2-Tetrachloroethane	0.0024	JH	0.0022	0.0084	1	09/06/2017 14:46
Tetrachloroethene	ND	H	0.0039	0.0084	1	09/06/2017 14:46
Toluene	ND	H	0.0037	0.0084	1	09/06/2017 14:46
1,2,3-Trichlorobenzene	ND	H	0.0012	0.0084	1	09/06/2017 14:46
1,2,4-Trichlorobenzene	ND	H	0.0019	0.0084	1	09/06/2017 14:46
1,1,1-Trichloroethane	ND	H	0.0030	0.0084	1	09/06/2017 14:46
1,1,2-Trichloroethane	ND	H	0.0027	0.0084	1	09/06/2017 14:46
Trichloroethene	ND	H	0.0029	0.0084	1	09/06/2017 14:46
Trichlorofluoromethane	ND	H	0.0027	0.0084	1	09/06/2017 14:46
1,2,3-Trichloropropane	ND	H	0.0032	0.0084	1	09/06/2017 14:46
1,2,4-Trimethylbenzene	ND	H	0.0040	0.0084	1	09/06/2017 14:46
1,3,5-Trimethylbenzene	ND	H	0.0046	0.0084	1	09/06/2017 14:46
Vinyl Chloride	ND	H	0.0025	0.0084	1	09/06/2017 14:46
Xylenes, Total	ND	H	0.0042	0.0084	1	09/06/2017 14:46

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 8 feet	1709045-013A	Soil	08/30/2017 12:13	GC10 09061712.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	110	H		70-130		09/06/2017 14:46
Toluene-d8	117	H		70-130		09/06/2017 14:46
4-BFB	124	H		70-130		09/06/2017 14:46
Benzene-d6	95	H		60-140		09/06/2017 14:46
Ethylbenzene-d10	101	H		60-140		09/06/2017 14:46
1,2-DCB-d4	86	H		60-140		09/06/2017 14:46

Analyst(s): AK

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 4 feet	1709045-016A	Soil	08/30/2017 11:15	GC10 09061713.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.095	0.24	1	09/06/2017 15:27
tert-Amyl methyl ether (TAME)	ND	H	0.0024	0.012	1	09/06/2017 15:27
Benzene	ND	H	0.0039	0.012	1	09/06/2017 15:27
Bromobenzene	ND	H	0.0041	0.012	1	09/06/2017 15:27
Bromochloromethane	ND	H	0.0036	0.012	1	09/06/2017 15:27
Bromodichloromethane	ND	H	0.0029	0.012	1	09/06/2017 15:27
Bromoform	ND	H	0.0019	0.012	1	09/06/2017 15:27
Bromomethane	ND	H	0.0049	0.012	1	09/06/2017 15:27
2-Butanone (MEK)	ND	H	0.013	0.049	1	09/06/2017 15:27
t-Butyl alcohol (TBA)	ND	H	0.013	0.12	1	09/06/2017 15:27
n-Butyl benzene	ND	H	0.0085	0.012	1	09/06/2017 15:27
sec-Butyl benzene	ND	H	0.0083	0.012	1	09/06/2017 15:27
tert-Butyl benzene	ND	H	0.0073	0.012	1	09/06/2017 15:27
Carbon Disulfide	ND	H	0.0041	0.012	1	09/06/2017 15:27
Carbon Tetrachloride	ND	H	0.0041	0.012	1	09/06/2017 15:27
Chlorobenzene	ND	H	0.0044	0.012	1	09/06/2017 15:27
Chloroethane	ND	H	0.0039	0.012	1	09/06/2017 15:27
Chloroform	ND	H	0.0039	0.012	1	09/06/2017 15:27
Chloromethane	ND	H	0.0041	0.012	1	09/06/2017 15:27
2-Chlorotoluene	ND	H	0.0053	0.012	1	09/06/2017 15:27
4-Chlorotoluene	ND	H	0.0051	0.012	1	09/06/2017 15:27
Dibromochloromethane	ND	H	0.0027	0.012	1	09/06/2017 15:27
1,2-Dibromo-3-chloropropane	0.0076	JH	0.0029	0.0097	1	09/06/2017 15:27
1,2-Dibromoethane (EDB)	ND	H	0.0032	0.0097	1	09/06/2017 15:27
Dibromomethane	ND	H	0.0034	0.012	1	09/06/2017 15:27
1,2-Dichlorobenzene	ND	H	0.0034	0.012	1	09/06/2017 15:27
1,3-Dichlorobenzene	ND	H	0.0044	0.012	1	09/06/2017 15:27
1,4-Dichlorobenzene	ND	H	0.0044	0.012	1	09/06/2017 15:27
Dichlorodifluoromethane	ND	H	0.0027	0.012	1	09/06/2017 15:27
1,1-Dichloroethane	ND	H	0.0041	0.012	1	09/06/2017 15:27
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0034	0.012	1	09/06/2017 15:27
1,1-Dichloroethene	ND	H	0.0041	0.012	1	09/06/2017 15:27
cis-1,2-Dichloroethene	ND	H	0.0036	0.012	1	09/06/2017 15:27
trans-1,2-Dichloroethene	ND	H	0.0039	0.012	1	09/06/2017 15:27
1,2-Dichloropropane	ND	H	0.0034	0.012	1	09/06/2017 15:27
1,3-Dichloropropane	ND	H	0.0039	0.012	1	09/06/2017 15:27
2,2-Dichloropropane	ND	H	0.0032	0.012	1	09/06/2017 15:27

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 4 feet	1709045-016A	Soil	08/30/2017 11:15	GC10 09061713.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0044	0.012	1	09/06/2017 15:27
cis-1,3-Dichloropropene	ND	H	0.0036	0.012	1	09/06/2017 15:27
trans-1,3-Dichloropropene	ND	H	0.0034	0.012	1	09/06/2017 15:27
Diisopropyl ether (DIPE)	ND	H	0.0034	0.012	1	09/06/2017 15:27
Ethylbenzene	ND	H	0.0049	0.012	1	09/06/2017 15:27
Ethyl tert-butyl ether (ETBE)	ND	H	0.0032	0.012	1	09/06/2017 15:27
Freon 113	ND	H	0.0039	0.012	1	09/06/2017 15:27
Hexachlorobutadiene	ND	H	0.012	0.012	1	09/06/2017 15:27
Hexachloroethane	ND	H	0.0061	0.012	1	09/06/2017 15:27
2-Hexanone	ND	H	0.0061	0.012	1	09/06/2017 15:27
Isopropylbenzene	ND	H	0.0053	0.012	1	09/06/2017 15:27
4-Isopropyl toluene	ND	H	0.0075	0.012	1	09/06/2017 15:27
Methyl-t-butyl ether (MTBE)	ND	H	0.0032	0.012	1	09/06/2017 15:27
Methylene chloride	ND	H	0.0087	0.012	1	09/06/2017 15:27
4-Methyl-2-pentanone (MIBK)	ND	H	0.0019	0.012	1	09/06/2017 15:27
Naphthalene	ND	H	0.0015	0.012	1	09/06/2017 15:27
n-Propyl benzene	ND	H	0.0070	0.012	1	09/06/2017 15:27
Styrene	ND	H	0.0034	0.012	1	09/06/2017 15:27
1,1,1,2-Tetrachloroethane	ND	H	0.0039	0.012	1	09/06/2017 15:27
1,1,2,2-Tetrachloroethane	ND	H	0.0032	0.012	1	09/06/2017 15:27
Tetrachloroethene	ND	H	0.0056	0.012	1	09/06/2017 15:27
Toluene	ND	H	0.0053	0.012	1	09/06/2017 15:27
1,2,3-Trichlorobenzene	ND	H	0.0017	0.012	1	09/06/2017 15:27
1,2,4-Trichlorobenzene	ND	H	0.0027	0.012	1	09/06/2017 15:27
1,1,1-Trichloroethane	ND	H	0.0044	0.012	1	09/06/2017 15:27
1,1,2-Trichloroethane	ND	H	0.0039	0.012	1	09/06/2017 15:27
Trichloroethene	ND	H	0.0041	0.012	1	09/06/2017 15:27
Trichlorofluoromethane	0.072	H	0.0039	0.012	1	09/06/2017 15:27
1,2,3-Trichloropropane	ND	H	0.0046	0.012	1	09/06/2017 15:27
1,2,4-Trimethylbenzene	0.049	H	0.0058	0.012	1	09/06/2017 15:27
1,3,5-Trimethylbenzene	0.015	H	0.0066	0.012	1	09/06/2017 15:27
Vinyl Chloride	ND	H	0.0036	0.012	1	09/06/2017 15:27
Xylenes, Total	ND	H	0.0061	0.012	1	09/06/2017 15:27

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 4 feet	1709045-016A	Soil	08/30/2017 11:15	GC10 09061713.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	108	H		70-130		09/06/2017 15:27
Toluene-d8	120	H		70-130		09/06/2017 15:27
4-BFB	113	H		70-130		09/06/2017 15:27
Benzene-d6	88	H		60-140		09/06/2017 15:27
Ethylbenzene-d10	89	H		60-140		09/06/2017 15:27
1,2-DCB-d4	72	H		60-140		09/06/2017 15:27

Analyst(s): AK

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 8 feet	1709045-017A	Soil	08/30/2017 11:18	GC10 09061714.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.064	0.16	1	09/06/2017 16:07
tert-Amyl methyl ether (TAME)	ND	H	0.0016	0.0082	1	09/06/2017 16:07
Benzene	ND	H	0.0026	0.0082	1	09/06/2017 16:07
Bromobenzene	ND	H	0.0028	0.0082	1	09/06/2017 16:07
Bromochloromethane	ND	H	0.0025	0.0082	1	09/06/2017 16:07
Bromodichloromethane	ND	H	0.0020	0.0082	1	09/06/2017 16:07
Bromoform	ND	H	0.0013	0.0082	1	09/06/2017 16:07
Bromomethane	ND	H	0.0033	0.0082	1	09/06/2017 16:07
2-Butanone (MEK)	0.011	JH	0.0088	0.033	1	09/06/2017 16:07
t-Butyl alcohol (TBA)	ND	H	0.0087	0.082	1	09/06/2017 16:07
n-Butyl benzene	ND	H	0.0057	0.0082	1	09/06/2017 16:07
sec-Butyl benzene	ND	H	0.0056	0.0082	1	09/06/2017 16:07
tert-Butyl benzene	ND	H	0.0049	0.0082	1	09/06/2017 16:07
Carbon Disulfide	ND	H	0.0028	0.0082	1	09/06/2017 16:07
Carbon Tetrachloride	ND	H	0.0028	0.0082	1	09/06/2017 16:07
Chlorobenzene	ND	H	0.0029	0.0082	1	09/06/2017 16:07
Chloroethane	ND	H	0.0026	0.0082	1	09/06/2017 16:07
Chloroform	ND	H	0.0026	0.0082	1	09/06/2017 16:07
Chloromethane	ND	H	0.0028	0.0082	1	09/06/2017 16:07
2-Chlorotoluene	ND	H	0.0036	0.0082	1	09/06/2017 16:07
4-Chlorotoluene	ND	H	0.0034	0.0082	1	09/06/2017 16:07
Dibromochloromethane	ND	H	0.0018	0.0082	1	09/06/2017 16:07
1,2-Dibromo-3-chloropropane	ND	H	0.0020	0.0065	1	09/06/2017 16:07
1,2-Dibromoethane (EDB)	ND	H	0.0021	0.0065	1	09/06/2017 16:07
Dibromomethane	ND	H	0.0023	0.0082	1	09/06/2017 16:07
1,2-Dichlorobenzene	ND	H	0.0023	0.0082	1	09/06/2017 16:07
1,3-Dichlorobenzene	ND	H	0.0029	0.0082	1	09/06/2017 16:07
1,4-Dichlorobenzene	ND	H	0.0029	0.0082	1	09/06/2017 16:07
Dichlorodifluoromethane	ND	H	0.0018	0.0082	1	09/06/2017 16:07
1,1-Dichloroethane	ND	H	0.0028	0.0082	1	09/06/2017 16:07
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0023	0.0082	1	09/06/2017 16:07
1,1-Dichloroethene	ND	H	0.0028	0.0082	1	09/06/2017 16:07
cis-1,2-Dichloroethene	ND	H	0.0025	0.0082	1	09/06/2017 16:07
trans-1,2-Dichloroethene	ND	H	0.0026	0.0082	1	09/06/2017 16:07
1,2-Dichloropropane	ND	H	0.0023	0.0082	1	09/06/2017 16:07
1,3-Dichloropropane	ND	H	0.0026	0.0082	1	09/06/2017 16:07
2,2-Dichloropropane	ND	H	0.0021	0.0082	1	09/06/2017 16:07

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 8 feet	1709045-017A	Soil	08/30/2017 11:18	GC10 09061714.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0029	0.0082	1	09/06/2017 16:07
cis-1,3-Dichloropropene	ND	H	0.0025	0.0082	1	09/06/2017 16:07
trans-1,3-Dichloropropene	ND	H	0.0023	0.0082	1	09/06/2017 16:07
Diisopropyl ether (DIPE)	ND	H	0.0023	0.0082	1	09/06/2017 16:07
Ethylbenzene	ND	H	0.0033	0.0082	1	09/06/2017 16:07
Ethyl tert-butyl ether (ETBE)	ND	H	0.0021	0.0082	1	09/06/2017 16:07
Freon 113	ND	H	0.0026	0.0082	1	09/06/2017 16:07
Hexachlorobutadiene	ND	H	0.0082	0.0082	1	09/06/2017 16:07
Hexachloroethane	ND	H	0.0041	0.0082	1	09/06/2017 16:07
2-Hexanone	ND	H	0.0041	0.0082	1	09/06/2017 16:07
Isopropylbenzene	ND	H	0.0036	0.0082	1	09/06/2017 16:07
4-Isopropyl toluene	ND	H	0.0051	0.0082	1	09/06/2017 16:07
Methyl-t-butyl ether (MTBE)	ND	H	0.0021	0.0082	1	09/06/2017 16:07
Methylene chloride	ND	H	0.0059	0.0082	1	09/06/2017 16:07
4-Methyl-2-pentanone (MIBK)	ND	H	0.0013	0.0082	1	09/06/2017 16:07
Naphthalene	ND	H	0.00098	0.0082	1	09/06/2017 16:07
n-Propyl benzene	ND	H	0.0047	0.0082	1	09/06/2017 16:07
Styrene	ND	H	0.0023	0.0082	1	09/06/2017 16:07
1,1,1,2-Tetrachloroethane	ND	H	0.0026	0.0082	1	09/06/2017 16:07
1,1,2,2-Tetrachloroethane	ND	H	0.0021	0.0082	1	09/06/2017 16:07
Tetrachloroethene	ND	H	0.0038	0.0082	1	09/06/2017 16:07
Toluene	ND	H	0.0036	0.0082	1	09/06/2017 16:07
1,2,3-Trichlorobenzene	ND	H	0.0011	0.0082	1	09/06/2017 16:07
1,2,4-Trichlorobenzene	ND	H	0.0018	0.0082	1	09/06/2017 16:07
1,1,1-Trichloroethane	ND	H	0.0029	0.0082	1	09/06/2017 16:07
1,1,2-Trichloroethane	ND	H	0.0026	0.0082	1	09/06/2017 16:07
Trichloroethene	ND	H	0.0028	0.0082	1	09/06/2017 16:07
Trichlorofluoromethane	ND	H	0.0026	0.0082	1	09/06/2017 16:07
1,2,3-Trichloropropane	ND	H	0.0031	0.0082	1	09/06/2017 16:07
1,2,4-Trimethylbenzene	ND	H	0.0039	0.0082	1	09/06/2017 16:07
1,3,5-Trimethylbenzene	ND	H	0.0044	0.0082	1	09/06/2017 16:07
Vinyl Chloride	ND	H	0.0025	0.0082	1	09/06/2017 16:07
Xylenes, Total	ND	H	0.0041	0.0082	1	09/06/2017 16:07

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 8 feet	1709045-017A	Soil	08/30/2017 11:18	GC10 09061714.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 16:07
Toluene-d8	117	H		70-130		09/06/2017 16:07
4-BFB	103	H		70-130		09/06/2017 16:07
Benzene-d6	91	H		60-140		09/06/2017 16:07
Ethylbenzene-d10	99	H		60-140		09/06/2017 16:07
1,2-DCB-d4	78	H		60-140		09/06/2017 16:07

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 4 feet	1709045-021A	Soil	08/30/2017 13:55	GC10 09061716.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.070	0.18	1	09/06/2017 17:28
tert-Amyl methyl ether (TAME)	ND	H	0.0018	0.0090	1	09/06/2017 17:28
Benzene	ND	H	0.0029	0.0090	1	09/06/2017 17:28
Bromobenzene	ND	H	0.0031	0.0090	1	09/06/2017 17:28
Bromochloromethane	ND	H	0.0027	0.0090	1	09/06/2017 17:28
Bromodichloromethane	ND	H	0.0022	0.0090	1	09/06/2017 17:28
Bromoform	ND	H	0.0014	0.0090	1	09/06/2017 17:28
Bromomethane	ND	H	0.0036	0.0090	1	09/06/2017 17:28
2-Butanone (MEK)	0.011	JH	0.0097	0.036	1	09/06/2017 17:28
t-Butyl alcohol (TBA)	ND	H	0.0095	0.090	1	09/06/2017 17:28
n-Butyl benzene	ND	H	0.0063	0.0090	1	09/06/2017 17:28
sec-Butyl benzene	ND	H	0.0061	0.0090	1	09/06/2017 17:28
tert-Butyl benzene	ND	H	0.0054	0.0090	1	09/06/2017 17:28
Carbon Disulfide	ND	H	0.0031	0.0090	1	09/06/2017 17:28
Carbon Tetrachloride	ND	H	0.0031	0.0090	1	09/06/2017 17:28
Chlorobenzene	ND	H	0.0032	0.0090	1	09/06/2017 17:28
Chloroethane	ND	H	0.0029	0.0090	1	09/06/2017 17:28
Chloroform	ND	H	0.0029	0.0090	1	09/06/2017 17:28
Chloromethane	ND	H	0.0031	0.0090	1	09/06/2017 17:28
2-Chlorotoluene	ND	H	0.0040	0.0090	1	09/06/2017 17:28
4-Chlorotoluene	ND	H	0.0038	0.0090	1	09/06/2017 17:28
Dibromochloromethane	ND	H	0.0020	0.0090	1	09/06/2017 17:28
1,2-Dibromo-3-chloropropane	ND	H	0.0022	0.0072	1	09/06/2017 17:28
1,2-Dibromoethane (EDB)	ND	H	0.0023	0.0072	1	09/06/2017 17:28
Dibromomethane	ND	H	0.0025	0.0090	1	09/06/2017 17:28
1,2-Dichlorobenzene	ND	H	0.0025	0.0090	1	09/06/2017 17:28
1,3-Dichlorobenzene	ND	H	0.0032	0.0090	1	09/06/2017 17:28
1,4-Dichlorobenzene	ND	H	0.0032	0.0090	1	09/06/2017 17:28
Dichlorodifluoromethane	ND	H	0.0020	0.0090	1	09/06/2017 17:28
1,1-Dichloroethane	ND	H	0.0031	0.0090	1	09/06/2017 17:28
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0025	0.0090	1	09/06/2017 17:28
1,1-Dichloroethene	ND	H	0.0031	0.0090	1	09/06/2017 17:28
cis-1,2-Dichloroethene	ND	H	0.0027	0.0090	1	09/06/2017 17:28
trans-1,2-Dichloroethene	ND	H	0.0029	0.0090	1	09/06/2017 17:28
1,2-Dichloropropane	ND	H	0.0025	0.0090	1	09/06/2017 17:28
1,3-Dichloropropane	ND	H	0.0029	0.0090	1	09/06/2017 17:28
2,2-Dichloropropane	ND	H	0.0023	0.0090	1	09/06/2017 17:28

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 4 feet	1709045-021A	Soil	08/30/2017 13:55	GC10 09061716.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0032	0.0090	1	09/06/2017 17:28
cis-1,3-Dichloropropene	ND	H	0.0027	0.0090	1	09/06/2017 17:28
trans-1,3-Dichloropropene	ND	H	0.0025	0.0090	1	09/06/2017 17:28
Diisopropyl ether (DIPE)	ND	H	0.0025	0.0090	1	09/06/2017 17:28
Ethylbenzene	ND	H	0.0036	0.0090	1	09/06/2017 17:28
Ethyl tert-butyl ether (ETBE)	ND	H	0.0023	0.0090	1	09/06/2017 17:28
Freon 113	ND	H	0.0029	0.0090	1	09/06/2017 17:28
Hexachlorobutadiene	ND	H	0.0090	0.0090	1	09/06/2017 17:28
Hexachloroethane	ND	H	0.0045	0.0090	1	09/06/2017 17:28
2-Hexanone	ND	H	0.0045	0.0090	1	09/06/2017 17:28
Isopropylbenzene	ND	H	0.0040	0.0090	1	09/06/2017 17:28
4-Isopropyl toluene	ND	H	0.0056	0.0090	1	09/06/2017 17:28
Methyl-t-butyl ether (MTBE)	ND	H	0.0023	0.0090	1	09/06/2017 17:28
Methylene chloride	ND	H	0.0065	0.0090	1	09/06/2017 17:28
4-Methyl-2-pentanone (MIBK)	ND	H	0.0014	0.0090	1	09/06/2017 17:28
Naphthalene	ND	H	0.0011	0.0090	1	09/06/2017 17:28
n-Propyl benzene	ND	H	0.0052	0.0090	1	09/06/2017 17:28
Styrene	ND	H	0.0025	0.0090	1	09/06/2017 17:28
1,1,1,2-Tetrachloroethane	ND	H	0.0029	0.0090	1	09/06/2017 17:28
1,1,2,2-Tetrachloroethane	ND	H	0.0023	0.0090	1	09/06/2017 17:28
Tetrachloroethene	ND	H	0.0041	0.0090	1	09/06/2017 17:28
Toluene	ND	H	0.0040	0.0090	1	09/06/2017 17:28
1,2,3-Trichlorobenzene	ND	H	0.0013	0.0090	1	09/06/2017 17:28
1,2,4-Trichlorobenzene	ND	H	0.0020	0.0090	1	09/06/2017 17:28
1,1,1-Trichloroethane	ND	H	0.0032	0.0090	1	09/06/2017 17:28
1,1,2-Trichloroethane	ND	H	0.0029	0.0090	1	09/06/2017 17:28
Trichloroethene	ND	H	0.0031	0.0090	1	09/06/2017 17:28
Trichlorofluoromethane	ND	H	0.0029	0.0090	1	09/06/2017 17:28
1,2,3-Trichloropropane	ND	H	0.0034	0.0090	1	09/06/2017 17:28
1,2,4-Trimethylbenzene	ND	H	0.0043	0.0090	1	09/06/2017 17:28
1,3,5-Trimethylbenzene	ND	H	0.0049	0.0090	1	09/06/2017 17:28
Vinyl Chloride	ND	H	0.0027	0.0090	1	09/06/2017 17:28
Xylenes, Total	ND	H	0.0045	0.0090	1	09/06/2017 17:28

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 4 feet	1709045-021A	Soil	08/30/2017 13:55	GC10 09061716.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 17:28
Toluene-d8	120	H		70-130		09/06/2017 17:28
4-BFB	99	H		70-130		09/06/2017 17:28
Benzene-d6	90	H		60-140		09/06/2017 17:28
Ethylbenzene-d10	98	H		60-140		09/06/2017 17:28
1,2-DCB-d4	75	H		60-140		09/06/2017 17:28

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 8 feet	1709045-022A	Soil	08/30/2017 14:00	GC10 09061724.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.066	0.17	1	09/06/2017 23:05
tert-Amyl methyl ether (TAME)	ND	H	0.0017	0.0084	1	09/06/2017 23:05
Benzene	ND	H	0.0027	0.0084	1	09/06/2017 23:05
Bromobenzene	ND	H	0.0029	0.0084	1	09/06/2017 23:05
Bromochloromethane	ND	H	0.0025	0.0084	1	09/06/2017 23:05
Bromodichloromethane	ND	H	0.0020	0.0084	1	09/06/2017 23:05
Bromoform	ND	H	0.0013	0.0084	1	09/06/2017 23:05
Bromomethane	ND	H	0.0034	0.0084	1	09/06/2017 23:05
2-Butanone (MEK)	ND	H	0.0091	0.034	1	09/06/2017 23:05
t-Butyl alcohol (TBA)	ND	H	0.0089	0.084	1	09/06/2017 23:05
n-Butyl benzene	ND	H	0.0059	0.0084	1	09/06/2017 23:05
sec-Butyl benzene	ND	H	0.0057	0.0084	1	09/06/2017 23:05
tert-Butyl benzene	ND	H	0.0050	0.0084	1	09/06/2017 23:05
Carbon Disulfide	ND	H	0.0029	0.0084	1	09/06/2017 23:05
Carbon Tetrachloride	ND	H	0.0029	0.0084	1	09/06/2017 23:05
Chlorobenzene	ND	H	0.0030	0.0084	1	09/06/2017 23:05
Chloroethane	ND	H	0.0027	0.0084	1	09/06/2017 23:05
Chloroform	ND	H	0.0027	0.0084	1	09/06/2017 23:05
Chloromethane	ND	H	0.0029	0.0084	1	09/06/2017 23:05
2-Chlorotoluene	ND	H	0.0037	0.0084	1	09/06/2017 23:05
4-Chlorotoluene	ND	H	0.0035	0.0084	1	09/06/2017 23:05
Dibromochloromethane	ND	H	0.0018	0.0084	1	09/06/2017 23:05
1,2-Dibromo-3-chloropropane	ND	H	0.0020	0.0067	1	09/06/2017 23:05
1,2-Dibromoethane (EDB)	ND	H	0.0022	0.0067	1	09/06/2017 23:05
Dibromomethane	ND	H	0.0024	0.0084	1	09/06/2017 23:05
1,2-Dichlorobenzene	ND	H	0.0024	0.0084	1	09/06/2017 23:05
1,3-Dichlorobenzene	ND	H	0.0030	0.0084	1	09/06/2017 23:05
1,4-Dichlorobenzene	ND	H	0.0030	0.0084	1	09/06/2017 23:05
Dichlorodifluoromethane	ND	H	0.0018	0.0084	1	09/06/2017 23:05
1,1-Dichloroethane	ND	H	0.0029	0.0084	1	09/06/2017 23:05
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0024	0.0084	1	09/06/2017 23:05
1,1-Dichloroethene	ND	H	0.0029	0.0084	1	09/06/2017 23:05
cis-1,2-Dichloroethene	ND	H	0.0025	0.0084	1	09/06/2017 23:05
trans-1,2-Dichloroethene	ND	H	0.0027	0.0084	1	09/06/2017 23:05
1,2-Dichloropropane	ND	H	0.0024	0.0084	1	09/06/2017 23:05
1,3-Dichloropropane	ND	H	0.0027	0.0084	1	09/06/2017 23:05
2,2-Dichloropropane	ND	H	0.0022	0.0084	1	09/06/2017 23:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 8 feet	1709045-022A	Soil	08/30/2017 14:00	GC10 09061724.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0030	0.0084	1	09/06/2017 23:05
cis-1,3-Dichloropropene	ND	H	0.0025	0.0084	1	09/06/2017 23:05
trans-1,3-Dichloropropene	ND	H	0.0024	0.0084	1	09/06/2017 23:05
Diisopropyl ether (DIPE)	ND	H	0.0024	0.0084	1	09/06/2017 23:05
Ethylbenzene	ND	H	0.0034	0.0084	1	09/06/2017 23:05
Ethyl tert-butyl ether (ETBE)	ND	H	0.0022	0.0084	1	09/06/2017 23:05
Freon 113	ND	H	0.0027	0.0084	1	09/06/2017 23:05
Hexachlorobutadiene	ND	H	0.0084	0.0084	1	09/06/2017 23:05
Hexachloroethane	ND	H	0.0042	0.0084	1	09/06/2017 23:05
2-Hexanone	ND	H	0.0042	0.0084	1	09/06/2017 23:05
Isopropylbenzene	ND	H	0.0037	0.0084	1	09/06/2017 23:05
4-Isopropyl toluene	ND	H	0.0052	0.0084	1	09/06/2017 23:05
Methyl-t-butyl ether (MTBE)	ND	H	0.0022	0.0084	1	09/06/2017 23:05
Methylene chloride	ND	H	0.0061	0.0084	1	09/06/2017 23:05
4-Methyl-2-pentanone (MIBK)	ND	H	0.0013	0.0084	1	09/06/2017 23:05
Naphthalene	ND	H	0.0010	0.0084	1	09/06/2017 23:05
n-Propyl benzene	ND	H	0.0049	0.0084	1	09/06/2017 23:05
Styrene	ND	H	0.0024	0.0084	1	09/06/2017 23:05
1,1,1,2-Tetrachloroethane	ND	H	0.0027	0.0084	1	09/06/2017 23:05
1,1,2,2-Tetrachloroethane	ND	H	0.0022	0.0084	1	09/06/2017 23:05
Tetrachloroethene	ND	H	0.0039	0.0084	1	09/06/2017 23:05
Toluene	ND	H	0.0037	0.0084	1	09/06/2017 23:05
1,2,3-Trichlorobenzene	ND	H	0.0012	0.0084	1	09/06/2017 23:05
1,2,4-Trichlorobenzene	ND	H	0.0018	0.0084	1	09/06/2017 23:05
1,1,1-Trichloroethane	ND	H	0.0030	0.0084	1	09/06/2017 23:05
1,1,2-Trichloroethane	ND	H	0.0027	0.0084	1	09/06/2017 23:05
Trichloroethene	ND	H	0.0029	0.0084	1	09/06/2017 23:05
Trichlorofluoromethane	ND	H	0.0027	0.0084	1	09/06/2017 23:05
1,2,3-Trichloropropane	ND	H	0.0032	0.0084	1	09/06/2017 23:05
1,2,4-Trimethylbenzene	ND	H	0.0040	0.0084	1	09/06/2017 23:05
1,3,5-Trimethylbenzene	ND	H	0.0045	0.0084	1	09/06/2017 23:05
Vinyl Chloride	ND	H	0.0025	0.0084	1	09/06/2017 23:05
Xylenes, Total	ND	H	0.0042	0.0084	1	09/06/2017 23:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 8 feet	1709045-022A	Soil	08/30/2017 14:00	GC10 09061724.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 23:05
Toluene-d8	120	H		70-130		09/06/2017 23:05
4-BFB	102	H		70-130		09/06/2017 23:05
Benzene-d6	101	H		60-140		09/06/2017 23:05
Ethylbenzene-d10	108	H		60-140		09/06/2017 23:05
1,2-DCB-d4	82	H		60-140		09/06/2017 23:05

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 4 feet	1709045-025A	Soil	08/30/2017 13:40	GC10 09061725.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.063	0.16	1	09/06/2017 23:45
tert-Amyl methyl ether (TAME)	ND	H	0.0016	0.0081	1	09/06/2017 23:45
Benzene	ND	H	0.0026	0.0081	1	09/06/2017 23:45
Bromobenzene	ND	H	0.0028	0.0081	1	09/06/2017 23:45
Bromochloromethane	ND	H	0.0024	0.0081	1	09/06/2017 23:45
Bromodichloromethane	ND	H	0.0019	0.0081	1	09/06/2017 23:45
Bromoform	ND	H	0.0013	0.0081	1	09/06/2017 23:45
Bromomethane	ND	H	0.0032	0.0081	1	09/06/2017 23:45
2-Butanone (MEK)	ND	H	0.0088	0.032	1	09/06/2017 23:45
t-Butyl alcohol (TBA)	ND	H	0.0086	0.081	1	09/06/2017 23:45
n-Butyl benzene	ND	H	0.0057	0.0081	1	09/06/2017 23:45
sec-Butyl benzene	ND	H	0.0055	0.0081	1	09/06/2017 23:45
tert-Butyl benzene	ND	H	0.0049	0.0081	1	09/06/2017 23:45
Carbon Disulfide	ND	H	0.0028	0.0081	1	09/06/2017 23:45
Carbon Tetrachloride	ND	H	0.0028	0.0081	1	09/06/2017 23:45
Chlorobenzene	ND	H	0.0029	0.0081	1	09/06/2017 23:45
Chloroethane	ND	H	0.0026	0.0081	1	09/06/2017 23:45
Chloroform	ND	H	0.0026	0.0081	1	09/06/2017 23:45
Chloromethane	ND	H	0.0028	0.0081	1	09/06/2017 23:45
2-Chlorotoluene	ND	H	0.0036	0.0081	1	09/06/2017 23:45
4-Chlorotoluene	ND	H	0.0034	0.0081	1	09/06/2017 23:45
Dibromochloromethane	ND	H	0.0018	0.0081	1	09/06/2017 23:45
1,2-Dibromo-3-chloropropane	ND	H	0.0019	0.0065	1	09/06/2017 23:45
1,2-Dibromoethane (EDB)	ND	H	0.0021	0.0065	1	09/06/2017 23:45
Dibromomethane	ND	H	0.0023	0.0081	1	09/06/2017 23:45
1,2-Dichlorobenzene	ND	H	0.0023	0.0081	1	09/06/2017 23:45
1,3-Dichlorobenzene	ND	H	0.0029	0.0081	1	09/06/2017 23:45
1,4-Dichlorobenzene	ND	H	0.0029	0.0081	1	09/06/2017 23:45
Dichlorodifluoromethane	ND	H	0.0018	0.0081	1	09/06/2017 23:45
1,1-Dichloroethane	ND	H	0.0028	0.0081	1	09/06/2017 23:45
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0023	0.0081	1	09/06/2017 23:45
1,1-Dichloroethene	ND	H	0.0028	0.0081	1	09/06/2017 23:45
cis-1,2-Dichloroethene	ND	H	0.0024	0.0081	1	09/06/2017 23:45
trans-1,2-Dichloroethene	ND	H	0.0026	0.0081	1	09/06/2017 23:45
1,2-Dichloropropane	ND	H	0.0023	0.0081	1	09/06/2017 23:45
1,3-Dichloropropane	ND	H	0.0026	0.0081	1	09/06/2017 23:45
2,2-Dichloropropane	ND	H	0.0021	0.0081	1	09/06/2017 23:45

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 4 feet	1709045-025A	Soil	08/30/2017 13:40	GC10 09061725.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0029	0.0081	1	09/06/2017 23:45
cis-1,3-Dichloropropene	ND	H	0.0024	0.0081	1	09/06/2017 23:45
trans-1,3-Dichloropropene	ND	H	0.0023	0.0081	1	09/06/2017 23:45
Diisopropyl ether (DIPE)	ND	H	0.0023	0.0081	1	09/06/2017 23:45
Ethylbenzene	ND	H	0.0032	0.0081	1	09/06/2017 23:45
Ethyl tert-butyl ether (ETBE)	ND	H	0.0021	0.0081	1	09/06/2017 23:45
Freon 113	ND	H	0.0026	0.0081	1	09/06/2017 23:45
Hexachlorobutadiene	ND	H	0.0081	0.0081	1	09/06/2017 23:45
Hexachloroethane	ND	H	0.0041	0.0081	1	09/06/2017 23:45
2-Hexanone	ND	H	0.0041	0.0081	1	09/06/2017 23:45
Isopropylbenzene	ND	H	0.0036	0.0081	1	09/06/2017 23:45
4-Isopropyl toluene	ND	H	0.0050	0.0081	1	09/06/2017 23:45
Methyl-t-butyl ether (MTBE)	ND	H	0.0021	0.0081	1	09/06/2017 23:45
Methylene chloride	ND	H	0.0058	0.0081	1	09/06/2017 23:45
4-Methyl-2-pentanone (MIBK)	ND	H	0.0013	0.0081	1	09/06/2017 23:45
Naphthalene	ND	H	0.00097	0.0081	1	09/06/2017 23:45
n-Propyl benzene	ND	H	0.0047	0.0081	1	09/06/2017 23:45
Styrene	ND	H	0.0023	0.0081	1	09/06/2017 23:45
1,1,1,2-Tetrachloroethane	ND	H	0.0026	0.0081	1	09/06/2017 23:45
1,1,2,2-Tetrachloroethane	ND	H	0.0021	0.0081	1	09/06/2017 23:45
Tetrachloroethene	ND	H	0.0037	0.0081	1	09/06/2017 23:45
Toluene	ND	H	0.0036	0.0081	1	09/06/2017 23:45
1,2,3-Trichlorobenzene	ND	H	0.0011	0.0081	1	09/06/2017 23:45
1,2,4-Trichlorobenzene	ND	H	0.0018	0.0081	1	09/06/2017 23:45
1,1,1-Trichloroethane	ND	H	0.0029	0.0081	1	09/06/2017 23:45
1,1,2-Trichloroethane	ND	H	0.0026	0.0081	1	09/06/2017 23:45
Trichloroethene	ND	H	0.0028	0.0081	1	09/06/2017 23:45
Trichlorofluoromethane	ND	H	0.0026	0.0081	1	09/06/2017 23:45
1,2,3-Trichloropropane	ND	H	0.0031	0.0081	1	09/06/2017 23:45
1,2,4-Trimethylbenzene	ND	H	0.0039	0.0081	1	09/06/2017 23:45
1,3,5-Trimethylbenzene	ND	H	0.0044	0.0081	1	09/06/2017 23:45
Vinyl Chloride	ND	H	0.0024	0.0081	1	09/06/2017 23:45
Xylenes, Total	ND	H	0.0041	0.0081	1	09/06/2017 23:45

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 4 feet	1709045-025A	Soil	08/30/2017 13:40	GC10 09061725.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/06/2017 23:45
Toluene-d8	118	H		70-130		09/06/2017 23:45
4-BFB	98	H		70-130		09/06/2017 23:45
Benzene-d6	100	H		60-140		09/06/2017 23:45
Ethylbenzene-d10	109	H		60-140		09/06/2017 23:45
1,2-DCB-d4	81	H		60-140		09/06/2017 23:45

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 8 feet	1709045-026A	Soil	08/30/2017 13:45	GC10 09061726.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.068	0.17	1	09/07/2017 00:25
tert-Amyl methyl ether (TAME)	ND	H	0.0017	0.0087	1	09/07/2017 00:25
Benzene	ND	H	0.0028	0.0087	1	09/07/2017 00:25
Bromobenzene	ND	H	0.0030	0.0087	1	09/07/2017 00:25
Bromochloromethane	ND	H	0.0026	0.0087	1	09/07/2017 00:25
Bromodichloromethane	ND	H	0.0021	0.0087	1	09/07/2017 00:25
Bromoform	ND	H	0.0014	0.0087	1	09/07/2017 00:25
Bromomethane	ND	H	0.0035	0.0087	1	09/07/2017 00:25
2-Butanone (MEK)	ND	H	0.0094	0.035	1	09/07/2017 00:25
t-Butyl alcohol (TBA)	ND	H	0.0092	0.087	1	09/07/2017 00:25
n-Butyl benzene	ND	H	0.0061	0.0087	1	09/07/2017 00:25
sec-Butyl benzene	ND	H	0.0059	0.0087	1	09/07/2017 00:25
tert-Butyl benzene	ND	H	0.0052	0.0087	1	09/07/2017 00:25
Carbon Disulfide	ND	H	0.0030	0.0087	1	09/07/2017 00:25
Carbon Tetrachloride	ND	H	0.0030	0.0087	1	09/07/2017 00:25
Chlorobenzene	ND	H	0.0031	0.0087	1	09/07/2017 00:25
Chloroethane	ND	H	0.0028	0.0087	1	09/07/2017 00:25
Chloroform	ND	H	0.0028	0.0087	1	09/07/2017 00:25
Chloromethane	ND	H	0.0030	0.0087	1	09/07/2017 00:25
2-Chlorotoluene	ND	H	0.0038	0.0087	1	09/07/2017 00:25
4-Chlorotoluene	ND	H	0.0036	0.0087	1	09/07/2017 00:25
Dibromochloromethane	ND	H	0.0019	0.0087	1	09/07/2017 00:25
1,2-Dibromo-3-chloropropane	ND	H	0.0021	0.0069	1	09/07/2017 00:25
1,2-Dibromoethane (EDB)	ND	H	0.0023	0.0069	1	09/07/2017 00:25
Dibromomethane	ND	H	0.0024	0.0087	1	09/07/2017 00:25
1,2-Dichlorobenzene	ND	H	0.0024	0.0087	1	09/07/2017 00:25
1,3-Dichlorobenzene	ND	H	0.0031	0.0087	1	09/07/2017 00:25
1,4-Dichlorobenzene	ND	H	0.0031	0.0087	1	09/07/2017 00:25
Dichlorodifluoromethane	ND	H	0.0019	0.0087	1	09/07/2017 00:25
1,1-Dichloroethane	ND	H	0.0030	0.0087	1	09/07/2017 00:25
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0024	0.0087	1	09/07/2017 00:25
1,1-Dichloroethene	ND	H	0.0030	0.0087	1	09/07/2017 00:25
cis-1,2-Dichloroethene	ND	H	0.0026	0.0087	1	09/07/2017 00:25
trans-1,2-Dichloroethene	ND	H	0.0028	0.0087	1	09/07/2017 00:25
1,2-Dichloropropane	ND	H	0.0024	0.0087	1	09/07/2017 00:25
1,3-Dichloropropane	ND	H	0.0028	0.0087	1	09/07/2017 00:25
2,2-Dichloropropane	ND	H	0.0023	0.0087	1	09/07/2017 00:25

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 8 feet	1709045-026A	Soil	08/30/2017 13:45	GC10 09061726.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0031	0.0087	1	09/07/2017 00:25
cis-1,3-Dichloropropene	ND	H	0.0026	0.0087	1	09/07/2017 00:25
trans-1,3-Dichloropropene	ND	H	0.0024	0.0087	1	09/07/2017 00:25
Diisopropyl ether (DIPE)	ND	H	0.0024	0.0087	1	09/07/2017 00:25
Ethylbenzene	ND	H	0.0035	0.0087	1	09/07/2017 00:25
Ethyl tert-butyl ether (ETBE)	ND	H	0.0023	0.0087	1	09/07/2017 00:25
Freon 113	ND	H	0.0028	0.0087	1	09/07/2017 00:25
Hexachlorobutadiene	ND	H	0.0087	0.0087	1	09/07/2017 00:25
Hexachloroethane	ND	H	0.0043	0.0087	1	09/07/2017 00:25
2-Hexanone	ND	H	0.0043	0.0087	1	09/07/2017 00:25
Isopropylbenzene	ND	H	0.0038	0.0087	1	09/07/2017 00:25
4-Isopropyl toluene	ND	H	0.0054	0.0087	1	09/07/2017 00:25
Methyl-t-butyl ether (MTBE)	ND	H	0.0023	0.0087	1	09/07/2017 00:25
Methylene chloride	ND	H	0.0062	0.0087	1	09/07/2017 00:25
4-Methyl-2-pentanone (MIBK)	ND	H	0.0014	0.0087	1	09/07/2017 00:25
Naphthalene	ND	H	0.0010	0.0087	1	09/07/2017 00:25
n-Propyl benzene	ND	H	0.0050	0.0087	1	09/07/2017 00:25
Styrene	ND	H	0.0024	0.0087	1	09/07/2017 00:25
1,1,1,2-Tetrachloroethane	ND	H	0.0028	0.0087	1	09/07/2017 00:25
1,1,2,2-Tetrachloroethane	ND	H	0.0023	0.0087	1	09/07/2017 00:25
Tetrachloroethene	ND	H	0.0040	0.0087	1	09/07/2017 00:25
Toluene	ND	H	0.0038	0.0087	1	09/07/2017 00:25
1,2,3-Trichlorobenzene	ND	H	0.0012	0.0087	1	09/07/2017 00:25
1,2,4-Trichlorobenzene	ND	H	0.0019	0.0087	1	09/07/2017 00:25
1,1,1-Trichloroethane	ND	H	0.0031	0.0087	1	09/07/2017 00:25
1,1,2-Trichloroethane	ND	H	0.0028	0.0087	1	09/07/2017 00:25
Trichloroethene	ND	H	0.0030	0.0087	1	09/07/2017 00:25
Trichlorofluoromethane	ND	H	0.0028	0.0087	1	09/07/2017 00:25
1,2,3-Trichloropropane	ND	H	0.0033	0.0087	1	09/07/2017 00:25
1,2,4-Trimethylbenzene	ND	H	0.0042	0.0087	1	09/07/2017 00:25
1,3,5-Trimethylbenzene	ND	H	0.0047	0.0087	1	09/07/2017 00:25
Vinyl Chloride	ND	H	0.0026	0.0087	1	09/07/2017 00:25
Xylenes, Total	ND	H	0.0043	0.0087	1	09/07/2017 00:25

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 8 feet	1709045-026A	Soil	08/30/2017 13:45	GC10 09061726.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/07/2017 00:25
Toluene-d8	120	H		70-130		09/07/2017 00:25
4-BFB	102	H		70-130		09/07/2017 00:25
Benzene-d6	104	H		60-140		09/07/2017 00:25
Ethylbenzene-d10	113	H		60-140		09/07/2017 00:25
1,2-DCB-d4	85	H		60-140		09/07/2017 00:25

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 4 feet	1709045-029A	Soil	08/30/2017 13:27	GC10 09061717.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.071	0.18	1	09/06/2017 18:08
tert-Amyl methyl ether (TAME)	ND	H	0.0018	0.0091	1	09/06/2017 18:08
Benzene	ND	H	0.0029	0.0091	1	09/06/2017 18:08
Bromobenzene	ND	H	0.0031	0.0091	1	09/06/2017 18:08
Bromochloromethane	ND	H	0.0027	0.0091	1	09/06/2017 18:08
Bromodichloromethane	ND	H	0.0022	0.0091	1	09/06/2017 18:08
Bromoform	ND	H	0.0015	0.0091	1	09/06/2017 18:08
Bromomethane	ND	H	0.0036	0.0091	1	09/06/2017 18:08
2-Butanone (MEK)	ND	H	0.0098	0.036	1	09/06/2017 18:08
t-Butyl alcohol (TBA)	ND	H	0.0096	0.091	1	09/06/2017 18:08
n-Butyl benzene	ND	H	0.0064	0.0091	1	09/06/2017 18:08
sec-Butyl benzene	ND	H	0.0062	0.0091	1	09/06/2017 18:08
tert-Butyl benzene	ND	H	0.0054	0.0091	1	09/06/2017 18:08
Carbon Disulfide	ND	H	0.0031	0.0091	1	09/06/2017 18:08
Carbon Tetrachloride	ND	H	0.0031	0.0091	1	09/06/2017 18:08
Chlorobenzene	ND	H	0.0033	0.0091	1	09/06/2017 18:08
Chloroethane	ND	H	0.0029	0.0091	1	09/06/2017 18:08
Chloroform	ND	H	0.0029	0.0091	1	09/06/2017 18:08
Chloromethane	ND	H	0.0031	0.0091	1	09/06/2017 18:08
2-Chlorotoluene	ND	H	0.0040	0.0091	1	09/06/2017 18:08
4-Chlorotoluene	ND	H	0.0038	0.0091	1	09/06/2017 18:08
Dibromochloromethane	ND	H	0.0020	0.0091	1	09/06/2017 18:08
1,2-Dibromo-3-chloropropane	ND	H	0.0022	0.0073	1	09/06/2017 18:08
1,2-Dibromoethane (EDB)	ND	H	0.0024	0.0073	1	09/06/2017 18:08
Dibromomethane	ND	H	0.0025	0.0091	1	09/06/2017 18:08
1,2-Dichlorobenzene	ND	H	0.0025	0.0091	1	09/06/2017 18:08
1,3-Dichlorobenzene	ND	H	0.0033	0.0091	1	09/06/2017 18:08
1,4-Dichlorobenzene	ND	H	0.0033	0.0091	1	09/06/2017 18:08
Dichlorodifluoromethane	ND	H	0.0020	0.0091	1	09/06/2017 18:08
1,1-Dichloroethane	ND	H	0.0031	0.0091	1	09/06/2017 18:08
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0025	0.0091	1	09/06/2017 18:08
1,1-Dichloroethene	ND	H	0.0031	0.0091	1	09/06/2017 18:08
cis-1,2-Dichloroethene	ND	H	0.0027	0.0091	1	09/06/2017 18:08
trans-1,2-Dichloroethene	ND	H	0.0029	0.0091	1	09/06/2017 18:08
1,2-Dichloropropane	ND	H	0.0025	0.0091	1	09/06/2017 18:08
1,3-Dichloropropane	ND	H	0.0029	0.0091	1	09/06/2017 18:08
2,2-Dichloropropane	ND	H	0.0024	0.0091	1	09/06/2017 18:08

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 4 feet	1709045-029A	Soil	08/30/2017 13:27	GC10 09061717.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0033	0.0091	1	09/06/2017 18:08
cis-1,3-Dichloropropene	ND	H	0.0027	0.0091	1	09/06/2017 18:08
trans-1,3-Dichloropropene	ND	H	0.0025	0.0091	1	09/06/2017 18:08
Diisopropyl ether (DIPE)	ND	H	0.0025	0.0091	1	09/06/2017 18:08
Ethylbenzene	ND	H	0.0036	0.0091	1	09/06/2017 18:08
Ethyl tert-butyl ether (ETBE)	ND	H	0.0024	0.0091	1	09/06/2017 18:08
Freon 113	ND	H	0.0029	0.0091	1	09/06/2017 18:08
Hexachlorobutadiene	ND	H	0.0091	0.0091	1	09/06/2017 18:08
Hexachloroethane	ND	H	0.0045	0.0091	1	09/06/2017 18:08
2-Hexanone	ND	H	0.0045	0.0091	1	09/06/2017 18:08
Isopropylbenzene	ND	H	0.0040	0.0091	1	09/06/2017 18:08
4-Isopropyl toluene	ND	H	0.0056	0.0091	1	09/06/2017 18:08
Methyl-t-butyl ether (MTBE)	ND	H	0.0024	0.0091	1	09/06/2017 18:08
Methylene chloride	ND	H	0.0065	0.0091	1	09/06/2017 18:08
4-Methyl-2-pentanone (MIBK)	ND	H	0.0015	0.0091	1	09/06/2017 18:08
Naphthalene	ND	H	0.0011	0.0091	1	09/06/2017 18:08
n-Propyl benzene	ND	H	0.0053	0.0091	1	09/06/2017 18:08
Styrene	ND	H	0.0025	0.0091	1	09/06/2017 18:08
1,1,1,2-Tetrachloroethane	ND	H	0.0029	0.0091	1	09/06/2017 18:08
1,1,2,2-Tetrachloroethane	ND	H	0.0024	0.0091	1	09/06/2017 18:08
Tetrachloroethene	ND	H	0.0042	0.0091	1	09/06/2017 18:08
Toluene	ND	H	0.0040	0.0091	1	09/06/2017 18:08
1,2,3-Trichlorobenzene	ND	H	0.0013	0.0091	1	09/06/2017 18:08
1,2,4-Trichlorobenzene	ND	H	0.0020	0.0091	1	09/06/2017 18:08
1,1,1-Trichloroethane	ND	H	0.0033	0.0091	1	09/06/2017 18:08
1,1,2-Trichloroethane	ND	H	0.0029	0.0091	1	09/06/2017 18:08
Trichloroethene	ND	H	0.0031	0.0091	1	09/06/2017 18:08
Trichlorofluoromethane	ND	H	0.0029	0.0091	1	09/06/2017 18:08
1,2,3-Trichloropropane	ND	H	0.0034	0.0091	1	09/06/2017 18:08
1,2,4-Trimethylbenzene	ND	H	0.0044	0.0091	1	09/06/2017 18:08
1,3,5-Trimethylbenzene	ND	H	0.0049	0.0091	1	09/06/2017 18:08
Vinyl Chloride	ND	H	0.0027	0.0091	1	09/06/2017 18:08
Xylenes, Total	ND	H	0.0045	0.0091	1	09/06/2017 18:08

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 4 feet	1709045-029A	Soil	08/30/2017 13:27	GC10 09061717.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	112	H		70-130		09/06/2017 18:08
Toluene-d8	119	H		70-130		09/06/2017 18:08
4-BFB	97	H		70-130		09/06/2017 18:08
Benzene-d6	119	H		60-140		09/06/2017 18:08
Ethylbenzene-d10	128	H		60-140		09/06/2017 18:08
1,2-DCB-d4	99	H		60-140		09/06/2017 18:08

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 8 feet	1709045-030A	Soil	08/30/2017 13:32	GC10 09061727.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.081	0.21	1	09/07/2017 01:05
tert-Amyl methyl ether (TAME)	ND	H	0.0021	0.010	1	09/07/2017 01:05
Benzene	ND	H	0.0033	0.010	1	09/07/2017 01:05
Bromobenzene	ND	H	0.0035	0.010	1	09/07/2017 01:05
Bromochloromethane	ND	H	0.0031	0.010	1	09/07/2017 01:05
Bromodichloromethane	ND	H	0.0025	0.010	1	09/07/2017 01:05
Bromoform	ND	H	0.0017	0.010	1	09/07/2017 01:05
Bromomethane	ND	H	0.0041	0.010	1	09/07/2017 01:05
2-Butanone (MEK)	ND	H	0.011	0.041	1	09/07/2017 01:05
t-Butyl alcohol (TBA)	ND	H	0.011	0.10	1	09/07/2017 01:05
n-Butyl benzene	ND	H	0.0072	0.010	1	09/07/2017 01:05
sec-Butyl benzene	ND	H	0.0070	0.010	1	09/07/2017 01:05
tert-Butyl benzene	ND	H	0.0062	0.010	1	09/07/2017 01:05
Carbon Disulfide	ND	H	0.0035	0.010	1	09/07/2017 01:05
Carbon Tetrachloride	ND	H	0.0035	0.010	1	09/07/2017 01:05
Chlorobenzene	ND	H	0.0037	0.010	1	09/07/2017 01:05
Chloroethane	ND	H	0.0033	0.010	1	09/07/2017 01:05
Chloroform	ND	H	0.0033	0.010	1	09/07/2017 01:05
Chloromethane	ND	H	0.0035	0.010	1	09/07/2017 01:05
2-Chlorotoluene	ND	H	0.0045	0.010	1	09/07/2017 01:05
4-Chlorotoluene	ND	H	0.0043	0.010	1	09/07/2017 01:05
Dibromochloromethane	ND	H	0.0023	0.010	1	09/07/2017 01:05
1,2-Dibromo-3-chloropropane	ND	H	0.0025	0.0083	1	09/07/2017 01:05
1,2-Dibromoethane (EDB)	ND	H	0.0027	0.0083	1	09/07/2017 01:05
Dibromomethane	ND	H	0.0029	0.010	1	09/07/2017 01:05
1,2-Dichlorobenzene	ND	H	0.0029	0.010	1	09/07/2017 01:05
1,3-Dichlorobenzene	ND	H	0.0037	0.010	1	09/07/2017 01:05
1,4-Dichlorobenzene	ND	H	0.0037	0.010	1	09/07/2017 01:05
Dichlorodifluoromethane	ND	H	0.0023	0.010	1	09/07/2017 01:05
1,1-Dichloroethane	ND	H	0.0035	0.010	1	09/07/2017 01:05
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0029	0.010	1	09/07/2017 01:05
1,1-Dichloroethene	ND	H	0.0035	0.010	1	09/07/2017 01:05
cis-1,2-Dichloroethene	ND	H	0.0031	0.010	1	09/07/2017 01:05
trans-1,2-Dichloroethene	ND	H	0.0033	0.010	1	09/07/2017 01:05
1,2-Dichloropropane	ND	H	0.0029	0.010	1	09/07/2017 01:05
1,3-Dichloropropane	ND	H	0.0033	0.010	1	09/07/2017 01:05
2,2-Dichloropropane	ND	H	0.0027	0.010	1	09/07/2017 01:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 8 feet	1709045-030A	Soil	08/30/2017 13:32	GC10 09061727.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0037	0.010	1	09/07/2017 01:05
cis-1,3-Dichloropropene	ND	H	0.0031	0.010	1	09/07/2017 01:05
trans-1,3-Dichloropropene	ND	H	0.0029	0.010	1	09/07/2017 01:05
Diisopropyl ether (DIPE)	ND	H	0.0029	0.010	1	09/07/2017 01:05
Ethylbenzene	ND	H	0.0041	0.010	1	09/07/2017 01:05
Ethyl tert-butyl ether (ETBE)	ND	H	0.0027	0.010	1	09/07/2017 01:05
Freon 113	ND	H	0.0033	0.010	1	09/07/2017 01:05
Hexachlorobutadiene	ND	H	0.010	0.010	1	09/07/2017 01:05
Hexachloroethane	ND	H	0.0052	0.010	1	09/07/2017 01:05
2-Hexanone	ND	H	0.0052	0.010	1	09/07/2017 01:05
Isopropylbenzene	ND	H	0.0045	0.010	1	09/07/2017 01:05
4-Isopropyl toluene	ND	H	0.0064	0.010	1	09/07/2017 01:05
Methyl-t-butyl ether (MTBE)	ND	H	0.0027	0.010	1	09/07/2017 01:05
Methylene chloride	ND	H	0.0074	0.010	1	09/07/2017 01:05
4-Methyl-2-pentanone (MIBK)	ND	H	0.0017	0.010	1	09/07/2017 01:05
Naphthalene	ND	H	0.0012	0.010	1	09/07/2017 01:05
n-Propyl benzene	ND	H	0.0060	0.010	1	09/07/2017 01:05
Styrene	ND	H	0.0029	0.010	1	09/07/2017 01:05
1,1,1,2-Tetrachloroethane	ND	H	0.0033	0.010	1	09/07/2017 01:05
1,1,2,2-Tetrachloroethane	ND	H	0.0027	0.010	1	09/07/2017 01:05
Tetrachloroethene	ND	H	0.0048	0.010	1	09/07/2017 01:05
Toluene	ND	H	0.0045	0.010	1	09/07/2017 01:05
1,2,3-Trichlorobenzene	ND	H	0.0014	0.010	1	09/07/2017 01:05
1,2,4-Trichlorobenzene	ND	H	0.0023	0.010	1	09/07/2017 01:05
1,1,1-Trichloroethane	ND	H	0.0037	0.010	1	09/07/2017 01:05
1,1,2-Trichloroethane	ND	H	0.0033	0.010	1	09/07/2017 01:05
Trichloroethene	ND	H	0.0035	0.010	1	09/07/2017 01:05
Trichlorofluoromethane	ND	H	0.0033	0.010	1	09/07/2017 01:05
1,2,3-Trichloropropane	ND	H	0.0039	0.010	1	09/07/2017 01:05
1,2,4-Trimethylbenzene	ND	H	0.0050	0.010	1	09/07/2017 01:05
1,3,5-Trimethylbenzene	ND	H	0.0056	0.010	1	09/07/2017 01:05
Vinyl Chloride	ND	H	0.0031	0.010	1	09/07/2017 01:05
Xylenes, Total	ND	H	0.0052	0.010	1	09/07/2017 01:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 8 feet	1709045-030A	Soil	08/30/2017 13:32	GC10 09061727.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/07/2017 01:05
Toluene-d8	122	H		70-130		09/07/2017 01:05
4-BFB	98	H		70-130		09/07/2017 01:05
Benzene-d6	108	H		60-140		09/07/2017 01:05
Ethylbenzene-d10	115	H		60-140		09/07/2017 01:05
1,2-DCB-d4	85	H		60-140		09/07/2017 01:05

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 4 feet	1709045-033A	Soil	08/30/2017 13:05	GC10 09061728.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.085	0.22	1	09/07/2017 01:46
tert-Amyl methyl ether (TAME)	ND	H	0.0022	0.011	1	09/07/2017 01:46
Benzene	ND	H	0.0035	0.011	1	09/07/2017 01:46
Bromobenzene	ND	H	0.0037	0.011	1	09/07/2017 01:46
Bromochloromethane	ND	H	0.0033	0.011	1	09/07/2017 01:46
Bromodichloromethane	ND	H	0.0026	0.011	1	09/07/2017 01:46
Bromoform	ND	H	0.0017	0.011	1	09/07/2017 01:46
Bromomethane	ND	H	0.0044	0.011	1	09/07/2017 01:46
2-Butanone (MEK)	ND	H	0.012	0.044	1	09/07/2017 01:46
t-Butyl alcohol (TBA)	ND	H	0.012	0.11	1	09/07/2017 01:46
n-Butyl benzene	ND	H	0.0076	0.011	1	09/07/2017 01:46
sec-Butyl benzene	ND	H	0.0074	0.011	1	09/07/2017 01:46
tert-Butyl benzene	ND	H	0.0065	0.011	1	09/07/2017 01:46
Carbon Disulfide	ND	H	0.0037	0.011	1	09/07/2017 01:46
Carbon Tetrachloride	ND	H	0.0037	0.011	1	09/07/2017 01:46
Chlorobenzene	ND	H	0.0039	0.011	1	09/07/2017 01:46
Chloroethane	ND	H	0.0035	0.011	1	09/07/2017 01:46
Chloroform	ND	H	0.0035	0.011	1	09/07/2017 01:46
Chloromethane	ND	H	0.0037	0.011	1	09/07/2017 01:46
2-Chlorotoluene	ND	H	0.0048	0.011	1	09/07/2017 01:46
4-Chlorotoluene	ND	H	0.0046	0.011	1	09/07/2017 01:46
Dibromochloromethane	ND	H	0.0024	0.011	1	09/07/2017 01:46
1,2-Dibromo-3-chloropropane	ND	H	0.0026	0.0087	1	09/07/2017 01:46
1,2-Dibromoethane (EDB)	ND	H	0.0028	0.0087	1	09/07/2017 01:46
Dibromomethane	ND	H	0.0031	0.011	1	09/07/2017 01:46
1,2-Dichlorobenzene	ND	H	0.0031	0.011	1	09/07/2017 01:46
1,3-Dichlorobenzene	ND	H	0.0039	0.011	1	09/07/2017 01:46
1,4-Dichlorobenzene	ND	H	0.0039	0.011	1	09/07/2017 01:46
Dichlorodifluoromethane	ND	H	0.0024	0.011	1	09/07/2017 01:46
1,1-Dichloroethane	ND	H	0.0037	0.011	1	09/07/2017 01:46
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0031	0.011	1	09/07/2017 01:46
1,1-Dichloroethene	ND	H	0.0037	0.011	1	09/07/2017 01:46
cis-1,2-Dichloroethene	ND	H	0.0033	0.011	1	09/07/2017 01:46
trans-1,2-Dichloroethene	ND	H	0.0035	0.011	1	09/07/2017 01:46
1,2-Dichloropropane	ND	H	0.0031	0.011	1	09/07/2017 01:46
1,3-Dichloropropane	ND	H	0.0035	0.011	1	09/07/2017 01:46
2,2-Dichloropropane	ND	H	0.0028	0.011	1	09/07/2017 01:46

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 4 feet	1709045-033A	Soil	08/30/2017 13:05	GC10 09061728.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0039	0.011	1	09/07/2017 01:46
cis-1,3-Dichloropropene	ND	H	0.0033	0.011	1	09/07/2017 01:46
trans-1,3-Dichloropropene	ND	H	0.0031	0.011	1	09/07/2017 01:46
Diisopropyl ether (DIPE)	ND	H	0.0031	0.011	1	09/07/2017 01:46
Ethylbenzene	ND	H	0.0044	0.011	1	09/07/2017 01:46
Ethyl tert-butyl ether (ETBE)	ND	H	0.0028	0.011	1	09/07/2017 01:46
Freon 113	ND	H	0.0035	0.011	1	09/07/2017 01:46
Hexachlorobutadiene	ND	H	0.011	0.011	1	09/07/2017 01:46
Hexachloroethane	ND	H	0.0054	0.011	1	09/07/2017 01:46
2-Hexanone	ND	H	0.0054	0.011	1	09/07/2017 01:46
Isopropylbenzene	ND	H	0.0048	0.011	1	09/07/2017 01:46
4-Isopropyl toluene	ND	H	0.0068	0.011	1	09/07/2017 01:46
Methyl-t-butyl ether (MTBE)	ND	H	0.0028	0.011	1	09/07/2017 01:46
Methylene chloride	ND	H	0.0078	0.011	1	09/07/2017 01:46
4-Methyl-2-pentanone (MIBK)	ND	H	0.0017	0.011	1	09/07/2017 01:46
Naphthalene	ND	H	0.0013	0.011	1	09/07/2017 01:46
n-Propyl benzene	ND	H	0.0063	0.011	1	09/07/2017 01:46
Styrene	ND	H	0.0031	0.011	1	09/07/2017 01:46
1,1,1,2-Tetrachloroethane	ND	H	0.0035	0.011	1	09/07/2017 01:46
1,1,2,2-Tetrachloroethane	ND	H	0.0028	0.011	1	09/07/2017 01:46
Tetrachloroethene	ND	H	0.0050	0.011	1	09/07/2017 01:46
Toluene	ND	H	0.0048	0.011	1	09/07/2017 01:46
1,2,3-Trichlorobenzene	ND	H	0.0015	0.011	1	09/07/2017 01:46
1,2,4-Trichlorobenzene	ND	H	0.0024	0.011	1	09/07/2017 01:46
1,1,1-Trichloroethane	ND	H	0.0039	0.011	1	09/07/2017 01:46
1,1,2-Trichloroethane	ND	H	0.0035	0.011	1	09/07/2017 01:46
Trichloroethene	ND	H	0.0037	0.011	1	09/07/2017 01:46
Trichlorofluoromethane	ND	H	0.0035	0.011	1	09/07/2017 01:46
1,2,3-Trichloropropane	ND	H	0.0041	0.011	1	09/07/2017 01:46
1,2,4-Trimethylbenzene	ND	H	0.0052	0.011	1	09/07/2017 01:46
1,3,5-Trimethylbenzene	ND	H	0.0059	0.011	1	09/07/2017 01:46
Vinyl Chloride	ND	H	0.0033	0.011	1	09/07/2017 01:46
Xylenes, Total	ND	H	0.0054	0.011	1	09/07/2017 01:46

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 4 feet	1709045-033A	Soil	08/30/2017 13:05	GC10 09061728.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	109	H		70-130		09/07/2017 01:46
Toluene-d8	120	H		70-130		09/07/2017 01:46
4-BFB	99	H		70-130		09/07/2017 01:46
Benzene-d6	106	H		60-140		09/07/2017 01:46
Ethylbenzene-d10	114	H		60-140		09/07/2017 01:46
1,2-DCB-d4	85	H		60-140		09/07/2017 01:46

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 8 feet	1709045-034A	Soil	08/30/2017 13:11	GC10 09061729.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND	H	0.076	0.19	1	09/07/2017 02:25
tert-Amyl methyl ether (TAME)	ND	H	0.0019	0.0097	1	09/07/2017 02:25
Benzene	ND	H	0.0031	0.0097	1	09/07/2017 02:25
Bromobenzene	ND	H	0.0033	0.0097	1	09/07/2017 02:25
Bromochloromethane	ND	H	0.0029	0.0097	1	09/07/2017 02:25
Bromodichloromethane	ND	H	0.0023	0.0097	1	09/07/2017 02:25
Bromoform	ND	H	0.0016	0.0097	1	09/07/2017 02:25
Bromomethane	ND	H	0.0039	0.0097	1	09/07/2017 02:25
2-Butanone (MEK)	ND	H	0.011	0.039	1	09/07/2017 02:25
t-Butyl alcohol (TBA)	ND	H	0.010	0.097	1	09/07/2017 02:25
n-Butyl benzene	ND	H	0.0068	0.0097	1	09/07/2017 02:25
sec-Butyl benzene	ND	H	0.0066	0.0097	1	09/07/2017 02:25
tert-Butyl benzene	ND	H	0.0058	0.0097	1	09/07/2017 02:25
Carbon Disulfide	ND	H	0.0033	0.0097	1	09/07/2017 02:25
Carbon Tetrachloride	ND	H	0.0033	0.0097	1	09/07/2017 02:25
Chlorobenzene	ND	H	0.0035	0.0097	1	09/07/2017 02:25
Chloroethane	ND	H	0.0031	0.0097	1	09/07/2017 02:25
Chloroform	ND	H	0.0031	0.0097	1	09/07/2017 02:25
Chloromethane	ND	H	0.0033	0.0097	1	09/07/2017 02:25
2-Chlorotoluene	ND	H	0.0043	0.0097	1	09/07/2017 02:25
4-Chlorotoluene	ND	H	0.0041	0.0097	1	09/07/2017 02:25
Dibromochloromethane	ND	H	0.0021	0.0097	1	09/07/2017 02:25
1,2-Dibromo-3-chloropropane	ND	H	0.0023	0.0078	1	09/07/2017 02:25
1,2-Dibromoethane (EDB)	ND	H	0.0025	0.0078	1	09/07/2017 02:25
Dibromomethane	ND	H	0.0027	0.0097	1	09/07/2017 02:25
1,2-Dichlorobenzene	ND	H	0.0027	0.0097	1	09/07/2017 02:25
1,3-Dichlorobenzene	ND	H	0.0035	0.0097	1	09/07/2017 02:25
1,4-Dichlorobenzene	ND	H	0.0035	0.0097	1	09/07/2017 02:25
Dichlorodifluoromethane	ND	H	0.0021	0.0097	1	09/07/2017 02:25
1,1-Dichloroethane	ND	H	0.0033	0.0097	1	09/07/2017 02:25
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0027	0.0097	1	09/07/2017 02:25
1,1-Dichloroethene	ND	H	0.0033	0.0097	1	09/07/2017 02:25
cis-1,2-Dichloroethene	ND	H	0.0029	0.0097	1	09/07/2017 02:25
trans-1,2-Dichloroethene	ND	H	0.0031	0.0097	1	09/07/2017 02:25
1,2-Dichloropropane	ND	H	0.0027	0.0097	1	09/07/2017 02:25
1,3-Dichloropropane	ND	H	0.0031	0.0097	1	09/07/2017 02:25
2,2-Dichloropropane	ND	H	0.0025	0.0097	1	09/07/2017 02:25

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 8 feet	1709045-034A	Soil	08/30/2017 13:11	GC10 09061729.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0035	0.0097	1	09/07/2017 02:25
cis-1,3-Dichloropropene	ND	H	0.0029	0.0097	1	09/07/2017 02:25
trans-1,3-Dichloropropene	ND	H	0.0027	0.0097	1	09/07/2017 02:25
Diisopropyl ether (DIPE)	ND	H	0.0027	0.0097	1	09/07/2017 02:25
Ethylbenzene	ND	H	0.0039	0.0097	1	09/07/2017 02:25
Ethyl tert-butyl ether (ETBE)	ND	H	0.0025	0.0097	1	09/07/2017 02:25
Freon 113	ND	H	0.0031	0.0097	1	09/07/2017 02:25
Hexachlorobutadiene	ND	H	0.0097	0.0097	1	09/07/2017 02:25
Hexachloroethane	ND	H	0.0049	0.0097	1	09/07/2017 02:25
2-Hexanone	ND	H	0.0049	0.0097	1	09/07/2017 02:25
Isopropylbenzene	ND	H	0.0043	0.0097	1	09/07/2017 02:25
4-Isopropyl toluene	ND	H	0.0060	0.0097	1	09/07/2017 02:25
Methyl-t-butyl ether (MTBE)	ND	H	0.0025	0.0097	1	09/07/2017 02:25
Methylene chloride	ND	H	0.0070	0.0097	1	09/07/2017 02:25
4-Methyl-2-pentanone (MIBK)	ND	H	0.0016	0.0097	1	09/07/2017 02:25
Naphthalene	ND	H	0.0012	0.0097	1	09/07/2017 02:25
n-Propyl benzene	ND	H	0.0056	0.0097	1	09/07/2017 02:25
Styrene	ND	H	0.0027	0.0097	1	09/07/2017 02:25
1,1,1,2-Tetrachloroethane	ND	H	0.0031	0.0097	1	09/07/2017 02:25
1,1,2,2-Tetrachloroethane	ND	H	0.0025	0.0097	1	09/07/2017 02:25
Tetrachloroethene	ND	H	0.0045	0.0097	1	09/07/2017 02:25
Toluene	ND	H	0.0043	0.0097	1	09/07/2017 02:25
1,2,3-Trichlorobenzene	ND	H	0.0014	0.0097	1	09/07/2017 02:25
1,2,4-Trichlorobenzene	ND	H	0.0021	0.0097	1	09/07/2017 02:25
1,1,1-Trichloroethane	ND	H	0.0035	0.0097	1	09/07/2017 02:25
1,1,2-Trichloroethane	ND	H	0.0031	0.0097	1	09/07/2017 02:25
Trichloroethene	ND	H	0.0033	0.0097	1	09/07/2017 02:25
Trichlorofluoromethane	ND	H	0.0031	0.0097	1	09/07/2017 02:25
1,2,3-Trichloropropane	ND	H	0.0037	0.0097	1	09/07/2017 02:25
1,2,4-Trimethylbenzene	ND	H	0.0047	0.0097	1	09/07/2017 02:25
1,3,5-Trimethylbenzene	ND	H	0.0053	0.0097	1	09/07/2017 02:25
Vinyl Chloride	ND	H	0.0029	0.0097	1	09/07/2017 02:25
Xylenes, Total	ND	H	0.0049	0.0097	1	09/07/2017 02:25

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 8 feet	1709045-034A	Soil	08/30/2017 13:11	GC10 09061729.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
Dibromofluoromethane	107	H		70-130		09/07/2017 02:25
Toluene-d8	119	H		70-130		09/07/2017 02:25
4-BFB	96	H		70-130		09/07/2017 02:25
Benzene-d6	100	H		60-140		09/07/2017 02:25
Ethylbenzene-d10	109	H		60-140		09/07/2017 02:25
1,2-DCB-d4	83	H		60-140		09/07/2017 02:25

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 4 feet	1709045-037A	Soil	08/31/2017 11:04	GC10 09061730.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
Acetone	ND	0.066	0.17	1	09/07/2017 03:05
tert-Amyl methyl ether (TAME)	ND	0.0017	0.0084	1	09/07/2017 03:05
Benzene	ND	0.0027	0.0084	1	09/07/2017 03:05
Bromobenzene	ND	0.0029	0.0084	1	09/07/2017 03:05
Bromochloromethane	ND	0.0025	0.0084	1	09/07/2017 03:05
Bromodichloromethane	ND	0.0020	0.0084	1	09/07/2017 03:05
Bromoform	ND	0.0013	0.0084	1	09/07/2017 03:05
Bromomethane	ND	0.0034	0.0084	1	09/07/2017 03:05
2-Butanone (MEK)	ND	0.0091	0.034	1	09/07/2017 03:05
t-Butyl alcohol (TBA)	ND	0.0089	0.084	1	09/07/2017 03:05
n-Butyl benzene	ND	0.0059	0.0084	1	09/07/2017 03:05
sec-Butyl benzene	ND	0.0057	0.0084	1	09/07/2017 03:05
tert-Butyl benzene	ND	0.0051	0.0084	1	09/07/2017 03:05
Carbon Disulfide	ND	0.0029	0.0084	1	09/07/2017 03:05
Carbon Tetrachloride	ND	0.0029	0.0084	1	09/07/2017 03:05
Chlorobenzene	ND	0.0030	0.0084	1	09/07/2017 03:05
Chloroethane	ND	0.0027	0.0084	1	09/07/2017 03:05
Chloroform	ND	0.0027	0.0084	1	09/07/2017 03:05
Chloromethane	ND	0.0029	0.0084	1	09/07/2017 03:05
2-Chlorotoluene	ND	0.0037	0.0084	1	09/07/2017 03:05
4-Chlorotoluene	ND	0.0035	0.0084	1	09/07/2017 03:05
Dibromochloromethane	ND	0.0019	0.0084	1	09/07/2017 03:05
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0067	1	09/07/2017 03:05
1,2-Dibromoethane (EDB)	ND	0.0022	0.0067	1	09/07/2017 03:05
Dibromomethane	ND	0.0024	0.0084	1	09/07/2017 03:05
1,2-Dichlorobenzene	ND	0.0024	0.0084	1	09/07/2017 03:05
1,3-Dichlorobenzene	ND	0.0030	0.0084	1	09/07/2017 03:05
1,4-Dichlorobenzene	ND	0.0030	0.0084	1	09/07/2017 03:05
Dichlorodifluoromethane	ND	0.0019	0.0084	1	09/07/2017 03:05
1,1-Dichloroethane	ND	0.0029	0.0084	1	09/07/2017 03:05
1,2-Dichloroethane (1,2-DCA)	ND	0.0024	0.0084	1	09/07/2017 03:05
1,1-Dichloroethene	ND	0.0029	0.0084	1	09/07/2017 03:05
cis-1,2-Dichloroethene	ND	0.0025	0.0084	1	09/07/2017 03:05
trans-1,2-Dichloroethene	ND	0.0027	0.0084	1	09/07/2017 03:05
1,2-Dichloropropane	ND	0.0024	0.0084	1	09/07/2017 03:05
1,3-Dichloropropane	ND	0.0027	0.0084	1	09/07/2017 03:05
2,2-Dichloropropane	ND	0.0022	0.0084	1	09/07/2017 03:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 4 feet	1709045-037A	Soil	08/31/2017 11:04	GC10 09061730.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0030	0.0084	1	09/07/2017 03:05
cis-1,3-Dichloropropene	ND	0.0025	0.0084	1	09/07/2017 03:05
trans-1,3-Dichloropropene	ND	0.0024	0.0084	1	09/07/2017 03:05
Diisopropyl ether (DIPE)	ND	0.0024	0.0084	1	09/07/2017 03:05
Ethylbenzene	ND	0.0034	0.0084	1	09/07/2017 03:05
Ethyl tert-butyl ether (ETBE)	ND	0.0022	0.0084	1	09/07/2017 03:05
Freon 113	ND	0.0027	0.0084	1	09/07/2017 03:05
Hexachlorobutadiene	ND	0.0084	0.0084	1	09/07/2017 03:05
Hexachloroethane	ND	0.0042	0.0084	1	09/07/2017 03:05
2-Hexanone	ND	0.0042	0.0084	1	09/07/2017 03:05
Isopropylbenzene	ND	0.0037	0.0084	1	09/07/2017 03:05
4-Isopropyl toluene	ND	0.0052	0.0084	1	09/07/2017 03:05
Methyl-t-butyl ether (MTBE)	ND	0.0022	0.0084	1	09/07/2017 03:05
Methylene chloride	ND	0.0061	0.0084	1	09/07/2017 03:05
4-Methyl-2-pentanone (MIBK)	ND	0.0013	0.0084	1	09/07/2017 03:05
Naphthalene	ND	0.0010	0.0084	1	09/07/2017 03:05
n-Propyl benzene	ND	0.0049	0.0084	1	09/07/2017 03:05
Styrene	ND	0.0024	0.0084	1	09/07/2017 03:05
1,1,1,2-Tetrachloroethane	ND	0.0027	0.0084	1	09/07/2017 03:05
1,1,2,2-Tetrachloroethane	ND	0.0022	0.0084	1	09/07/2017 03:05
Tetrachloroethene	ND	0.0039	0.0084	1	09/07/2017 03:05
Toluene	ND	0.0037	0.0084	1	09/07/2017 03:05
1,2,3-Trichlorobenzene	ND	0.0012	0.0084	1	09/07/2017 03:05
1,2,4-Trichlorobenzene	ND	0.0019	0.0084	1	09/07/2017 03:05
1,1,1-Trichloroethane	ND	0.0030	0.0084	1	09/07/2017 03:05
1,1,2-Trichloroethane	ND	0.0027	0.0084	1	09/07/2017 03:05
Trichloroethene	ND	0.0029	0.0084	1	09/07/2017 03:05
Trichlorofluoromethane	ND	0.0027	0.0084	1	09/07/2017 03:05
1,2,3-Trichloropropane	ND	0.0032	0.0084	1	09/07/2017 03:05
1,2,4-Trimethylbenzene	ND	0.0040	0.0084	1	09/07/2017 03:05
1,3,5-Trimethylbenzene	ND	0.0045	0.0084	1	09/07/2017 03:05
Vinyl Chloride	ND	0.0025	0.0084	1	09/07/2017 03:05
Xylenes, Total	ND	0.0042	0.0084	1	09/07/2017 03:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 4 feet	1709045-037A	Soil	08/31/2017 11:04	GC10 09061730.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>	
Dibromofluoromethane	109		70-130		09/07/2017 03:05
Toluene-d8	121		70-130		09/07/2017 03:05
4-BFB	96		70-130		09/07/2017 03:05
Benzene-d6	111		60-140		09/07/2017 03:05
Ethylbenzene-d10	122		60-140		09/07/2017 03:05
1,2-DCB-d4	90		60-140		09/07/2017 03:05

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 8 feet	1709045-038A	Soil	08/31/2017 11:10	GC10 09061731.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
Acetone	ND	0.064	0.16	1	09/07/2017 03:45
tert-Amyl methyl ether (TAME)	ND	0.0016	0.0082	1	09/07/2017 03:45
Benzene	ND	0.0026	0.0082	1	09/07/2017 03:45
Bromobenzene	ND	0.0028	0.0082	1	09/07/2017 03:45
Bromochloromethane	ND	0.0025	0.0082	1	09/07/2017 03:45
Bromodichloromethane	ND	0.0020	0.0082	1	09/07/2017 03:45
Bromoform	ND	0.0013	0.0082	1	09/07/2017 03:45
Bromomethane	ND	0.0033	0.0082	1	09/07/2017 03:45
2-Butanone (MEK)	ND	0.0088	0.033	1	09/07/2017 03:45
t-Butyl alcohol (TBA)	ND	0.0087	0.082	1	09/07/2017 03:45
n-Butyl benzene	ND	0.0057	0.0082	1	09/07/2017 03:45
sec-Butyl benzene	ND	0.0056	0.0082	1	09/07/2017 03:45
tert-Butyl benzene	ND	0.0049	0.0082	1	09/07/2017 03:45
Carbon Disulfide	ND	0.0028	0.0082	1	09/07/2017 03:45
Carbon Tetrachloride	ND	0.0028	0.0082	1	09/07/2017 03:45
Chlorobenzene	ND	0.0029	0.0082	1	09/07/2017 03:45
Chloroethane	ND	0.0026	0.0082	1	09/07/2017 03:45
Chloroform	ND	0.0026	0.0082	1	09/07/2017 03:45
Chloromethane	ND	0.0028	0.0082	1	09/07/2017 03:45
2-Chlorotoluene	ND	0.0036	0.0082	1	09/07/2017 03:45
4-Chlorotoluene	ND	0.0034	0.0082	1	09/07/2017 03:45
Dibromochloromethane	ND	0.0018	0.0082	1	09/07/2017 03:45
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0065	1	09/07/2017 03:45
1,2-Dibromoethane (EDB)	ND	0.0021	0.0065	1	09/07/2017 03:45
Dibromomethane	ND	0.0023	0.0082	1	09/07/2017 03:45
1,2-Dichlorobenzene	ND	0.0023	0.0082	1	09/07/2017 03:45
1,3-Dichlorobenzene	ND	0.0029	0.0082	1	09/07/2017 03:45
1,4-Dichlorobenzene	ND	0.0029	0.0082	1	09/07/2017 03:45
Dichlorodifluoromethane	ND	0.0018	0.0082	1	09/07/2017 03:45
1,1-Dichloroethane	ND	0.0028	0.0082	1	09/07/2017 03:45
1,2-Dichloroethane (1,2-DCA)	ND	0.0023	0.0082	1	09/07/2017 03:45
1,1-Dichloroethene	ND	0.0028	0.0082	1	09/07/2017 03:45
cis-1,2-Dichloroethene	ND	0.0025	0.0082	1	09/07/2017 03:45
trans-1,2-Dichloroethene	ND	0.0026	0.0082	1	09/07/2017 03:45
1,2-Dichloropropane	ND	0.0023	0.0082	1	09/07/2017 03:45
1,3-Dichloropropane	ND	0.0026	0.0082	1	09/07/2017 03:45
2,2-Dichloropropane	ND	0.0021	0.0082	1	09/07/2017 03:45

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 8 feet	1709045-038A	Soil	08/31/2017 11:10	GC10 09061731.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0029	0.0082	1	09/07/2017 03:45
cis-1,3-Dichloropropene	ND	0.0025	0.0082	1	09/07/2017 03:45
trans-1,3-Dichloropropene	ND	0.0023	0.0082	1	09/07/2017 03:45
Diisopropyl ether (DIPE)	ND	0.0023	0.0082	1	09/07/2017 03:45
Ethylbenzene	ND	0.0033	0.0082	1	09/07/2017 03:45
Ethyl tert-butyl ether (ETBE)	ND	0.0021	0.0082	1	09/07/2017 03:45
Freon 113	ND	0.0026	0.0082	1	09/07/2017 03:45
Hexachlorobutadiene	ND	0.0082	0.0082	1	09/07/2017 03:45
Hexachloroethane	ND	0.0041	0.0082	1	09/07/2017 03:45
2-Hexanone	ND	0.0041	0.0082	1	09/07/2017 03:45
Isopropylbenzene	ND	0.0036	0.0082	1	09/07/2017 03:45
4-Isopropyl toluene	ND	0.0051	0.0082	1	09/07/2017 03:45
Methyl-t-butyl ether (MTBE)	ND	0.0021	0.0082	1	09/07/2017 03:45
Methylene chloride	ND	0.0059	0.0082	1	09/07/2017 03:45
4-Methyl-2-pentanone (MIBK)	ND	0.0013	0.0082	1	09/07/2017 03:45
Naphthalene	ND	0.00098	0.0082	1	09/07/2017 03:45
n-Propyl benzene	ND	0.0047	0.0082	1	09/07/2017 03:45
Styrene	ND	0.0023	0.0082	1	09/07/2017 03:45
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0082	1	09/07/2017 03:45
1,1,2,2-Tetrachloroethane	ND	0.0021	0.0082	1	09/07/2017 03:45
Tetrachloroethene	ND	0.0038	0.0082	1	09/07/2017 03:45
Toluene	ND	0.0036	0.0082	1	09/07/2017 03:45
1,2,3-Trichlorobenzene	ND	0.0011	0.0082	1	09/07/2017 03:45
1,2,4-Trichlorobenzene	ND	0.0018	0.0082	1	09/07/2017 03:45
1,1,1-Trichloroethane	ND	0.0029	0.0082	1	09/07/2017 03:45
1,1,2-Trichloroethane	ND	0.0026	0.0082	1	09/07/2017 03:45
Trichloroethene	ND	0.0028	0.0082	1	09/07/2017 03:45
Trichlorofluoromethane	ND	0.0026	0.0082	1	09/07/2017 03:45
1,2,3-Trichloropropane	ND	0.0031	0.0082	1	09/07/2017 03:45
1,2,4-Trimethylbenzene	ND	0.0039	0.0082	1	09/07/2017 03:45
1,3,5-Trimethylbenzene	ND	0.0044	0.0082	1	09/07/2017 03:45
Vinyl Chloride	ND	0.0025	0.0082	1	09/07/2017 03:45
Xylenes, Total	ND	0.0041	0.0082	1	09/07/2017 03:45

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 8 feet	1709045-038A	Soil	08/31/2017 11:10	GC10 09061731.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>	
Dibromofluoromethane	109		70-130		09/07/2017 03:45
Toluene-d8	120		70-130		09/07/2017 03:45
4-BFB	98		70-130		09/07/2017 03:45
Benzene-d6	104		60-140		09/07/2017 03:45
Ethylbenzene-d10	116		60-140		09/07/2017 03:45
1,2-DCB-d4	87		60-140		09/07/2017 03:45

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 4 feet	1709045-041A	Soil	08/31/2017 13:55	GC10 09061732.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		0.11	0.29	1	09/07/2017 04:25
tert-Amyl methyl ether (TAME)	ND		0.0029	0.014	1	09/07/2017 04:25
Benzene	ND		0.0046	0.014	1	09/07/2017 04:25
Bromobenzene	ND		0.0049	0.014	1	09/07/2017 04:25
Bromochloromethane	ND		0.0043	0.014	1	09/07/2017 04:25
Bromodichloromethane	ND		0.0034	0.014	1	09/07/2017 04:25
Bromoform	ND		0.0023	0.014	1	09/07/2017 04:25
Bromomethane	ND		0.0057	0.014	1	09/07/2017 04:25
2-Butanone (MEK)	ND		0.015	0.057	1	09/07/2017 04:25
t-Butyl alcohol (TBA)	ND		0.015	0.14	1	09/07/2017 04:25
n-Butyl benzene	ND		0.010	0.014	1	09/07/2017 04:25
sec-Butyl benzene	ND		0.0097	0.014	1	09/07/2017 04:25
tert-Butyl benzene	ND		0.0086	0.014	1	09/07/2017 04:25
Carbon Disulfide	ND		0.0049	0.014	1	09/07/2017 04:25
Carbon Tetrachloride	ND		0.0049	0.014	1	09/07/2017 04:25
Chlorobenzene	ND		0.0052	0.014	1	09/07/2017 04:25
Chloroethane	ND		0.0046	0.014	1	09/07/2017 04:25
Chloroform	ND		0.0046	0.014	1	09/07/2017 04:25
Chloromethane	ND		0.0049	0.014	1	09/07/2017 04:25
2-Chlorotoluene	ND		0.0063	0.014	1	09/07/2017 04:25
4-Chlorotoluene	ND		0.0060	0.014	1	09/07/2017 04:25
Dibromochloromethane	ND		0.0032	0.014	1	09/07/2017 04:25
1,2-Dibromo-3-chloropropane	ND		0.0034	0.011	1	09/07/2017 04:25
1,2-Dibromoethane (EDB)	ND		0.0037	0.011	1	09/07/2017 04:25
Dibromomethane	ND		0.0040	0.014	1	09/07/2017 04:25
1,2-Dichlorobenzene	ND		0.0040	0.014	1	09/07/2017 04:25
1,3-Dichlorobenzene	ND		0.0052	0.014	1	09/07/2017 04:25
1,4-Dichlorobenzene	ND		0.0052	0.014	1	09/07/2017 04:25
Dichlorodifluoromethane	ND		0.0032	0.014	1	09/07/2017 04:25
1,1-Dichloroethane	ND		0.0049	0.014	1	09/07/2017 04:25
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	0.014	1	09/07/2017 04:25
1,1-Dichloroethene	ND		0.0049	0.014	1	09/07/2017 04:25
cis-1,2-Dichloroethene	ND		0.0043	0.014	1	09/07/2017 04:25
trans-1,2-Dichloroethene	ND		0.0046	0.014	1	09/07/2017 04:25
1,2-Dichloropropane	ND		0.0040	0.014	1	09/07/2017 04:25
1,3-Dichloropropane	ND		0.0046	0.014	1	09/07/2017 04:25
2,2-Dichloropropane	ND		0.0037	0.014	1	09/07/2017 04:25

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 4 feet	1709045-041A	Soil	08/31/2017 13:55	GC10 09061732.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0052	0.014	1	09/07/2017 04:25
cis-1,3-Dichloropropene	ND		0.0043	0.014	1	09/07/2017 04:25
trans-1,3-Dichloropropene	ND		0.0040	0.014	1	09/07/2017 04:25
Diisopropyl ether (DIPE)	ND		0.0040	0.014	1	09/07/2017 04:25
Ethylbenzene	ND		0.0057	0.014	1	09/07/2017 04:25
Ethyl tert-butyl ether (ETBE)	ND		0.0037	0.014	1	09/07/2017 04:25
Freon 113	ND		0.0046	0.014	1	09/07/2017 04:25
Hexachlorobutadiene	ND		0.014	0.014	1	09/07/2017 04:25
Hexachloroethane	ND		0.0072	0.014	1	09/07/2017 04:25
2-Hexanone	ND		0.0072	0.014	1	09/07/2017 04:25
Isopropylbenzene	ND		0.0063	0.014	1	09/07/2017 04:25
4-Isopropyl toluene	ND		0.0089	0.014	1	09/07/2017 04:25
Methyl-t-butyl ether (MTBE)	ND		0.0037	0.014	1	09/07/2017 04:25
Methylene chloride	ND		0.010	0.014	1	09/07/2017 04:25
4-Methyl-2-pentanone (MIBK)	ND		0.0023	0.014	1	09/07/2017 04:25
Naphthalene	0.0019	J	0.0017	0.014	1	09/07/2017 04:25
n-Propyl benzene	ND		0.0083	0.014	1	09/07/2017 04:25
Styrene	ND		0.0040	0.014	1	09/07/2017 04:25
1,1,1,2-Tetrachloroethane	ND		0.0046	0.014	1	09/07/2017 04:25
1,1,2,2-Tetrachloroethane	ND		0.0037	0.014	1	09/07/2017 04:25
Tetrachloroethene	ND		0.0066	0.014	1	09/07/2017 04:25
Toluene	ND		0.0063	0.014	1	09/07/2017 04:25
1,2,3-Trichlorobenzene	ND		0.0020	0.014	1	09/07/2017 04:25
1,2,4-Trichlorobenzene	ND		0.0032	0.014	1	09/07/2017 04:25
1,1,1-Trichloroethane	ND		0.0052	0.014	1	09/07/2017 04:25
1,1,2-Trichloroethane	ND		0.0046	0.014	1	09/07/2017 04:25
Trichloroethene	ND		0.0049	0.014	1	09/07/2017 04:25
Trichlorofluoromethane	ND		0.0046	0.014	1	09/07/2017 04:25
1,2,3-Trichloropropane	ND		0.0054	0.014	1	09/07/2017 04:25
1,2,4-Trimethylbenzene	ND		0.0069	0.014	1	09/07/2017 04:25
1,3,5-Trimethylbenzene	ND		0.0077	0.014	1	09/07/2017 04:25
Vinyl Chloride	ND		0.0043	0.014	1	09/07/2017 04:25
Xylenes, Total	ND		0.0072	0.014	1	09/07/2017 04:25

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 4 feet	1709045-041A	Soil	08/31/2017 13:55	GC10 09061732.D	144818

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	108			70-130		09/07/2017 04:25
Toluene-d8	122			70-130		09/07/2017 04:25
4-BFB	98			70-130		09/07/2017 04:25
Benzene-d6	104			60-140		09/07/2017 04:25
Ethylbenzene-d10	111			60-140		09/07/2017 04:25
1,2-DCB-d4	82			60-140		09/07/2017 04:25

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 8 feet	1709045-042A	Soil	08/31/2017 14:02	GC10 09061733.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
Acetone	ND	0.073	0.19	1	09/07/2017 05:05
tert-Amyl methyl ether (TAME)	ND	0.0019	0.0093	1	09/07/2017 05:05
Benzene	ND	0.0030	0.0093	1	09/07/2017 05:05
Bromobenzene	ND	0.0032	0.0093	1	09/07/2017 05:05
Bromochloromethane	ND	0.0028	0.0093	1	09/07/2017 05:05
Bromodichloromethane	ND	0.0022	0.0093	1	09/07/2017 05:05
Bromoform	ND	0.0015	0.0093	1	09/07/2017 05:05
Bromomethane	ND	0.0037	0.0093	1	09/07/2017 05:05
2-Butanone (MEK)	ND	0.010	0.037	1	09/07/2017 05:05
t-Butyl alcohol (TBA)	ND	0.0099	0.093	1	09/07/2017 05:05
n-Butyl benzene	ND	0.0065	0.0093	1	09/07/2017 05:05
sec-Butyl benzene	ND	0.0063	0.0093	1	09/07/2017 05:05
tert-Butyl benzene	ND	0.0056	0.0093	1	09/07/2017 05:05
Carbon Disulfide	ND	0.0032	0.0093	1	09/07/2017 05:05
Carbon Tetrachloride	ND	0.0032	0.0093	1	09/07/2017 05:05
Chlorobenzene	ND	0.0034	0.0093	1	09/07/2017 05:05
Chloroethane	ND	0.0030	0.0093	1	09/07/2017 05:05
Chloroform	ND	0.0030	0.0093	1	09/07/2017 05:05
Chloromethane	ND	0.0032	0.0093	1	09/07/2017 05:05
2-Chlorotoluene	ND	0.0041	0.0093	1	09/07/2017 05:05
4-Chlorotoluene	ND	0.0039	0.0093	1	09/07/2017 05:05
Dibromochloromethane	ND	0.0021	0.0093	1	09/07/2017 05:05
1,2-Dibromo-3-chloropropane	ND	0.0022	0.0075	1	09/07/2017 05:05
1,2-Dibromoethane (EDB)	ND	0.0024	0.0075	1	09/07/2017 05:05
Dibromomethane	ND	0.0026	0.0093	1	09/07/2017 05:05
1,2-Dichlorobenzene	ND	0.0026	0.0093	1	09/07/2017 05:05
1,3-Dichlorobenzene	ND	0.0034	0.0093	1	09/07/2017 05:05
1,4-Dichlorobenzene	ND	0.0034	0.0093	1	09/07/2017 05:05
Dichlorodifluoromethane	ND	0.0021	0.0093	1	09/07/2017 05:05
1,1-Dichloroethane	ND	0.0032	0.0093	1	09/07/2017 05:05
1,2-Dichloroethane (1,2-DCA)	ND	0.0026	0.0093	1	09/07/2017 05:05
1,1-Dichloroethene	ND	0.0032	0.0093	1	09/07/2017 05:05
cis-1,2-Dichloroethene	ND	0.0028	0.0093	1	09/07/2017 05:05
trans-1,2-Dichloroethene	ND	0.0030	0.0093	1	09/07/2017 05:05
1,2-Dichloropropane	ND	0.0026	0.0093	1	09/07/2017 05:05
1,3-Dichloropropane	ND	0.0030	0.0093	1	09/07/2017 05:05
2,2-Dichloropropane	ND	0.0024	0.0093	1	09/07/2017 05:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 8 feet	1709045-042A	Soil	08/31/2017 14:02	GC10 09061733.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0034	0.0093	1	09/07/2017 05:05
cis-1,3-Dichloropropene	ND	0.0028	0.0093	1	09/07/2017 05:05
trans-1,3-Dichloropropene	ND	0.0026	0.0093	1	09/07/2017 05:05
Diisopropyl ether (DIPE)	ND	0.0026	0.0093	1	09/07/2017 05:05
Ethylbenzene	ND	0.0037	0.0093	1	09/07/2017 05:05
Ethyl tert-butyl ether (ETBE)	ND	0.0024	0.0093	1	09/07/2017 05:05
Freon 113	ND	0.0030	0.0093	1	09/07/2017 05:05
Hexachlorobutadiene	ND	0.0093	0.0093	1	09/07/2017 05:05
Hexachloroethane	ND	0.0047	0.0093	1	09/07/2017 05:05
2-Hexanone	ND	0.0047	0.0093	1	09/07/2017 05:05
Isopropylbenzene	ND	0.0041	0.0093	1	09/07/2017 05:05
4-Isopropyl toluene	ND	0.0058	0.0093	1	09/07/2017 05:05
Methyl-t-butyl ether (MTBE)	ND	0.0024	0.0093	1	09/07/2017 05:05
Methylene chloride	ND	0.0067	0.0093	1	09/07/2017 05:05
4-Methyl-2-pentanone (MIBK)	ND	0.0015	0.0093	1	09/07/2017 05:05
Naphthalene	ND	0.0011	0.0093	1	09/07/2017 05:05
n-Propyl benzene	ND	0.0054	0.0093	1	09/07/2017 05:05
Styrene	ND	0.0026	0.0093	1	09/07/2017 05:05
1,1,1,2-Tetrachloroethane	ND	0.0030	0.0093	1	09/07/2017 05:05
1,1,2,2-Tetrachloroethane	ND	0.0024	0.0093	1	09/07/2017 05:05
Tetrachloroethene	ND	0.0043	0.0093	1	09/07/2017 05:05
Toluene	ND	0.0041	0.0093	1	09/07/2017 05:05
1,2,3-Trichlorobenzene	ND	0.0013	0.0093	1	09/07/2017 05:05
1,2,4-Trichlorobenzene	ND	0.0021	0.0093	1	09/07/2017 05:05
1,1,1-Trichloroethane	ND	0.0034	0.0093	1	09/07/2017 05:05
1,1,2-Trichloroethane	ND	0.0030	0.0093	1	09/07/2017 05:05
Trichloroethene	ND	0.0032	0.0093	1	09/07/2017 05:05
Trichlorofluoromethane	ND	0.0030	0.0093	1	09/07/2017 05:05
1,2,3-Trichloropropane	ND	0.0035	0.0093	1	09/07/2017 05:05
1,2,4-Trimethylbenzene	ND	0.0045	0.0093	1	09/07/2017 05:05
1,3,5-Trimethylbenzene	ND	0.0050	0.0093	1	09/07/2017 05:05
Vinyl Chloride	ND	0.0028	0.0093	1	09/07/2017 05:05
Xylenes, Total	ND	0.0047	0.0093	1	09/07/2017 05:05

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 8 feet	1709045-042A	Soil	08/31/2017 14:02	GC10 09061733.D	144818

Analytes	Result	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>	
Dibromofluoromethane	107		70-130		09/07/2017 05:05
Toluene-d8	123		70-130		09/07/2017 05:05
4-BFB	98		70-130		09/07/2017 05:05
Benzene-d6	100		60-140		09/07/2017 05:05
Ethylbenzene-d10	111		60-140		09/07/2017 05:05
1,2-DCB-d4	80		60-140		09/07/2017 05:05

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8	1709045-005C	Water	08/30/2017 10:53	GC10 09081740.D	145115	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	7.9	J	1.70	10	1	09/09/2017 12:20
tert-Amyl methyl ether (TAME)	ND		0.220	0.50	1	09/09/2017 12:20
Benzene	0.15	J	0.0510	0.50	1	09/09/2017 12:20
Bromobenzene	ND		0.0600	0.50	1	09/09/2017 12:20
Bromochloromethane	ND		0.0900	0.50	1	09/09/2017 12:20
Bromodichloromethane	ND		0.200	0.50	1	09/09/2017 12:20
Bromoform	ND		0.0660	0.50	1	09/09/2017 12:20
Bromomethane	ND		0.160	0.50	1	09/09/2017 12:20
2-Butanone (MEK)	0.59	J	0.490	2.0	1	09/09/2017 12:20
t-Butyl alcohol (TBA)	ND		0.940	2.0	1	09/09/2017 12:20
n-Butyl benzene	ND		0.0840	0.50	1	09/09/2017 12:20
sec-Butyl benzene	ND		0.0600	0.50	1	09/09/2017 12:20
tert-Butyl benzene	ND		0.0500	0.50	1	09/09/2017 12:20
Carbon Disulfide	0.15	J	0.0660	0.50	1	09/09/2017 12:20
Carbon Tetrachloride	ND		0.0690	0.50	1	09/09/2017 12:20
Chlorobenzene	ND		0.0500	0.50	1	09/09/2017 12:20
Chloroethane	ND		0.310	0.50	1	09/09/2017 12:20
Chloroform	1.5		0.0640	0.50	1	09/09/2017 12:20
Chloromethane	ND		0.130	0.50	1	09/09/2017 12:20
2-Chlorotoluene	ND		0.0700	0.50	1	09/09/2017 12:20
4-Chlorotoluene	ND		0.0700	0.50	1	09/09/2017 12:20
Dibromochloromethane	ND		0.0800	0.50	1	09/09/2017 12:20
1,2-Dibromo-3-chloropropane	ND		0.120	0.20	1	09/09/2017 12:20
1,2-Dibromoethane (EDB)	ND		0.120	0.50	1	09/09/2017 12:20
Dibromomethane	ND		0.0800	0.50	1	09/09/2017 12:20
1,2-Dichlorobenzene	ND		0.0800	0.50	1	09/09/2017 12:20
1,3-Dichlorobenzene	ND		0.0710	0.50	1	09/09/2017 12:20
1,4-Dichlorobenzene	ND		0.0720	0.50	1	09/09/2017 12:20
Dichlorodifluoromethane	ND		0.0630	0.50	1	09/09/2017 12:20
1,1-Dichloroethane	ND		0.0600	0.50	1	09/09/2017 12:20
1,2-Dichloroethane (1,2-DCA)	ND		0.0900	0.50	1	09/09/2017 12:20
1,1-Dichloroethene	ND		0.0860	0.50	1	09/09/2017 12:20
cis-1,2-Dichloroethene	0.17	J	0.0500	0.50	1	09/09/2017 12:20
trans-1,2-Dichloroethene	ND		0.0600	0.50	1	09/09/2017 12:20
1,2-Dichloropropane	ND		0.0550	0.50	1	09/09/2017 12:20
1,3-Dichloropropane	ND		0.100	0.50	1	09/09/2017 12:20
2,2-Dichloropropane	ND		0.100	0.50	1	09/09/2017 12:20

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8	1709045-005C	Water	08/30/2017 10:53	GC10 09081740.D	145115	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0600	0.50	1	09/09/2017 12:20
cis-1,3-Dichloropropene	ND		0.0900	0.50	1	09/09/2017 12:20
trans-1,3-Dichloropropene	ND		0.0700	0.50	1	09/09/2017 12:20
Diisopropyl ether (DIPE)	ND		0.0700	0.50	1	09/09/2017 12:20
Ethylbenzene	ND		0.0500	0.50	1	09/09/2017 12:20
Ethyl tert-butyl ether (ETBE)	ND		0.0700	0.50	1	09/09/2017 12:20
Freon 113	ND		0.0660	0.50	1	09/09/2017 12:20
Hexachlorobutadiene	ND		0.0850	0.50	1	09/09/2017 12:20
Hexachloroethane	ND		0.0600	0.50	1	09/09/2017 12:20
2-Hexanone	ND		0.440	0.50	1	09/09/2017 12:20
Isopropylbenzene	ND		0.0700	0.50	1	09/09/2017 12:20
4-Isopropyl toluene	ND		0.0500	0.50	1	09/09/2017 12:20
Methyl-t-butyl ether (MTBE)	0.44	J	0.100	0.50	1	09/09/2017 12:20
Methylene chloride	0.32	JB	0.0520	0.50	1	09/09/2017 12:20
4-Methyl-2-pentanone (MIBK)	ND		0.240	0.50	1	09/09/2017 12:20
Naphthalene	ND		0.160	0.50	1	09/09/2017 12:20
n-Propyl benzene	ND		0.0600	0.50	1	09/09/2017 12:20
Styrene	ND		0.0600	0.50	1	09/09/2017 12:20
1,1,1,2-Tetrachloroethane	ND		0.0700	0.50	1	09/09/2017 12:20
1,1,2,2-Tetrachloroethane	ND		0.110	0.50	1	09/09/2017 12:20
Tetrachloroethene	ND		0.0820	0.50	1	09/09/2017 12:20
Toluene	0.087	J	0.0400	0.50	1	09/09/2017 12:20
1,2,3-Trichlorobenzene	ND		0.110	0.50	1	09/09/2017 12:20
1,2,4-Trichlorobenzene	ND		0.0860	0.50	1	09/09/2017 12:20
1,1,1-Trichloroethane	ND		0.0500	0.50	1	09/09/2017 12:20
1,1,2-Trichloroethane	ND		0.0800	0.50	1	09/09/2017 12:20
Trichloroethene	1.4		0.0600	0.50	1	09/09/2017 12:20
Trichlorofluoromethane	3.2		0.0470	0.50	1	09/09/2017 12:20
1,2,3-Trichloropropane	ND		0.140	0.50	1	09/09/2017 12:20
1,2,4-Trimethylbenzene	ND		0.0650	0.50	1	09/09/2017 12:20
1,3,5-Trimethylbenzene	ND		0.0700	0.50	1	09/09/2017 12:20
Vinyl Chloride	ND		0.0700	0.50	1	09/09/2017 12:20
Xylenes, Total	ND		0.250	0.50	1	09/09/2017 12:20

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8	1709045-005C	Water	08/30/2017 10:53	GC10 09081740.D	145115

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	108			78-134		09/09/2017 12:20
Toluene-d8	110			82-120		09/09/2017 12:20
4-BFB	84			69-131		09/09/2017 12:20

Analyst(s): KF

Analytical Comments: b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-9	1709045-010C	Water	08/30/2017 10:32	GC10 09081715.D	145115	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		1.70	10	1	09/08/2017 17:03
tert-Amyl methyl ether (TAME)	ND		0.220	0.50	1	09/08/2017 17:03
Benzene	ND		0.0510	0.50	1	09/08/2017 17:03
Bromobenzene	ND		0.0600	0.50	1	09/08/2017 17:03
Bromochloromethane	ND		0.0900	0.50	1	09/08/2017 17:03
Bromodichloromethane	ND		0.200	0.50	1	09/08/2017 17:03
Bromoform	ND		0.0660	0.50	1	09/08/2017 17:03
Bromomethane	ND		0.160	0.50	1	09/08/2017 17:03
2-Butanone (MEK)	0.49	J	0.490	2.0	1	09/08/2017 17:03
t-Butyl alcohol (TBA)	ND		0.940	2.0	1	09/08/2017 17:03
n-Butyl benzene	ND		0.0840	0.50	1	09/08/2017 17:03
sec-Butyl benzene	ND		0.0600	0.50	1	09/08/2017 17:03
tert-Butyl benzene	ND		0.0500	0.50	1	09/08/2017 17:03
Carbon Disulfide	0.24	J	0.0660	0.50	1	09/08/2017 17:03
Carbon Tetrachloride	ND		0.0690	0.50	1	09/08/2017 17:03
Chlorobenzene	ND		0.0500	0.50	1	09/08/2017 17:03
Chloroethane	ND		0.310	0.50	1	09/08/2017 17:03
Chloroform	ND		0.0640	0.50	1	09/08/2017 17:03
Chloromethane	0.16	J	0.130	0.50	1	09/08/2017 17:03
2-Chlorotoluene	ND		0.0700	0.50	1	09/08/2017 17:03
4-Chlorotoluene	ND		0.0700	0.50	1	09/08/2017 17:03
Dibromochloromethane	ND		0.0800	0.50	1	09/08/2017 17:03
1,2-Dibromo-3-chloropropane	ND		0.120	0.20	1	09/08/2017 17:03
1,2-Dibromoethane (EDB)	ND		0.120	0.50	1	09/08/2017 17:03
Dibromomethane	ND		0.0800	0.50	1	09/08/2017 17:03
1,2-Dichlorobenzene	ND		0.0800	0.50	1	09/08/2017 17:03
1,3-Dichlorobenzene	ND		0.0710	0.50	1	09/08/2017 17:03
1,4-Dichlorobenzene	ND		0.0720	0.50	1	09/08/2017 17:03
Dichlorodifluoromethane	ND		0.0630	0.50	1	09/08/2017 17:03
1,1-Dichloroethane	ND		0.0600	0.50	1	09/08/2017 17:03
1,2-Dichloroethane (1,2-DCA)	ND		0.0900	0.50	1	09/08/2017 17:03
1,1-Dichloroethene	ND		0.0860	0.50	1	09/08/2017 17:03
cis-1,2-Dichloroethene	ND		0.0500	0.50	1	09/08/2017 17:03
trans-1,2-Dichloroethene	ND		0.0600	0.50	1	09/08/2017 17:03
1,2-Dichloropropane	ND		0.0550	0.50	1	09/08/2017 17:03
1,3-Dichloropropane	ND		0.100	0.50	1	09/08/2017 17:03
2,2-Dichloropropane	ND		0.100	0.50	1	09/08/2017 17:03

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-9	1709045-010C	Water	08/30/2017 10:32	GC10 09081715.D	145115	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0600	0.50	1	09/08/2017 17:03
cis-1,3-Dichloropropene	ND		0.0900	0.50	1	09/08/2017 17:03
trans-1,3-Dichloropropene	ND		0.0700	0.50	1	09/08/2017 17:03
Diisopropyl ether (DIPE)	ND		0.0700	0.50	1	09/08/2017 17:03
Ethylbenzene	ND		0.0500	0.50	1	09/08/2017 17:03
Ethyl tert-butyl ether (ETBE)	ND		0.0700	0.50	1	09/08/2017 17:03
Freon 113	ND		0.0660	0.50	1	09/08/2017 17:03
Hexachlorobutadiene	ND		0.0850	0.50	1	09/08/2017 17:03
Hexachloroethane	0.44	J	0.0600	0.50	1	09/08/2017 17:03
2-Hexanone	ND		0.440	0.50	1	09/08/2017 17:03
Isopropylbenzene	ND		0.0700	0.50	1	09/08/2017 17:03
4-Isopropyl toluene	ND		0.0500	0.50	1	09/08/2017 17:03
Methyl-t-butyl ether (MTBE)	2.6		0.100	0.50	1	09/08/2017 17:03
Methylene chloride	0.48	JB	0.0520	0.50	1	09/08/2017 17:03
4-Methyl-2-pentanone (MIBK)	ND		0.240	0.50	1	09/08/2017 17:03
Naphthalene	ND		0.160	0.50	1	09/08/2017 17:03
n-Propyl benzene	ND		0.0600	0.50	1	09/08/2017 17:03
Styrene	0.066	J	0.0600	0.50	1	09/08/2017 17:03
1,1,1,2-Tetrachloroethane	ND		0.0700	0.50	1	09/08/2017 17:03
1,1,2,2-Tetrachloroethane	ND		0.110	0.50	1	09/08/2017 17:03
Tetrachloroethene	ND		0.0820	0.50	1	09/08/2017 17:03
Toluene	0.067	J	0.0400	0.50	1	09/08/2017 17:03
1,2,3-Trichlorobenzene	ND		0.110	0.50	1	09/08/2017 17:03
1,2,4-Trichlorobenzene	ND		0.0860	0.50	1	09/08/2017 17:03
1,1,1-Trichloroethane	ND		0.0500	0.50	1	09/08/2017 17:03
1,1,2-Trichloroethane	ND		0.0800	0.50	1	09/08/2017 17:03
Trichloroethene	ND		0.0600	0.50	1	09/08/2017 17:03
Trichlorofluoromethane	ND		0.0470	0.50	1	09/08/2017 17:03
1,2,3-Trichloropropane	ND		0.140	0.50	1	09/08/2017 17:03
1,2,4-Trimethylbenzene	ND		0.0650	0.50	1	09/08/2017 17:03
1,3,5-Trimethylbenzene	ND		0.0700	0.50	1	09/08/2017 17:03
Vinyl Chloride	ND		0.0700	0.50	1	09/08/2017 17:03
Xylenes, Total	ND		0.250	0.50	1	09/08/2017 17:03

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9	1709045-010C	Water	08/30/2017 10:32	GC10 09081715.D	145115

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	111			78-134		09/08/2017 17:03
Toluene-d8	110			82-120		09/08/2017 17:03
4-BFB	94			69-131		09/08/2017 17:03

Analyst(s): KF **Analytical Comments:** b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11	1709045-020C	Water	08/30/2017 11:52	GC10 09081741.D	145115	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	40		1.70	10	1	09/09/2017 13:00
tert-Amyl methyl ether (TAME)	ND		0.220	0.50	1	09/09/2017 13:00
Benzene	0.12	J	0.0510	0.50	1	09/09/2017 13:00
Bromobenzene	ND		0.0600	0.50	1	09/09/2017 13:00
Bromochloromethane	ND		0.0900	0.50	1	09/09/2017 13:00
Bromodichloromethane	ND		0.200	0.50	1	09/09/2017 13:00
Bromoform	ND		0.0660	0.50	1	09/09/2017 13:00
Bromomethane	ND		0.160	0.50	1	09/09/2017 13:00
2-Butanone (MEK)	4.3		0.490	2.0	1	09/09/2017 13:00
t-Butyl alcohol (TBA)	1.0	J	0.940	2.0	1	09/09/2017 13:00
n-Butyl benzene	ND		0.0840	0.50	1	09/09/2017 13:00
sec-Butyl benzene	ND		0.0600	0.50	1	09/09/2017 13:00
tert-Butyl benzene	ND		0.0500	0.50	1	09/09/2017 13:00
Carbon Disulfide	0.22	J	0.0660	0.50	1	09/09/2017 13:00
Carbon Tetrachloride	ND		0.0690	0.50	1	09/09/2017 13:00
Chlorobenzene	ND		0.0500	0.50	1	09/09/2017 13:00
Chloroethane	ND		0.310	0.50	1	09/09/2017 13:00
Chloroform	ND		0.0640	0.50	1	09/09/2017 13:00
Chloromethane	ND		0.130	0.50	1	09/09/2017 13:00
2-Chlorotoluene	ND		0.0700	0.50	1	09/09/2017 13:00
4-Chlorotoluene	ND		0.0700	0.50	1	09/09/2017 13:00
Dibromochloromethane	ND		0.0800	0.50	1	09/09/2017 13:00
1,2-Dibromo-3-chloropropane	ND		0.120	0.20	1	09/09/2017 13:00
1,2-Dibromoethane (EDB)	ND		0.120	0.50	1	09/09/2017 13:00
Dibromomethane	ND		0.0800	0.50	1	09/09/2017 13:00
1,2-Dichlorobenzene	ND		0.0800	0.50	1	09/09/2017 13:00
1,3-Dichlorobenzene	ND		0.0710	0.50	1	09/09/2017 13:00
1,4-Dichlorobenzene	ND		0.0720	0.50	1	09/09/2017 13:00
Dichlorodifluoromethane	ND		0.0630	0.50	1	09/09/2017 13:00
1,1-Dichloroethane	ND		0.0600	0.50	1	09/09/2017 13:00
1,2-Dichloroethane (1,2-DCA)	ND		0.0900	0.50	1	09/09/2017 13:00
1,1-Dichloroethene	ND		0.0860	0.50	1	09/09/2017 13:00
cis-1,2-Dichloroethene	0.052	J	0.0500	0.50	1	09/09/2017 13:00
trans-1,2-Dichloroethene	ND		0.0600	0.50	1	09/09/2017 13:00
1,2-Dichloropropane	ND		0.0550	0.50	1	09/09/2017 13:00
1,3-Dichloropropane	ND		0.100	0.50	1	09/09/2017 13:00
2,2-Dichloropropane	ND		0.100	0.50	1	09/09/2017 13:00

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11	1709045-020C	Water	08/30/2017 11:52	GC10 09081741.D	145115	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0600	0.50	1	09/09/2017 13:00
cis-1,3-Dichloropropene	ND		0.0900	0.50	1	09/09/2017 13:00
trans-1,3-Dichloropropene	ND		0.0700	0.50	1	09/09/2017 13:00
Diisopropyl ether (DIPE)	ND		0.0700	0.50	1	09/09/2017 13:00
Ethylbenzene	ND		0.0500	0.50	1	09/09/2017 13:00
Ethyl tert-butyl ether (ETBE)	ND		0.0700	0.50	1	09/09/2017 13:00
Freon 113	ND		0.0660	0.50	1	09/09/2017 13:00
Hexachlorobutadiene	ND		0.0850	0.50	1	09/09/2017 13:00
Hexachloroethane	ND		0.0600	0.50	1	09/09/2017 13:00
2-Hexanone	ND		0.440	0.50	1	09/09/2017 13:00
Isopropylbenzene	ND		0.0700	0.50	1	09/09/2017 13:00
4-Isopropyl toluene	ND		0.0500	0.50	1	09/09/2017 13:00
Methyl-t-butyl ether (MTBE)	ND		0.100	0.50	1	09/09/2017 13:00
Methylene chloride	0.33	JB	0.0520	0.50	1	09/09/2017 13:00
4-Methyl-2-pentanone (MIBK)	ND		0.240	0.50	1	09/09/2017 13:00
Naphthalene	ND		0.160	0.50	1	09/09/2017 13:00
n-Propyl benzene	ND		0.0600	0.50	1	09/09/2017 13:00
Styrene	ND		0.0600	0.50	1	09/09/2017 13:00
1,1,1,2-Tetrachloroethane	ND		0.0700	0.50	1	09/09/2017 13:00
1,1,2,2-Tetrachloroethane	ND		0.110	0.50	1	09/09/2017 13:00
Tetrachloroethene	ND		0.0820	0.50	1	09/09/2017 13:00
Toluene	0.071	J	0.0400	0.50	1	09/09/2017 13:00
1,2,3-Trichlorobenzene	ND		0.110	0.50	1	09/09/2017 13:00
1,2,4-Trichlorobenzene	ND		0.0860	0.50	1	09/09/2017 13:00
1,1,1-Trichloroethane	ND		0.0500	0.50	1	09/09/2017 13:00
1,1,2-Trichloroethane	ND		0.0800	0.50	1	09/09/2017 13:00
Trichloroethene	0.097	J	0.0600	0.50	1	09/09/2017 13:00
Trichlorofluoromethane	1.7		0.0470	0.50	1	09/09/2017 13:00
1,2,3-Trichloropropane	ND		0.140	0.50	1	09/09/2017 13:00
1,2,4-Trimethylbenzene	ND		0.0650	0.50	1	09/09/2017 13:00
1,3,5-Trimethylbenzene	ND		0.0700	0.50	1	09/09/2017 13:00
Vinyl Chloride	ND		0.0700	0.50	1	09/09/2017 13:00
Xylenes, Total	ND		0.250	0.50	1	09/09/2017 13:00

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17-9/9/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1709045-020C	Water	08/30/2017 11:52	GC10 09081741.D	145115

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	109			78-134		09/09/2017 13:00
Toluene-d8	108			82-120		09/09/2017 13:00
4-BFB	85			69-131		09/09/2017 13:00

Analyst(s): KF **Analytical Comments:** b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8, 4 feet	1709045-001A	Soil	08/30/2017 10:43	GC10 09061707.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.70	0.70	1	09/06/2017 11:19
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	111	H	70-130			09/06/2017 11:19
Benzene-D6	88	H	70-130			09/06/2017 11:19
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8, 8 feet	1709045-002A	Soil	08/30/2017 10:45	GC10 09061708.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.77	0.77	1	09/06/2017 12:01
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/06/2017 12:01
Benzene-D6	87	H	70-130			09/06/2017 12:01
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-9, 4 feet	1709045-006A	Soil	08/30/2017 09:58	GC10 09061709.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.40	0.40	1	09/06/2017 12:42
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/06/2017 12:42
Benzene-D6	84	H	70-130			09/06/2017 12:42
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-9, 8 feet	1709045-007A	Soil	08/30/2017 10:02	GC10 09061710.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.56	0.56	1	09/06/2017 13:24
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/06/2017 13:24
Benzene-D6	83	H	70-130			09/06/2017 13:24
<u>Analyst(s):</u> AK			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-10, 4 feet	1709045-012A	Soil	08/30/2017 12:10	GC10 09061711.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.46	0.46	1	09/06/2017 14:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/06/2017 14:05
Benzene-D6	74	H	70-130			09/06/2017 14:05
<u>Analyst(s):</u> AK			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-10, 8 feet	1709045-013A	Soil	08/30/2017 12:13	GC10 09061712.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	1.5	H	0.42	0.42	1	09/06/2017 14:46
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	113	H	70-130			09/06/2017 14:46
Benzene-D6	83	H	70-130			09/06/2017 14:46
<u>Analyst(s):</u> AK			<u>Analytical Comments:</u> a9			

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11, 4 feet	1709045-016A	Soil	08/30/2017 11:15	GC10 09061713.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	0.70	H	0.61	0.61	1	09/06/2017 15:27
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	111	H	70-130			09/06/2017 15:27
Benzene-D6	80	H	70-130			09/06/2017 15:27
<u>Analyst(s):</u> AK			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11, 8 feet	1709045-017A	Soil	08/30/2017 11:18	GC10 09061714.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.41	0.41	1	09/06/2017 16:07
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/06/2017 16:07
Benzene-D6	81	H	70-130			09/06/2017 16:07
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-12, 4 feet	1709045-021A	Soil	08/30/2017 13:55	GC10 09061716.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.45	0.45	1	09/06/2017 17:28
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	111	H	70-130			09/06/2017 17:28
Benzene-D6	81	H	70-130			09/06/2017 17:28
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-12, 8 feet	1709045-022A	Soil	08/30/2017 14:00	GC10 09061724.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.42	0.42	1	09/06/2017 23:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/06/2017 23:05
Benzene-D6	90	H	70-130			09/06/2017 23:05
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-13, 4 feet	1709045-025A	Soil	08/30/2017 13:40	GC10 09061725.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.41	0.41	1	09/06/2017 23:45
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	111	H	70-130			09/06/2017 23:45
Benzene-D6	87	H	70-130			09/06/2017 23:45
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-13, 8 feet	1709045-026A	Soil	08/30/2017 13:45	GC10 09061726.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.43	0.43	1	09/07/2017 00:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/07/2017 00:25
Benzene-D6	93	H	70-130			09/07/2017 00:25
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-14, 4 feet	1709045-029A	Soil	08/30/2017 13:27	GC10 09061717.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.45	0.45	1	09/06/2017 18:08
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	115	H	70-130			09/06/2017 18:08
Benzene-D6	103	H	70-130			09/06/2017 18:08
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-14, 8 feet	1709045-030A	Soil	08/30/2017 13:32	GC10 09061727.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.52	0.52	1	09/07/2017 01:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/07/2017 01:05
Benzene-D6	96	H	70-130			09/07/2017 01:05
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-15, 4 feet	1709045-033A	Soil	08/30/2017 13:05	GC10 09061728.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.54	0.54	1	09/07/2017 01:46
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	112	H	70-130			09/07/2017 01:46
Benzene-D6	94	H	70-130			09/07/2017 01:46
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-15, 8 feet	1709045-034A	Soil	08/30/2017 13:11	GC10 09061729.D	144818	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	H	0.49	0.49	1	09/07/2017 02:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	110	H	70-130			09/07/2017 02:25
Benzene-D6	89	H	70-130			09/07/2017 02:25
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-16, 4 feet	1709045-037A	Soil	08/31/2017 11:04	GC10 09061730.D	144818	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.42	0.42	1	09/07/2017 03:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	112		70-130			09/07/2017 03:05
Benzene-D6	98		70-130			09/07/2017 03:05
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-16, 8 feet	1709045-038A	Soil	08/31/2017 11:10	GC10 09061731.D	144818	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.41	0.41	1	09/07/2017 03:45
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	112		70-130			09/07/2017 03:45
Benzene-D6	92		70-130			09/07/2017 03:45
<u>Analyst(s):</u> KF			<u>Analytical Comments:</u> a9			

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 4 feet	1709045-041A	Soil	08/31/2017 13:55	GC10 09061732.D	144818
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	0.72	0.72	1	09/07/2017 04:25
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Dibromofluoromethane	111	70-130			09/07/2017 04:25
Benzene-D6	93	70-130			09/07/2017 04:25
<u>Analyst(s):</u> KF	<u>Analytical Comments:</u> a9				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 8 feet	1709045-042A	Soil	08/31/2017 14:02	GC10 09061733.D	144818
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND	0.47	0.47	1	09/07/2017 05:05
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Dibromofluoromethane	110	70-130			09/07/2017 05:05
Benzene-D6	90	70-130			09/07/2017 05:05
<u>Analyst(s):</u> KF	<u>Analytical Comments:</u> a9				



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/8/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8	1709045-005C	Water	08/30/2017 10:53	GC10 09081714.D	145115

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	09/08/2017 16:23

Surrogates	REC (%)	Limits
Dibromofluoromethane	114	70-130

Analyst(s): KF **Analytical Comments:** b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9	1709045-010C	Water	08/30/2017 10:32	GC10 09081715.D	145115

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	09/08/2017 17:03

Surrogates	REC (%)	Limits
Dibromofluoromethane	114	70-130

Analyst(s): KF **Analytical Comments:** b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1709045-020C	Water	08/30/2017 11:52	GC10 09081716.D	145115

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	09/08/2017 17:44

Surrogates	REC (%)	Limits
Dibromofluoromethane	114	70-130

Analyst(s): KF **Analytical Comments:** b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 3.5-4 feet	1709045-003A	Soil	08/30/2017 10:43	GC35 09071708.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.026	0.10	10	09/07/2017 12:31
Acenaphthylene	ND		0.034	0.10	10	09/07/2017 12:31
Anthracene	ND		0.029	0.10	10	09/07/2017 12:31
Benzo (a) anthracene	0.089	J	0.017	0.10	10	09/07/2017 12:31
Benzo (a) pyrene	0.056	J	0.027	0.10	10	09/07/2017 12:31
Benzo (b) fluoranthene	0.084	J	0.015	0.10	10	09/07/2017 12:31
Benzo (g,h,i) perylene	0.10		0.033	0.10	10	09/07/2017 12:31
Benzo (k) fluoranthene	0.047	J	0.016	0.10	10	09/07/2017 12:31
Chrysene	0.079	J	0.024	0.10	10	09/07/2017 12:31
Dibenzo (a,h) anthracene	ND		0.050	0.10	10	09/07/2017 12:31
Fluoranthene	0.074	J	0.040	0.10	10	09/07/2017 12:31
Fluorene	ND		0.060	0.10	10	09/07/2017 12:31
Indeno (1,2,3-cd) pyrene	0.050	J	0.049	0.10	10	09/07/2017 12:31
1-Methylnaphthalene	ND		0.029	0.10	10	09/07/2017 12:31
2-Methylnaphthalene	ND		0.020	0.10	10	09/07/2017 12:31
Naphthalene	ND		0.016	0.10	10	09/07/2017 12:31
Phenanthrene	0.043	J	0.035	0.10	10	09/07/2017 12:31
Pyrene	0.10		0.045	0.10	10	09/07/2017 12:31

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
1-Fluoronaphthalene	140	S	30-130	09/07/2017 12:31
2-Fluorobiphenyl	158	S	30-130	09/07/2017 12:31

Analyst(s): REB

Analytical Comments: c1

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 7.5-8 feet	1709045-004A	Soil	08/30/2017 10:45	GC35 09071709.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.052	0.20	20	09/07/2017 12:56
Acenaphthylene	ND		0.068	0.20	20	09/07/2017 12:56
Anthracene	ND		0.058	0.20	20	09/07/2017 12:56
Benzo (a) anthracene	0.25		0.034	0.20	20	09/07/2017 12:56
Benzo (a) pyrene	0.091	J	0.054	0.20	20	09/07/2017 12:56
Benzo (b) fluoranthene	0.15	J	0.030	0.20	20	09/07/2017 12:56
Benzo (g,h,i) perylene	0.12	J	0.066	0.20	20	09/07/2017 12:56
Benzo (k) fluoranthene	0.083	J	0.032	0.20	20	09/07/2017 12:56
Chrysene	0.22		0.048	0.20	20	09/07/2017 12:56
Dibenzo (a,h) anthracene	ND		0.10	0.20	20	09/07/2017 12:56
Fluoranthene	0.28		0.080	0.20	20	09/07/2017 12:56
Fluorene	ND		0.12	0.20	20	09/07/2017 12:56
Indeno (1,2,3-cd) pyrene	ND		0.098	0.20	20	09/07/2017 12:56
1-Methylnaphthalene	ND		0.058	0.20	20	09/07/2017 12:56
2-Methylnaphthalene	ND		0.040	0.20	20	09/07/2017 12:56
Naphthalene	ND		0.032	0.20	20	09/07/2017 12:56
Phenanthrene	0.27		0.070	0.20	20	09/07/2017 12:56
Pyrene	0.40		0.090	0.20	20	09/07/2017 12:56

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
1-Fluoronaphthalene	129		30-130	09/07/2017 12:56
2-Fluorobiphenyl	137	S	30-130	09/07/2017 12:56

Analyst(s): REB

Analytical Comments: c1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 3.5-4 feet	1709045-008A	Soil	08/30/2017 09:58	GC35 09061724.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0026	0.010	1	09/06/2017 20:20
Acenaphthylene	ND		0.0034	0.010	1	09/06/2017 20:20
Anthracene	ND		0.0029	0.010	1	09/06/2017 20:20
Benzo (a) anthracene	0.0058	J	0.0017	0.010	1	09/06/2017 20:20
Benzo (a) pyrene	ND		0.0027	0.010	1	09/06/2017 20:20
Benzo (b) fluoranthene	ND		0.0015	0.010	1	09/06/2017 20:20
Benzo (g,h,i) perylene	ND		0.0033	0.010	1	09/06/2017 20:20
Benzo (k) fluoranthene	ND		0.0016	0.010	1	09/06/2017 20:20
Chrysene	ND		0.0024	0.010	1	09/06/2017 20:20
Dibenzo (a,h) anthracene	ND		0.0050	0.010	1	09/06/2017 20:20
Fluoranthene	ND		0.0040	0.010	1	09/06/2017 20:20
Fluorene	ND		0.0060	0.010	1	09/06/2017 20:20
Indeno (1,2,3-cd) pyrene	ND		0.0049	0.010	1	09/06/2017 20:20
1-Methylnaphthalene	ND		0.0029	0.010	1	09/06/2017 20:20
2-Methylnaphthalene	ND		0.0020	0.010	1	09/06/2017 20:20
Naphthalene	0.0016	J	0.0016	0.010	1	09/06/2017 20:20
Phenanthrene	ND		0.0035	0.010	1	09/06/2017 20:20
Pyrene	ND		0.0045	0.010	1	09/06/2017 20:20
Surrogates	REC (%)			Limits		
1-Fluoronaphthalene	116			30-130		09/06/2017 20:20
2-Fluorobiphenyl	119			30-130		09/06/2017 20:20

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 7.5-8 feet	1709045-009A	Soil	08/30/2017 10:02	GC35 09061725.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0026	0.010	1	09/06/2017 20:45
Acenaphthylene	ND		0.0034	0.010	1	09/06/2017 20:45
Anthracene	ND		0.0029	0.010	1	09/06/2017 20:45
Benzo (a) anthracene	0.0060	J	0.0017	0.010	1	09/06/2017 20:45
Benzo (a) pyrene	ND		0.0027	0.010	1	09/06/2017 20:45
Benzo (b) fluoranthene	ND		0.0015	0.010	1	09/06/2017 20:45
Benzo (g,h,i) perylene	ND		0.0033	0.010	1	09/06/2017 20:45
Benzo (k) fluoranthene	ND		0.0016	0.010	1	09/06/2017 20:45
Chrysene	0.0057	J	0.0024	0.010	1	09/06/2017 20:45
Dibenzo (a,h) anthracene	ND		0.0050	0.010	1	09/06/2017 20:45
Fluoranthene	ND		0.0040	0.010	1	09/06/2017 20:45
Fluorene	ND		0.0060	0.010	1	09/06/2017 20:45
Indeno (1,2,3-cd) pyrene	ND		0.0049	0.010	1	09/06/2017 20:45
1-Methylnaphthalene	ND		0.0029	0.010	1	09/06/2017 20:45
2-Methylnaphthalene	ND		0.0020	0.010	1	09/06/2017 20:45
Naphthalene	0.0017	J	0.0016	0.010	1	09/06/2017 20:45
Phenanthrene	ND		0.0035	0.010	1	09/06/2017 20:45
Pyrene	ND		0.0045	0.010	1	09/06/2017 20:45
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
1-Fluoronaphthalene	113			30-130		09/06/2017 20:45
2-Fluorobiphenyl	116			30-130		09/06/2017 20:45

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-8 feet	1709045-014A	Soil	08/30/2017 12:10	GC35 09061726.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.013	0.050	5	09/06/2017 21:10
Acenaphthylene	ND		0.017	0.050	5	09/06/2017 21:10
Anthracene	ND		0.014	0.050	5	09/06/2017 21:10
Benzo (a) anthracene	0.042	J	0.0085	0.050	5	09/06/2017 21:10
Benzo (a) pyrene	0.016	J	0.014	0.050	5	09/06/2017 21:10
Benzo (b) fluoranthene	ND		0.0075	0.050	5	09/06/2017 21:10
Benzo (g,h,i) perylene	0.021	J	0.016	0.050	5	09/06/2017 21:10
Benzo (k) fluoranthene	ND		0.0080	0.050	5	09/06/2017 21:10
Chrysene	ND		0.012	0.050	5	09/06/2017 21:10
Dibenzo (a,h) anthracene	ND		0.025	0.050	5	09/06/2017 21:10
Fluoranthene	ND		0.020	0.050	5	09/06/2017 21:10
Fluorene	ND		0.030	0.050	5	09/06/2017 21:10
Indeno (1,2,3-cd) pyrene	ND		0.024	0.050	5	09/06/2017 21:10
1-Methylnaphthalene	ND		0.014	0.050	5	09/06/2017 21:10
2-Methylnaphthalene	ND		0.010	0.050	5	09/06/2017 21:10
Naphthalene	ND		0.0080	0.050	5	09/06/2017 21:10
Phenanthrene	ND		0.018	0.050	5	09/06/2017 21:10
Pyrene	ND		0.022	0.050	5	09/06/2017 21:10

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	123	30-130	09/06/2017 21:10
2-Fluorobiphenyl	125	30-130	09/06/2017 21:10

Analyst(s): REB

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 7.5-8 feet	1709045-015A	Soil	08/30/2017 12:13	GC35 09071710.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	0.0085	J	0.0052	0.020	2	09/07/2017 13:21
Acenaphthylene	0.0089	J	0.0068	0.020	2	09/07/2017 13:21
Anthracene	ND		0.0058	0.020	2	09/07/2017 13:21
Benzo (a) anthracene	0.014	J	0.0034	0.020	2	09/07/2017 13:21
Benzo (a) pyrene	0.0083	J	0.0054	0.020	2	09/07/2017 13:21
Benzo (b) fluoranthene	0.012	J	0.0030	0.020	2	09/07/2017 13:21
Benzo (g,h,i) perylene	0.0068	J	0.0066	0.020	2	09/07/2017 13:21
Benzo (k) fluoranthene	0.0057	J	0.0032	0.020	2	09/07/2017 13:21
Chrysene	0.056		0.0048	0.020	2	09/07/2017 13:21
Dibenzo (a,h) anthracene	ND		0.010	0.020	2	09/07/2017 13:21
Fluoranthene	0.034		0.0080	0.020	2	09/07/2017 13:21
Fluorene	ND		0.012	0.020	2	09/07/2017 13:21
Indeno (1,2,3-cd) pyrene	ND		0.0098	0.020	2	09/07/2017 13:21
1-Methylnaphthalene	ND		0.0058	0.020	2	09/07/2017 13:21
2-Methylnaphthalene	0.0044	J	0.0040	0.020	2	09/07/2017 13:21
Naphthalene	ND		0.0032	0.020	2	09/07/2017 13:21
Phenanthrene	ND		0.0070	0.020	2	09/07/2017 13:21
Pyrene	0.041		0.0090	0.020	2	09/07/2017 13:21
Surrogates	REC (%)			Limits		
1-Fluoronaphthalene	122			30-130		09/07/2017 13:21
2-Fluorobiphenyl	118			30-130		09/07/2017 13:21

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 3.5-4 feet	1709045-018A	Soil	08/30/2017 11:15	GC35 09071711.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.13	0.50	50	09/07/2017 13:46
Acenaphthylene	ND		0.17	0.50	50	09/07/2017 13:46
Anthracene	ND		0.15	0.50	50	09/07/2017 13:46
Benzo (a) anthracene	0.20	J	0.085	0.50	50	09/07/2017 13:46
Benzo (a) pyrene	0.43	J	0.14	0.50	50	09/07/2017 13:46
Benzo (b) fluoranthene	0.20	J	0.075	0.50	50	09/07/2017 13:46
Benzo (g,h,i) perylene	0.20	J	0.16	0.50	50	09/07/2017 13:46
Benzo (k) fluoranthene	0.17	J	0.080	0.50	50	09/07/2017 13:46
Chrysene	0.72		0.12	0.50	50	09/07/2017 13:46
Dibenzo (a,h) anthracene	ND		0.25	0.50	50	09/07/2017 13:46
Fluoranthene	ND		0.20	0.50	50	09/07/2017 13:46
Fluorene	ND		0.30	0.50	50	09/07/2017 13:46
Indeno (1,2,3-cd) pyrene	ND		0.24	0.50	50	09/07/2017 13:46
1-Methylnaphthalene	ND		0.15	0.50	50	09/07/2017 13:46
2-Methylnaphthalene	ND		0.10	0.50	50	09/07/2017 13:46
Naphthalene	ND		0.080	0.50	50	09/07/2017 13:46
Phenanthrene	ND		0.18	0.50	50	09/07/2017 13:46
Pyrene	ND		0.23	0.50	50	09/07/2017 13:46

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
1-Fluoronaphthalene	144	S	30-130	09/07/2017 13:46
2-Fluorobiphenyl	157	S	30-130	09/07/2017 13:46

Analyst(s): REB

Analytical Comments: c1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 7.5-8 feet	1709045-019A	Soil	08/30/2017 11:18	GC35 09071712.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.013	0.050	5	09/07/2017 14:11
Acenaphthylene	ND		0.017	0.050	5	09/07/2017 14:11
Anthracene	ND		0.014	0.050	5	09/07/2017 14:11
Benzo (a) anthracene	0.049	J	0.0085	0.050	5	09/07/2017 14:11
Benzo (a) pyrene	ND		0.014	0.050	5	09/07/2017 14:11
Benzo (b) fluoranthene	0.0093	J	0.0075	0.050	5	09/07/2017 14:11
Benzo (g,h,i) perylene	ND		0.016	0.050	5	09/07/2017 14:11
Benzo (k) fluoranthene	0.011	J	0.0080	0.050	5	09/07/2017 14:11
Chrysene	ND		0.012	0.050	5	09/07/2017 14:11
Dibenzo (a,h) anthracene	ND		0.025	0.050	5	09/07/2017 14:11
Fluoranthene	ND		0.020	0.050	5	09/07/2017 14:11
Fluorene	ND		0.030	0.050	5	09/07/2017 14:11
Indeno (1,2,3-cd) pyrene	ND		0.024	0.050	5	09/07/2017 14:11
1-Methylnaphthalene	ND		0.014	0.050	5	09/07/2017 14:11
2-Methylnaphthalene	ND		0.010	0.050	5	09/07/2017 14:11
Naphthalene	ND		0.0080	0.050	5	09/07/2017 14:11
Phenanthrene	ND		0.018	0.050	5	09/07/2017 14:11
Pyrene	ND		0.022	0.050	5	09/07/2017 14:11

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	121	30-130	09/07/2017 14:11
2-Fluorobiphenyl	119	30-130	09/07/2017 14:11

Analyst(s): REB

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4 feet	1709045-023A	Soil	08/30/2017 13:55	GC35 09071721.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0026	0.010	1	09/07/2017 18:07
Acenaphthylene	ND		0.0034	0.010	1	09/07/2017 18:07
Anthracene	ND		0.0029	0.010	1	09/07/2017 18:07
Benzo (a) anthracene	ND		0.0017	0.010	1	09/07/2017 18:07
Benzo (a) pyrene	ND		0.0027	0.010	1	09/07/2017 18:07
Benzo (b) fluoranthene	0.0020	J	0.0015	0.010	1	09/07/2017 18:07
Benzo (g,h,i) perylene	ND		0.0033	0.010	1	09/07/2017 18:07
Benzo (k) fluoranthene	ND		0.0016	0.010	1	09/07/2017 18:07
Chrysene	ND		0.0024	0.010	1	09/07/2017 18:07
Dibenzo (a,h) anthracene	ND		0.0050	0.010	1	09/07/2017 18:07
Fluoranthene	ND		0.0040	0.010	1	09/07/2017 18:07
Fluorene	ND		0.0060	0.010	1	09/07/2017 18:07
Indeno (1,2,3-cd) pyrene	ND		0.0049	0.010	1	09/07/2017 18:07
1-Methylnaphthalene	ND		0.0029	0.010	1	09/07/2017 18:07
2-Methylnaphthalene	ND		0.0020	0.010	1	09/07/2017 18:07
Naphthalene	ND		0.0016	0.010	1	09/07/2017 18:07
Phenanthrene	ND		0.0035	0.010	1	09/07/2017 18:07
Pyrene	ND		0.0045	0.010	1	09/07/2017 18:07
Surrogates	REC (%)			Limits		
1-Fluoronaphthalene	114			30-130		09/07/2017 18:07
2-Fluorobiphenyl	116			30-130		09/07/2017 18:07

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7.5-8 feet	1709045-024A	Soil	08/30/2017 14:00	GC35 09071714.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0026	0.010	1	09/07/2017 15:01
Acenaphthylene	ND		0.0034	0.010	1	09/07/2017 15:01
Anthracene	ND		0.0029	0.010	1	09/07/2017 15:01
Benzo (a) anthracene	0.0043	J	0.0017	0.010	1	09/07/2017 15:01
Benzo (a) pyrene	ND		0.0027	0.010	1	09/07/2017 15:01
Benzo (b) fluoranthene	ND		0.0015	0.010	1	09/07/2017 15:01
Benzo (g,h,i) perylene	0.0050	J	0.0033	0.010	1	09/07/2017 15:01
Benzo (k) fluoranthene	ND		0.0016	0.010	1	09/07/2017 15:01
Chrysene	ND		0.0024	0.010	1	09/07/2017 15:01
Dibenzo (a,h) anthracene	ND		0.0050	0.010	1	09/07/2017 15:01
Fluoranthene	ND		0.0040	0.010	1	09/07/2017 15:01
Fluorene	ND		0.0060	0.010	1	09/07/2017 15:01
Indeno (1,2,3-cd) pyrene	ND		0.0049	0.010	1	09/07/2017 15:01
1-Methylnaphthalene	ND		0.0029	0.010	1	09/07/2017 15:01
2-Methylnaphthalene	ND		0.0020	0.010	1	09/07/2017 15:01
Naphthalene	ND		0.0016	0.010	1	09/07/2017 15:01
Phenanthrene	ND		0.0035	0.010	1	09/07/2017 15:01
Pyrene	ND		0.0045	0.010	1	09/07/2017 15:01

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	111	30-130	09/07/2017 15:01
2-Fluorobiphenyl	112	30-130	09/07/2017 15:01

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4 feet	1709045-027A	Soil	08/30/2017 13:40	GC35 09071722.D	144931

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	0.010	1	09/07/2017 18:32
Acenaphthylene	ND	0.0034	0.010	1	09/07/2017 18:32
Anthracene	ND	0.0029	0.010	1	09/07/2017 18:32
Benzo (a) anthracene	ND	0.0017	0.010	1	09/07/2017 18:32
Benzo (a) pyrene	ND	0.0027	0.010	1	09/07/2017 18:32
Benzo (b) fluoranthene	ND	0.0015	0.010	1	09/07/2017 18:32
Benzo (g,h,i) perylene	ND	0.0033	0.010	1	09/07/2017 18:32
Benzo (k) fluoranthene	ND	0.0016	0.010	1	09/07/2017 18:32
Chrysene	ND	0.0024	0.010	1	09/07/2017 18:32
Dibenzo (a,h) anthracene	ND	0.0050	0.010	1	09/07/2017 18:32
Fluoranthene	ND	0.0040	0.010	1	09/07/2017 18:32
Fluorene	ND	0.0060	0.010	1	09/07/2017 18:32
Indeno (1,2,3-cd) pyrene	ND	0.0049	0.010	1	09/07/2017 18:32
1-Methylnaphthalene	ND	0.0029	0.010	1	09/07/2017 18:32
2-Methylnaphthalene	ND	0.0020	0.010	1	09/07/2017 18:32
Naphthalene	ND	0.0016	0.010	1	09/07/2017 18:32
Phenanthrene	ND	0.0035	0.010	1	09/07/2017 18:32
Pyrene	ND	0.0045	0.010	1	09/07/2017 18:32
Surrogates	REC (%)	Limits			
1-Fluoronaphthalene	118	30-130			09/07/2017 18:32
2-Fluorobiphenyl	121	30-130			09/07/2017 18:32

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 7.5-8 feet	1709045-028A	Soil	08/30/2017 13:45	GC35 09071725.D	144931

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	0.010	1	09/07/2017 19:47
Acenaphthylene	ND	0.0034	0.010	1	09/07/2017 19:47
Anthracene	ND	0.0029	0.010	1	09/07/2017 19:47
Benzo (a) anthracene	ND	0.0017	0.010	1	09/07/2017 19:47
Benzo (a) pyrene	ND	0.0027	0.010	1	09/07/2017 19:47
Benzo (b) fluoranthene	ND	0.0015	0.010	1	09/07/2017 19:47
Benzo (g,h,i) perylene	ND	0.0033	0.010	1	09/07/2017 19:47
Benzo (k) fluoranthene	ND	0.0016	0.010	1	09/07/2017 19:47
Chrysene	ND	0.0024	0.010	1	09/07/2017 19:47
Dibenzo (a,h) anthracene	ND	0.0050	0.010	1	09/07/2017 19:47
Fluoranthene	ND	0.0040	0.010	1	09/07/2017 19:47
Fluorene	ND	0.0060	0.010	1	09/07/2017 19:47
Indeno (1,2,3-cd) pyrene	ND	0.0049	0.010	1	09/07/2017 19:47
1-Methylnaphthalene	ND	0.0029	0.010	1	09/07/2017 19:47
2-Methylnaphthalene	ND	0.0020	0.010	1	09/07/2017 19:47
Naphthalene	ND	0.0016	0.010	1	09/07/2017 19:47
Phenanthrene	ND	0.0035	0.010	1	09/07/2017 19:47
Pyrene	ND	0.0045	0.010	1	09/07/2017 19:47

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	107	30-130	09/07/2017 19:47
2-Fluorobiphenyl	103	30-130	09/07/2017 19:47

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4 feet	1709045-031A	Soil	08/30/2017 13:27	GC35 09071726.D	144931

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	0.010	1	09/07/2017 20:11
Acenaphthylene	ND	0.0034	0.010	1	09/07/2017 20:11
Anthracene	ND	0.0029	0.010	1	09/07/2017 20:11
Benzo (a) anthracene	ND	0.0017	0.010	1	09/07/2017 20:11
Benzo (a) pyrene	ND	0.0027	0.010	1	09/07/2017 20:11
Benzo (b) fluoranthene	ND	0.0015	0.010	1	09/07/2017 20:11
Benzo (g,h,i) perylene	ND	0.0033	0.010	1	09/07/2017 20:11
Benzo (k) fluoranthene	ND	0.0016	0.010	1	09/07/2017 20:11
Chrysene	ND	0.0024	0.010	1	09/07/2017 20:11
Dibenzo (a,h) anthracene	ND	0.0050	0.010	1	09/07/2017 20:11
Fluoranthene	ND	0.0040	0.010	1	09/07/2017 20:11
Fluorene	ND	0.0060	0.010	1	09/07/2017 20:11
Indeno (1,2,3-cd) pyrene	ND	0.0049	0.010	1	09/07/2017 20:11
1-Methylnaphthalene	ND	0.0029	0.010	1	09/07/2017 20:11
2-Methylnaphthalene	ND	0.0020	0.010	1	09/07/2017 20:11
Naphthalene	ND	0.0016	0.010	1	09/07/2017 20:11
Phenanthrene	ND	0.0035	0.010	1	09/07/2017 20:11
Pyrene	ND	0.0045	0.010	1	09/07/2017 20:11
Surrogates	REC (%)	Limits			
1-Fluoronaphthalene	112	30-130			09/07/2017 20:11
2-Fluorobiphenyl	105	30-130			09/07/2017 20:11

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 7.5-8 feet	1709045-032A	Soil	08/30/2017 13:32	GC35 09071727.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0026	0.010	1	09/07/2017 20:36
Acenaphthylene	ND		0.0034	0.010	1	09/07/2017 20:36
Anthracene	ND		0.0029	0.010	1	09/07/2017 20:36
Benzo (a) anthracene	0.0054	J	0.0017	0.010	1	09/07/2017 20:36
Benzo (a) pyrene	ND		0.0027	0.010	1	09/07/2017 20:36
Benzo (b) fluoranthene	0.0025	J	0.0015	0.010	1	09/07/2017 20:36
Benzo (g,h,i) perylene	ND		0.0033	0.010	1	09/07/2017 20:36
Benzo (k) fluoranthene	ND		0.0016	0.010	1	09/07/2017 20:36
Chrysene	0.0029	J	0.0024	0.010	1	09/07/2017 20:36
Dibenzo (a,h) anthracene	ND		0.0050	0.010	1	09/07/2017 20:36
Fluoranthene	ND		0.0040	0.010	1	09/07/2017 20:36
Fluorene	ND		0.0060	0.010	1	09/07/2017 20:36
Indeno (1,2,3-cd) pyrene	ND		0.0049	0.010	1	09/07/2017 20:36
1-Methylnaphthalene	ND		0.0029	0.010	1	09/07/2017 20:36
2-Methylnaphthalene	ND		0.0020	0.010	1	09/07/2017 20:36
Naphthalene	ND		0.0016	0.010	1	09/07/2017 20:36
Phenanthrene	ND		0.0035	0.010	1	09/07/2017 20:36
Pyrene	ND		0.0045	0.010	1	09/07/2017 20:36

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	116	30-130	09/07/2017 20:36
2-Fluorobiphenyl	120	30-130	09/07/2017 20:36

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4 feet	1709045-035A	Soil	08/30/2017 13:05	GC35 09071728.D	144931

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	0.010	1	09/07/2017 21:01
Acenaphthylene	ND	0.0034	0.010	1	09/07/2017 21:01
Anthracene	ND	0.0029	0.010	1	09/07/2017 21:01
Benzo (a) anthracene	ND	0.0017	0.010	1	09/07/2017 21:01
Benzo (a) pyrene	ND	0.0027	0.010	1	09/07/2017 21:01
Benzo (b) fluoranthene	ND	0.0015	0.010	1	09/07/2017 21:01
Benzo (g,h,i) perylene	ND	0.0033	0.010	1	09/07/2017 21:01
Benzo (k) fluoranthene	ND	0.0016	0.010	1	09/07/2017 21:01
Chrysene	ND	0.0024	0.010	1	09/07/2017 21:01
Dibenzo (a,h) anthracene	ND	0.0050	0.010	1	09/07/2017 21:01
Fluoranthene	ND	0.0040	0.010	1	09/07/2017 21:01
Fluorene	ND	0.0060	0.010	1	09/07/2017 21:01
Indeno (1,2,3-cd) pyrene	ND	0.0049	0.010	1	09/07/2017 21:01
1-Methylnaphthalene	ND	0.0029	0.010	1	09/07/2017 21:01
2-Methylnaphthalene	ND	0.0020	0.010	1	09/07/2017 21:01
Naphthalene	ND	0.0016	0.010	1	09/07/2017 21:01
Phenanthrene	ND	0.0035	0.010	1	09/07/2017 21:01
Pyrene	ND	0.0045	0.010	1	09/07/2017 21:01

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	111	30-130	09/07/2017 21:01
2-Fluorobiphenyl	111	30-130	09/07/2017 21:01

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7.5-8 feet	1709045-036A	Soil	08/30/2017 13:11	GC35 09071729.D	144931

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	0.010	1	09/07/2017 21:26
Acenaphthylene	ND	0.0034	0.010	1	09/07/2017 21:26
Anthracene	ND	0.0029	0.010	1	09/07/2017 21:26
Benzo (a) anthracene	ND	0.0017	0.010	1	09/07/2017 21:26
Benzo (a) pyrene	ND	0.0027	0.010	1	09/07/2017 21:26
Benzo (b) fluoranthene	ND	0.0015	0.010	1	09/07/2017 21:26
Benzo (g,h,i) perylene	ND	0.0033	0.010	1	09/07/2017 21:26
Benzo (k) fluoranthene	ND	0.0016	0.010	1	09/07/2017 21:26
Chrysene	ND	0.0024	0.010	1	09/07/2017 21:26
Dibenzo (a,h) anthracene	ND	0.0050	0.010	1	09/07/2017 21:26
Fluoranthene	ND	0.0040	0.010	1	09/07/2017 21:26
Fluorene	ND	0.0060	0.010	1	09/07/2017 21:26
Indeno (1,2,3-cd) pyrene	ND	0.0049	0.010	1	09/07/2017 21:26
1-Methylnaphthalene	ND	0.0029	0.010	1	09/07/2017 21:26
2-Methylnaphthalene	ND	0.0020	0.010	1	09/07/2017 21:26
Naphthalene	ND	0.0016	0.010	1	09/07/2017 21:26
Phenanthrene	ND	0.0035	0.010	1	09/07/2017 21:26
Pyrene	ND	0.0045	0.010	1	09/07/2017 21:26
Surrogates	REC (%)	Limits			
1-Fluoronaphthalene	109	30-130			09/07/2017 21:26
2-Fluorobiphenyl	110	30-130			09/07/2017 21:26

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4 feet	1709045-039A	Soil	08/31/2017 11:04	GC35 09071730.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.026	0.10	10	09/07/2017 21:51
Acenaphthylene	0.075	J	0.034	0.10	10	09/07/2017 21:51
Anthracene	ND		0.029	0.10	10	09/07/2017 21:51
Benzo (a) anthracene	0.23		0.017	0.10	10	09/07/2017 21:51
Benzo (a) pyrene	0.19		0.027	0.10	10	09/07/2017 21:51
Benzo (b) fluoranthene	0.19		0.015	0.10	10	09/07/2017 21:51
Benzo (g,h,i) perylene	0.18		0.033	0.10	10	09/07/2017 21:51
Benzo (k) fluoranthene	0.081	J	0.016	0.10	10	09/07/2017 21:51
Chrysene	0.24		0.024	0.10	10	09/07/2017 21:51
Dibenzo (a,h) anthracene	ND		0.050	0.10	10	09/07/2017 21:51
Fluoranthene	0.18		0.040	0.10	10	09/07/2017 21:51
Fluorene	ND		0.060	0.10	10	09/07/2017 21:51
Indeno (1,2,3-cd) pyrene	0.082	J	0.049	0.10	10	09/07/2017 21:51
1-Methylnaphthalene	ND		0.029	0.10	10	09/07/2017 21:51
2-Methylnaphthalene	ND		0.020	0.10	10	09/07/2017 21:51
Naphthalene	ND		0.016	0.10	10	09/07/2017 21:51
Phenanthrene	0.068	J	0.035	0.10	10	09/07/2017 21:51
Pyrene	0.37		0.045	0.10	10	09/07/2017 21:51
Surrogates	REC (%)			Limits		
1-Fluoronaphthalene	119			30-130		09/07/2017 21:51
2-Fluorobiphenyl	121			30-130		09/07/2017 21:51

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 7.5-8 feet	1709045-040A	Soil	08/31/2017 11:10	GC35 09071731.D	144931

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	0.010	1	09/07/2017 22:16
Acenaphthylene	ND	0.0034	0.010	1	09/07/2017 22:16
Anthracene	ND	0.0029	0.010	1	09/07/2017 22:16
Benzo (a) anthracene	ND	0.0017	0.010	1	09/07/2017 22:16
Benzo (a) pyrene	ND	0.0027	0.010	1	09/07/2017 22:16
Benzo (b) fluoranthene	ND	0.0015	0.010	1	09/07/2017 22:16
Benzo (g,h,i) perylene	ND	0.0033	0.010	1	09/07/2017 22:16
Benzo (k) fluoranthene	ND	0.0016	0.010	1	09/07/2017 22:16
Chrysene	ND	0.0024	0.010	1	09/07/2017 22:16
Dibenzo (a,h) anthracene	ND	0.0050	0.010	1	09/07/2017 22:16
Fluoranthene	ND	0.0040	0.010	1	09/07/2017 22:16
Fluorene	ND	0.0060	0.010	1	09/07/2017 22:16
Indeno (1,2,3-cd) pyrene	ND	0.0049	0.010	1	09/07/2017 22:16
1-Methylnaphthalene	ND	0.0029	0.010	1	09/07/2017 22:16
2-Methylnaphthalene	ND	0.0020	0.010	1	09/07/2017 22:16
Naphthalene	ND	0.0016	0.010	1	09/07/2017 22:16
Phenanthrene	ND	0.0035	0.010	1	09/07/2017 22:16
Pyrene	ND	0.0045	0.010	1	09/07/2017 22:16
Surrogates	REC (%)	Limits			
1-Fluoronaphthalene	110	30-130			09/07/2017 22:16
2-Fluorobiphenyl	109	30-130			09/07/2017 22:16

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 3.5-4 feet	1709045-043A	Soil	08/31/2017 13:55	GC35 09071732.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.026	0.10	10	09/07/2017 22:41
Acenaphthylene	ND		0.034	0.10	10	09/07/2017 22:41
Anthracene	ND		0.029	0.10	10	09/07/2017 22:41
Benzo (a) anthracene	0.10		0.017	0.10	10	09/07/2017 22:41
Benzo (a) pyrene	0.051	J	0.027	0.10	10	09/07/2017 22:41
Benzo (b) fluoranthene	0.072	J	0.015	0.10	10	09/07/2017 22:41
Benzo (g,h,i) perylene	0.069	J	0.033	0.10	10	09/07/2017 22:41
Benzo (k) fluoranthene	0.033	J	0.016	0.10	10	09/07/2017 22:41
Chrysene	0.11		0.024	0.10	10	09/07/2017 22:41
Dibenzo (a,h) anthracene	ND		0.050	0.10	10	09/07/2017 22:41
Fluoranthene	0.095	J	0.040	0.10	10	09/07/2017 22:41
Fluorene	ND		0.060	0.10	10	09/07/2017 22:41
Indeno (1,2,3-cd) pyrene	ND		0.049	0.10	10	09/07/2017 22:41
1-Methylnaphthalene	ND		0.029	0.10	10	09/07/2017 22:41
2-Methylnaphthalene	ND		0.020	0.10	10	09/07/2017 22:41
Naphthalene	ND		0.016	0.10	10	09/07/2017 22:41
Phenanthrene	0.092	J	0.035	0.10	10	09/07/2017 22:41
Pyrene	0.14		0.045	0.10	10	09/07/2017 22:41

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	117	30-130	09/07/2017 22:41
2-Fluorobiphenyl	117	30-130	09/07/2017 22:41

Analyst(s): HD



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/6/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 7.5-8 feet	1709045-044A	Soil	08/31/2017 14:02	GC35 09071733.D	144931

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0052	0.020	2	09/07/2017 23:06
Acenaphthylene	ND		0.0068	0.020	2	09/07/2017 23:06
Anthracene	ND		0.0058	0.020	2	09/07/2017 23:06
Benzo (a) anthracene	0.015	J	0.0034	0.020	2	09/07/2017 23:06
Benzo (a) pyrene	0.0075	J	0.0054	0.020	2	09/07/2017 23:06
Benzo (b) fluoranthene	0.0096	J	0.0030	0.020	2	09/07/2017 23:06
Benzo (g,h,i) perylene	0.018	J	0.0066	0.020	2	09/07/2017 23:06
Benzo (k) fluoranthene	0.0041	J	0.0032	0.020	2	09/07/2017 23:06
Chrysene	0.0049	J	0.0048	0.020	2	09/07/2017 23:06
Dibenzo (a,h) anthracene	ND		0.010	0.020	2	09/07/2017 23:06
Fluoranthene	ND		0.0080	0.020	2	09/07/2017 23:06
Fluorene	ND		0.012	0.020	2	09/07/2017 23:06
Indeno (1,2,3-cd) pyrene	ND		0.0098	0.020	2	09/07/2017 23:06
1-Methylnaphthalene	ND		0.0058	0.020	2	09/07/2017 23:06
2-Methylnaphthalene	ND		0.0040	0.020	2	09/07/2017 23:06
Naphthalene	ND		0.0032	0.020	2	09/07/2017 23:06
Phenanthrene	ND		0.0070	0.020	2	09/07/2017 23:06
Pyrene	ND		0.0090	0.020	2	09/07/2017 23:06

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	115	30-130	09/07/2017 23:06
2-Fluorobiphenyl	112	30-130	09/07/2017 23:06

Analyst(s): HD

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3510C
Analytical Method: SW8270C-SIM
Unit: µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8	1709045-005B	Water	08/30/2017 10:53	GC35 09061710.D	144896

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.52	1.0	2	09/06/2017 13:57
Acenaphthylene	ND		0.46	1.0	2	09/06/2017 13:57
Anthracene	ND		0.48	1.0	2	09/06/2017 13:57
Benzo (a) anthracene	0.97	J	0.46	1.0	2	09/06/2017 13:57
Benzo (a) pyrene	ND		0.40	1.0	2	09/06/2017 13:57
Benzo (b) fluoranthene	0.56	J	0.38	1.0	2	09/06/2017 13:57
Benzo (g,h,i) perylene	0.49	J	0.48	1.0	2	09/06/2017 13:57
Benzo (k) fluoranthene	ND		0.42	1.0	2	09/06/2017 13:57
Chrysene	0.69	J	0.52	1.0	2	09/06/2017 13:57
Dibenzo (a,h) anthracene	ND		0.34	1.0	2	09/06/2017 13:57
Fluoranthene	0.91	J	0.46	1.0	2	09/06/2017 13:57
Fluorene	ND		0.50	1.0	2	09/06/2017 13:57
Indeno (1,2,3-cd) pyrene	ND		0.36	1.0	2	09/06/2017 13:57
1-Methylnaphthalene	ND		0.52	1.0	2	09/06/2017 13:57
2-Methylnaphthalene	ND		0.52	1.0	2	09/06/2017 13:57
Naphthalene	ND		0.52	1.0	2	09/06/2017 13:57
Phenanthrene	0.92	J	0.54	1.0	2	09/06/2017 13:57
Pyrene	1.3		0.44	1.0	2	09/06/2017 13:57

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	88	30-130	09/06/2017 13:57
2-Fluorobiphenyl	74	30-130	09/06/2017 13:57

Analyst(s): REB

Analytical Comments: b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3510C
Analytical Method: SW8270C-SIM
Unit: µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9	1709045-010B	Water	08/30/2017 10:15	GC35 09071720.D	144896

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.26	0.50	1	09/07/2017 17:42
Acenaphthylene	ND		0.23	0.50	1	09/07/2017 17:42
Anthracene	ND		0.24	0.50	1	09/07/2017 17:42
Benzo (a) anthracene	0.49	J	0.23	0.50	1	09/07/2017 17:42
Benzo (a) pyrene	0.22	J	0.20	0.50	1	09/07/2017 17:42
Benzo (b) fluoranthene	0.33	J	0.19	0.50	1	09/07/2017 17:42
Benzo (g,h,i) perylene	0.24	J	0.24	0.50	1	09/07/2017 17:42
Benzo (k) fluoranthene	ND		0.21	0.50	1	09/07/2017 17:42
Chrysene	0.32	J	0.26	0.50	1	09/07/2017 17:42
Dibenzo (a,h) anthracene	ND		0.17	0.50	1	09/07/2017 17:42
Fluoranthene	0.39	J	0.23	0.50	1	09/07/2017 17:42
Fluorene	ND		0.25	0.50	1	09/07/2017 17:42
Indeno (1,2,3-cd) pyrene	ND		0.18	0.50	1	09/07/2017 17:42
1-Methylnaphthalene	ND		0.26	0.50	1	09/07/2017 17:42
2-Methylnaphthalene	ND		0.26	0.50	1	09/07/2017 17:42
Naphthalene	ND		0.26	0.50	1	09/07/2017 17:42
Phenanthrene	0.30	J	0.27	0.50	1	09/07/2017 17:42
Pyrene	0.59		0.22	0.50	1	09/07/2017 17:42

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	95	30-130	09/07/2017 17:42
2-Fluorobiphenyl	80	30-130	09/07/2017 17:42

Analyst(s): HD

Analytical Comments: b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3510C
Analytical Method: SW8270C-SIM
Unit: µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1709045-020B	Water	08/30/2017 11:31	GC35 09061721.D	144896

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.26	0.50	1	09/06/2017 19:05
Acenaphthylene	ND		0.23	0.50	1	09/06/2017 19:05
Anthracene	ND		0.24	0.50	1	09/06/2017 19:05
Benzo (a) anthracene	0.30	J	0.23	0.50	1	09/06/2017 19:05
Benzo (a) pyrene	ND		0.20	0.50	1	09/06/2017 19:05
Benzo (b) fluoranthene	ND		0.19	0.50	1	09/06/2017 19:05
Benzo (g,h,i) perylene	ND		0.24	0.50	1	09/06/2017 19:05
Benzo (k) fluoranthene	ND		0.21	0.50	1	09/06/2017 19:05
Chrysene	ND		0.26	0.50	1	09/06/2017 19:05
Dibenzo (a,h) anthracene	ND		0.17	0.50	1	09/06/2017 19:05
Fluoranthene	ND		0.23	0.50	1	09/06/2017 19:05
Fluorene	ND		0.25	0.50	1	09/06/2017 19:05
Indeno (1,2,3-cd) pyrene	ND		0.18	0.50	1	09/06/2017 19:05
1-Methylnaphthalene	ND		0.26	0.50	1	09/06/2017 19:05
2-Methylnaphthalene	ND		0.26	0.50	1	09/06/2017 19:05
Naphthalene	ND		0.26	0.50	1	09/06/2017 19:05
Phenanthrene	ND		0.27	0.50	1	09/06/2017 19:05
Pyrene	ND		0.22	0.50	1	09/06/2017 19:05

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	92	30-130	09/06/2017 19:05
2-Fluorobiphenyl	80	30-130	09/06/2017 19:05

Analyst(s): REB

Analytical Comments: b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 3.5-4 feet	1709045-003A	Soil	08/30/2017 10:43	GC17 09051739.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		11	20	10	09/06/2017 03:39
Acenaphthylene	ND		11	20	10	09/06/2017 03:39
Acetochlor	ND		20	20	10	09/06/2017 03:39
Anthracene	ND		11	20	10	09/06/2017 03:39
Benzidine	ND		18	100	10	09/06/2017 03:39
Benzo (a) anthracene	ND		11	20	10	09/06/2017 03:39
Benzo (a) pyrene	ND		11	20	10	09/06/2017 03:39
Benzo (b) fluoranthene	ND		11	20	10	09/06/2017 03:39
Benzo (g,h,i) perylene	ND		12	20	10	09/06/2017 03:39
Benzo (k) fluoranthene	ND		13	20	10	09/06/2017 03:39
Benzyl Alcohol	ND		41	100	10	09/06/2017 03:39
1,1-Biphenyl	ND		12	20	10	09/06/2017 03:39
Bis (2-chloroethoxy) Methane	ND		11	20	10	09/06/2017 03:39
Bis (2-chloroethyl) Ether	ND		10	20	10	09/06/2017 03:39
Bis (2-chloroisopropyl) Ether	ND		9.6	20	10	09/06/2017 03:39
Bis (2-ethylhexyl) Adipate	ND		20	20	10	09/06/2017 03:39
Bis (2-ethylhexyl) Phthalate	ND		10	20	10	09/06/2017 03:39
4-Bromophenyl Phenyl Ether	ND		13	20	10	09/06/2017 03:39
Butylbenzyl Phthalate	ND		10	20	10	09/06/2017 03:39
4-Chloroaniline	ND		10	40	10	09/06/2017 03:39
4-Chloro-3-methylphenol	ND		9.6	20	10	09/06/2017 03:39
2-Chloronaphthalene	ND		13	20	10	09/06/2017 03:39
2-Chlorophenol	ND		11	20	10	09/06/2017 03:39
4-Chlorophenyl Phenyl Ether	ND		12	20	10	09/06/2017 03:39
Chrysene	ND		11	20	10	09/06/2017 03:39
Dibenzo (a,h) anthracene	ND		13	20	10	09/06/2017 03:39
Dibenzofuran	ND		10	20	10	09/06/2017 03:39
Di-n-butyl Phthalate	ND		10	20	10	09/06/2017 03:39
1,2-Dichlorobenzene	ND		9.6	20	10	09/06/2017 03:39
1,3-Dichlorobenzene	ND		11	20	10	09/06/2017 03:39
1,4-Dichlorobenzene	ND		10	20	10	09/06/2017 03:39
3,3-Dichlorobenzidine	ND		9.6	40	10	09/06/2017 03:39
2,4-Dichlorophenol	ND		10	20	10	09/06/2017 03:39
Diethyl Phthalate	ND		11	20	10	09/06/2017 03:39
2,4-Dimethylphenol	ND		10	20	10	09/06/2017 03:39
Dimethyl Phthalate	ND		11	20	10	09/06/2017 03:39
4,6-Dinitro-2-methylphenol	59	J	10	100	10	09/06/2017 03:39

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 3.5-4 feet	1709045-003A	Soil	08/30/2017 10:43	GC17 09051739.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		100	500	10	09/06/2017 03:39
2,4-Dinitrotoluene	ND		10	20	10	09/06/2017 03:39
2,6-Dinitrotoluene	ND		11	20	10	09/06/2017 03:39
Di-n-octyl Phthalate	ND		11	40	10	09/06/2017 03:39
1,2-Diphenylhydrazine	ND		13	20	10	09/06/2017 03:39
Fluoranthene	ND		10	20	10	09/06/2017 03:39
Fluorene	ND		11	20	10	09/06/2017 03:39
Hexachlorobenzene	ND		14	20	10	09/06/2017 03:39
Hexachlorobutadiene	ND		12	20	10	09/06/2017 03:39
Hexachlorocyclopentadiene	ND		58	100	10	09/06/2017 03:39
Hexachloroethane	ND		11	20	10	09/06/2017 03:39
Indeno (1,2,3-cd) pyrene	ND		11	20	10	09/06/2017 03:39
Isophorone	ND		9.6	20	10	09/06/2017 03:39
2-Methylnaphthalene	ND		11	20	10	09/06/2017 03:39
2-Methylphenol (o-Cresol)	ND		11	20	10	09/06/2017 03:39
3 & 4-Methylphenol (m,p-Cresol)	ND		9.6	20	10	09/06/2017 03:39
Naphthalene	ND		10	20	10	09/06/2017 03:39
2-Nitroaniline	ND		50	100	10	09/06/2017 03:39
3-Nitroaniline	ND		47	100	10	09/06/2017 03:39
4-Nitroaniline	ND		44	100	10	09/06/2017 03:39
Nitrobenzene	ND		11	20	10	09/06/2017 03:39
2-Nitrophenol	ND		51	100	10	09/06/2017 03:39
4-Nitrophenol	ND		33	100	10	09/06/2017 03:39
N-Nitrosodiphenylamine	ND		13	20	10	09/06/2017 03:39
N-Nitrosodi-n-propylamine	ND		10	20	10	09/06/2017 03:39
Pentachlorophenol	ND		26	100	10	09/06/2017 03:39
Phenanthrene	ND		11	20	10	09/06/2017 03:39
Phenol	ND		9.6	20	10	09/06/2017 03:39
Pyrene	ND		10	20	10	09/06/2017 03:39
Pyridine	ND		20	20	10	09/06/2017 03:39
1,2,4-Trichlorobenzene	ND		11	20	10	09/06/2017 03:39
2,4,5-Trichlorophenol	ND		9.6	20	10	09/06/2017 03:39
2,4,6-Trichlorophenol	ND		11	20	10	09/06/2017 03:39

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 3.5-4 feet	1709045-003A	Soil	08/30/2017 10:43	GC17 09051739.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	50			30-130		09/06/2017 03:39
Phenol-d5	32			30-130		09/06/2017 03:39
Nitrobenzene-d5	53			30-130		09/06/2017 03:39
2-Fluorobiphenyl	94			30-130		09/06/2017 03:39
2,4,6-Tribromophenol	58			16-130		09/06/2017 03:39
4-Terphenyl-d14	99			30-130		09/06/2017 03:39

Analyst(s): REB

Analytical Comments: a3,a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 7.5-8 feet	1709045-004A	Soil	08/30/2017 10:45	GC17 09051741.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		11	20	10	09/06/2017 04:35
Acenaphthylene	ND		11	20	10	09/06/2017 04:35
Acetochlor	ND		20	20	10	09/06/2017 04:35
Anthracene	ND		11	20	10	09/06/2017 04:35
Benzidine	ND		18	100	10	09/06/2017 04:35
Benzo (a) anthracene	ND		11	20	10	09/06/2017 04:35
Benzo (a) pyrene	ND		11	20	10	09/06/2017 04:35
Benzo (b) fluoranthene	ND		11	20	10	09/06/2017 04:35
Benzo (g,h,i) perylene	ND		12	20	10	09/06/2017 04:35
Benzo (k) fluoranthene	ND		13	20	10	09/06/2017 04:35
Benzyl Alcohol	ND		41	100	10	09/06/2017 04:35
1,1-Biphenyl	ND		12	20	10	09/06/2017 04:35
Bis (2-chloroethoxy) Methane	ND		11	20	10	09/06/2017 04:35
Bis (2-chloroethyl) Ether	ND		10	20	10	09/06/2017 04:35
Bis (2-chloroisopropyl) Ether	ND		9.6	20	10	09/06/2017 04:35
Bis (2-ethylhexyl) Adipate	ND		20	20	10	09/06/2017 04:35
Bis (2-ethylhexyl) Phthalate	ND		10	20	10	09/06/2017 04:35
4-Bromophenyl Phenyl Ether	ND		13	20	10	09/06/2017 04:35
Butylbenzyl Phthalate	ND		10	20	10	09/06/2017 04:35
4-Chloroaniline	ND		10	40	10	09/06/2017 04:35
4-Chloro-3-methylphenol	ND		9.6	20	10	09/06/2017 04:35
2-Chloronaphthalene	ND		13	20	10	09/06/2017 04:35
2-Chlorophenol	ND		11	20	10	09/06/2017 04:35
4-Chlorophenyl Phenyl Ether	ND		12	20	10	09/06/2017 04:35
Chrysene	ND		11	20	10	09/06/2017 04:35
Dibenzo (a,h) anthracene	ND		13	20	10	09/06/2017 04:35
Dibenzofuran	ND		10	20	10	09/06/2017 04:35
Di-n-butyl Phthalate	ND		10	20	10	09/06/2017 04:35
1,2-Dichlorobenzene	ND		9.6	20	10	09/06/2017 04:35
1,3-Dichlorobenzene	ND		11	20	10	09/06/2017 04:35
1,4-Dichlorobenzene	ND		10	20	10	09/06/2017 04:35
3,3-Dichlorobenzidine	ND		9.6	40	10	09/06/2017 04:35
2,4-Dichlorophenol	ND		10	20	10	09/06/2017 04:35
Diethyl Phthalate	ND		11	20	10	09/06/2017 04:35
2,4-Dimethylphenol	ND		10	20	10	09/06/2017 04:35
Dimethyl Phthalate	ND		11	20	10	09/06/2017 04:35
4,6-Dinitro-2-methylphenol	59	J	10	100	10	09/06/2017 04:35

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 7.5-8 feet	1709045-004A	Soil	08/30/2017 10:45	GC17 09051741.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		100	500	10	09/06/2017 04:35
2,4-Dinitrotoluene	ND		10	20	10	09/06/2017 04:35
2,6-Dinitrotoluene	ND		11	20	10	09/06/2017 04:35
Di-n-octyl Phthalate	ND		11	40	10	09/06/2017 04:35
1,2-Diphenylhydrazine	ND		13	20	10	09/06/2017 04:35
Fluoranthene	ND		10	20	10	09/06/2017 04:35
Fluorene	ND		11	20	10	09/06/2017 04:35
Hexachlorobenzene	ND		14	20	10	09/06/2017 04:35
Hexachlorobutadiene	ND		12	20	10	09/06/2017 04:35
Hexachlorocyclopentadiene	ND		58	100	10	09/06/2017 04:35
Hexachloroethane	ND		11	20	10	09/06/2017 04:35
Indeno (1,2,3-cd) pyrene	ND		11	20	10	09/06/2017 04:35
Isophorone	ND		9.6	20	10	09/06/2017 04:35
2-Methylnaphthalene	ND		11	20	10	09/06/2017 04:35
2-Methylphenol (o-Cresol)	ND		11	20	10	09/06/2017 04:35
3 & 4-Methylphenol (m,p-Cresol)	ND		9.6	20	10	09/06/2017 04:35
Naphthalene	ND		10	20	10	09/06/2017 04:35
2-Nitroaniline	ND		50	100	10	09/06/2017 04:35
3-Nitroaniline	ND		47	100	10	09/06/2017 04:35
4-Nitroaniline	ND		44	100	10	09/06/2017 04:35
Nitrobenzene	ND		11	20	10	09/06/2017 04:35
2-Nitrophenol	ND		51	100	10	09/06/2017 04:35
4-Nitrophenol	ND		33	100	10	09/06/2017 04:35
N-Nitrosodiphenylamine	ND		13	20	10	09/06/2017 04:35
N-Nitrosodi-n-propylamine	ND		10	20	10	09/06/2017 04:35
Pentachlorophenol	ND		26	100	10	09/06/2017 04:35
Phenanthrene	ND		11	20	10	09/06/2017 04:35
Phenol	ND		9.6	20	10	09/06/2017 04:35
Pyrene	ND		10	20	10	09/06/2017 04:35
Pyridine	ND		20	20	10	09/06/2017 04:35
1,2,4-Trichlorobenzene	ND		11	20	10	09/06/2017 04:35
2,4,5-Trichlorophenol	ND		9.6	20	10	09/06/2017 04:35
2,4,6-Trichlorophenol	ND		11	20	10	09/06/2017 04:35

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 7.5-8 feet	1709045-004A	Soil	08/30/2017 10:45	GC17 09051741.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
2-Fluorophenol	51			30-130		09/06/2017 04:35
Phenol-d5	28	S		30-130		09/06/2017 04:35
Nitrobenzene-d5	66			30-130		09/06/2017 04:35
2-Fluorobiphenyl	81			30-130		09/06/2017 04:35
2,4,6-Tribromophenol	53			16-130		09/06/2017 04:35
4-Terphenyl-d14	104			30-130		09/06/2017 04:35

Analyst(s): REB

Analytical Comments: a3,a4,c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 3.5-4 feet	1709045-008A	Soil	08/30/2017 09:58	GC17 09061709.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 13:18
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 13:18
Acetochlor	ND		0.25	0.25	1	09/06/2017 13:18
Anthracene	ND		0.14	0.25	1	09/06/2017 13:18
Benzidine	ND		0.23	1.3	1	09/06/2017 13:18
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 13:18
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 13:18
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 13:18
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 13:18
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 13:18
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 13:18
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 13:18
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 13:18
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 13:18
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 13:18
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 13:18
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 13:18
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 13:18
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 13:18
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 13:18
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 13:18
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 13:18
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 13:18
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 13:18
Chrysene	ND		0.14	0.25	1	09/06/2017 13:18
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 13:18
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 13:18
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 13:18
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 13:18
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 13:18
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 13:18
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 13:18
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 13:18
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 13:18
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 13:18
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 13:18
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 13:18

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 3.5-4 feet	1709045-008A	Soil	08/30/2017 09:58	GC17 09061709.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 13:18
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 13:18
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 13:18
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 13:18
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 13:18
Fluoranthene	ND		0.13	0.25	1	09/06/2017 13:18
Fluorene	ND		0.14	0.25	1	09/06/2017 13:18
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 13:18
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 13:18
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 13:18
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 13:18
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 13:18
Isophorone	ND		0.12	0.25	1	09/06/2017 13:18
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 13:18
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 13:18
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 13:18
Naphthalene	ND		0.13	0.25	1	09/06/2017 13:18
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 13:18
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 13:18
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 13:18
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 13:18
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 13:18
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 13:18
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 13:18
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 13:18
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 13:18
Phenanthrene	ND		0.14	0.25	1	09/06/2017 13:18
Phenol	ND		0.12	0.25	1	09/06/2017 13:18
Pyrene	ND		0.13	0.25	1	09/06/2017 13:18
Pyridine	ND		0.25	0.25	1	09/06/2017 13:18
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 13:18
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 13:18
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 13:18

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 3.5-4 feet	1709045-008A	Soil	08/30/2017 09:58	GC17 09061709.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	92			30-130		09/06/2017 13:18
Phenol-d5	86			30-130		09/06/2017 13:18
Nitrobenzene-d5	94			30-130		09/06/2017 13:18
2-Fluorobiphenyl	80			30-130		09/06/2017 13:18
2,4,6-Tribromophenol	50			16-130		09/06/2017 13:18
4-Terphenyl-d14	98			30-130		09/06/2017 13:18

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 7.5-8 feet	1709045-009A	Soil	08/30/2017 10:02	GC17 09061710.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 13:46
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 13:46
Acetochlor	ND		0.25	0.25	1	09/06/2017 13:46
Anthracene	ND		0.14	0.25	1	09/06/2017 13:46
Benzidine	ND		0.23	1.3	1	09/06/2017 13:46
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 13:46
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 13:46
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 13:46
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 13:46
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 13:46
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 13:46
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 13:46
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 13:46
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 13:46
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 13:46
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 13:46
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 13:46
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 13:46
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 13:46
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 13:46
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 13:46
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 13:46
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 13:46
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 13:46
Chrysene	ND		0.14	0.25	1	09/06/2017 13:46
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 13:46
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 13:46
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 13:46
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 13:46
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 13:46
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 13:46
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 13:46
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 13:46
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 13:46
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 13:46
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 13:46
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 13:46

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 7.5-8 feet	1709045-009A	Soil	08/30/2017 10:02	GC17 09061710.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 13:46
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 13:46
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 13:46
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 13:46
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 13:46
Fluoranthene	ND		0.13	0.25	1	09/06/2017 13:46
Fluorene	ND		0.14	0.25	1	09/06/2017 13:46
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 13:46
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 13:46
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 13:46
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 13:46
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 13:46
Isophorone	ND		0.12	0.25	1	09/06/2017 13:46
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 13:46
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 13:46
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 13:46
Naphthalene	ND		0.13	0.25	1	09/06/2017 13:46
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 13:46
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 13:46
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 13:46
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 13:46
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 13:46
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 13:46
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 13:46
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 13:46
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 13:46
Phenanthrene	ND		0.14	0.25	1	09/06/2017 13:46
Phenol	ND		0.12	0.25	1	09/06/2017 13:46
Pyrene	ND		0.13	0.25	1	09/06/2017 13:46
Pyridine	ND		0.25	0.25	1	09/06/2017 13:46
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 13:46
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 13:46
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 13:46

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 7.5-8 feet	1709045-009A	Soil	08/30/2017 10:02	GC17 09061710.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	118			30-130		09/06/2017 13:46
Phenol-d5	113			30-130		09/06/2017 13:46
Nitrobenzene-d5	118			30-130		09/06/2017 13:46
2-Fluorobiphenyl	98			30-130		09/06/2017 13:46
2,4,6-Tribromophenol	66			16-130		09/06/2017 13:46
4-Terphenyl-d14	127			30-130		09/06/2017 13:46

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-8 feet	1709045-014A	Soil	08/30/2017 12:10	GC17 09061711.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		5.6	10	5	09/06/2017 14:15
Acenaphthylene	ND		5.6	10	5	09/06/2017 14:15
Acetochlor	ND		10	10	5	09/06/2017 14:15
Anthracene	ND		5.6	10	5	09/06/2017 14:15
Benzidine	ND		9.2	52	5	09/06/2017 14:15
Benzo (a) anthracene	ND		5.6	10	5	09/06/2017 14:15
Benzo (a) pyrene	ND		5.6	10	5	09/06/2017 14:15
Benzo (b) fluoranthene	ND		5.6	10	5	09/06/2017 14:15
Benzo (g,h,i) perylene	ND		6.0	10	5	09/06/2017 14:15
Benzo (k) fluoranthene	ND		6.4	10	5	09/06/2017 14:15
Benzyl Alcohol	ND		20	52	5	09/06/2017 14:15
1,1-Biphenyl	ND		6.0	10	5	09/06/2017 14:15
Bis (2-chloroethoxy) Methane	ND		5.6	10	5	09/06/2017 14:15
Bis (2-chloroethyl) Ether	ND		5.2	10	5	09/06/2017 14:15
Bis (2-chloroisopropyl) Ether	ND		4.8	10	5	09/06/2017 14:15
Bis (2-ethylhexyl) Adipate	ND		10	10	5	09/06/2017 14:15
Bis (2-ethylhexyl) Phthalate	ND		5.2	10	5	09/06/2017 14:15
4-Bromophenyl Phenyl Ether	ND		6.4	10	5	09/06/2017 14:15
Butylbenzyl Phthalate	ND		5.2	10	5	09/06/2017 14:15
4-Chloroaniline	ND		5.2	20	5	09/06/2017 14:15
4-Chloro-3-methylphenol	ND		4.8	10	5	09/06/2017 14:15
2-Chloronaphthalene	ND		6.4	10	5	09/06/2017 14:15
2-Chlorophenol	ND		5.6	10	5	09/06/2017 14:15
4-Chlorophenyl Phenyl Ether	ND		6.0	10	5	09/06/2017 14:15
Chrysene	ND		5.6	10	5	09/06/2017 14:15
Dibenzo (a,h) anthracene	ND		6.4	10	5	09/06/2017 14:15
Dibenzofuran	ND		5.2	10	5	09/06/2017 14:15
Di-n-butyl Phthalate	ND		5.2	10	5	09/06/2017 14:15
1,2-Dichlorobenzene	ND		4.8	10	5	09/06/2017 14:15
1,3-Dichlorobenzene	ND		5.6	10	5	09/06/2017 14:15
1,4-Dichlorobenzene	ND		5.2	10	5	09/06/2017 14:15
3,3-Dichlorobenzidine	ND		4.8	20	5	09/06/2017 14:15
2,4-Dichlorophenol	ND		5.2	10	5	09/06/2017 14:15
Diethyl Phthalate	ND		5.6	10	5	09/06/2017 14:15
2,4-Dimethylphenol	ND		5.2	10	5	09/06/2017 14:15
Dimethyl Phthalate	ND		5.6	10	5	09/06/2017 14:15
4,6-Dinitro-2-methylphenol	29	J	5.2	52	5	09/06/2017 14:15

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-8 feet	1709045-014A	Soil	08/30/2017 12:10	GC17 09061711.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		52	250	5	09/06/2017 14:15
2,4-Dinitrotoluene	ND		5.2	10	5	09/06/2017 14:15
2,6-Dinitrotoluene	ND		5.6	10	5	09/06/2017 14:15
Di-n-octyl Phthalate	ND		5.6	20	5	09/06/2017 14:15
1,2-Diphenylhydrazine	ND		6.4	10	5	09/06/2017 14:15
Fluoranthene	ND		5.2	10	5	09/06/2017 14:15
Fluorene	ND		5.6	10	5	09/06/2017 14:15
Hexachlorobenzene	ND		6.8	10	5	09/06/2017 14:15
Hexachlorobutadiene	ND		6.0	10	5	09/06/2017 14:15
Hexachlorocyclopentadiene	ND		29	52	5	09/06/2017 14:15
Hexachloroethane	ND		5.6	10	5	09/06/2017 14:15
Indeno (1,2,3-cd) pyrene	ND		5.6	10	5	09/06/2017 14:15
Isophorone	ND		4.8	10	5	09/06/2017 14:15
2-Methylnaphthalene	ND		5.6	10	5	09/06/2017 14:15
2-Methylphenol (o-Cresol)	ND		5.6	10	5	09/06/2017 14:15
3 & 4-Methylphenol (m,p-Cresol)	ND		4.8	10	5	09/06/2017 14:15
Naphthalene	ND		5.2	10	5	09/06/2017 14:15
2-Nitroaniline	ND		25	52	5	09/06/2017 14:15
3-Nitroaniline	ND		24	52	5	09/06/2017 14:15
4-Nitroaniline	ND		22	52	5	09/06/2017 14:15
Nitrobenzene	ND		5.6	10	5	09/06/2017 14:15
2-Nitrophenol	ND		26	52	5	09/06/2017 14:15
4-Nitrophenol	ND		16	52	5	09/06/2017 14:15
N-Nitrosodiphenylamine	ND		6.4	10	5	09/06/2017 14:15
N-Nitrosodi-n-propylamine	ND		5.2	10	5	09/06/2017 14:15
Pentachlorophenol	ND		13	52	5	09/06/2017 14:15
Phenanthrene	ND		5.6	10	5	09/06/2017 14:15
Phenol	ND		4.8	10	5	09/06/2017 14:15
Pyrene	ND		5.2	10	5	09/06/2017 14:15
Pyridine	ND		10	10	5	09/06/2017 14:15
1,2,4-Trichlorobenzene	ND		5.6	10	5	09/06/2017 14:15
2,4,5-Trichlorophenol	ND		4.8	10	5	09/06/2017 14:15
2,4,6-Trichlorophenol	ND		5.6	10	5	09/06/2017 14:15

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-8 feet	1709045-014A	Soil	08/30/2017 12:10	GC17 09061711.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
2-Fluorophenol	62			30-130		09/06/2017 14:15
Phenol-d5	25	S		30-130		09/06/2017 14:15
Nitrobenzene-d5	58			30-130		09/06/2017 14:15
2-Fluorobiphenyl	87			30-130		09/06/2017 14:15
2,4,6-Tribromophenol	58			16-130		09/06/2017 14:15
4-Terphenyl-d14	105			30-130		09/06/2017 14:15

Analyst(s): REB

Analytical Comments: a3,a4,c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-10, 7.5-8 feet	1709045-015A	Soil	08/30/2017 12:13	GC17 09061712.D	144860	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		1.1	2.0	1	09/06/2017 14:43
Acenaphthylene	ND		1.1	2.0	1	09/06/2017 14:43
Acetochlor	ND		2.0	2.0	1	09/06/2017 14:43
Anthracene	ND		1.1	2.0	1	09/06/2017 14:43
Benzidine	ND		1.8	10	1	09/06/2017 14:43
Benzo (a) anthracene	ND		1.1	2.0	1	09/06/2017 14:43
Benzo (a) pyrene	ND		1.1	2.0	1	09/06/2017 14:43
Benzo (b) fluoranthene	ND		1.1	2.0	1	09/06/2017 14:43
Benzo (g,h,i) perylene	ND		1.2	2.0	1	09/06/2017 14:43
Benzo (k) fluoranthene	ND		1.3	2.0	1	09/06/2017 14:43
Benzyl Alcohol	ND		4.1	10	1	09/06/2017 14:43
1,1-Biphenyl	ND		1.2	2.0	1	09/06/2017 14:43
Bis (2-chloroethoxy) Methane	ND		1.1	2.0	1	09/06/2017 14:43
Bis (2-chloroethyl) Ether	ND		1.0	2.0	1	09/06/2017 14:43
Bis (2-chloroisopropyl) Ether	ND		0.96	2.0	1	09/06/2017 14:43
Bis (2-ethylhexyl) Adipate	ND		2.0	2.0	1	09/06/2017 14:43
Bis (2-ethylhexyl) Phthalate	ND		1.0	2.0	1	09/06/2017 14:43
4-Bromophenyl Phenyl Ether	ND		1.3	2.0	1	09/06/2017 14:43
Butylbenzyl Phthalate	ND		1.0	2.0	1	09/06/2017 14:43
4-Chloroaniline	ND		1.0	4.0	1	09/06/2017 14:43
4-Chloro-3-methylphenol	ND		0.96	2.0	1	09/06/2017 14:43
2-Chloronaphthalene	ND		1.3	2.0	1	09/06/2017 14:43
2-Chlorophenol	ND		1.1	2.0	1	09/06/2017 14:43
4-Chlorophenyl Phenyl Ether	ND		1.2	2.0	1	09/06/2017 14:43
Chrysene	ND		1.1	2.0	1	09/06/2017 14:43
Dibenzo (a,h) anthracene	ND		1.3	2.0	1	09/06/2017 14:43
Dibenzofuran	ND		1.0	2.0	1	09/06/2017 14:43
Di-n-butyl Phthalate	ND		1.0	2.0	1	09/06/2017 14:43
1,2-Dichlorobenzene	ND		0.96	2.0	1	09/06/2017 14:43
1,3-Dichlorobenzene	ND		1.1	2.0	1	09/06/2017 14:43
1,4-Dichlorobenzene	ND		1.0	2.0	1	09/06/2017 14:43
3,3-Dichlorobenzidine	ND		0.96	4.0	1	09/06/2017 14:43
2,4-Dichlorophenol	ND		1.0	2.0	1	09/06/2017 14:43
Diethyl Phthalate	ND		1.1	2.0	1	09/06/2017 14:43
2,4-Dimethylphenol	ND		1.0	2.0	1	09/06/2017 14:43
Dimethyl Phthalate	ND		1.1	2.0	1	09/06/2017 14:43
4,6-Dinitro-2-methylphenol	5.9	J	1.0	10	1	09/06/2017 14:43

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 7.5-8 feet	1709045-015A	Soil	08/30/2017 12:13	GC17 09061712.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		10	50	1	09/06/2017 14:43
2,4-Dinitrotoluene	ND		1.0	2.0	1	09/06/2017 14:43
2,6-Dinitrotoluene	ND		1.1	2.0	1	09/06/2017 14:43
Di-n-octyl Phthalate	ND		1.1	4.0	1	09/06/2017 14:43
1,2-Diphenylhydrazine	ND		1.3	2.0	1	09/06/2017 14:43
Fluoranthene	ND		1.0	2.0	1	09/06/2017 14:43
Fluorene	ND		1.1	2.0	1	09/06/2017 14:43
Hexachlorobenzene	ND		1.4	2.0	1	09/06/2017 14:43
Hexachlorobutadiene	ND		1.2	2.0	1	09/06/2017 14:43
Hexachlorocyclopentadiene	ND		5.8	10	1	09/06/2017 14:43
Hexachloroethane	ND		1.1	2.0	1	09/06/2017 14:43
Indeno (1,2,3-cd) pyrene	ND		1.1	2.0	1	09/06/2017 14:43
Isophorone	ND		0.96	2.0	1	09/06/2017 14:43
2-Methylnaphthalene	ND		1.1	2.0	1	09/06/2017 14:43
2-Methylphenol (o-Cresol)	ND		1.1	2.0	1	09/06/2017 14:43
3 & 4-Methylphenol (m,p-Cresol)	ND		0.96	2.0	1	09/06/2017 14:43
Naphthalene	ND		1.0	2.0	1	09/06/2017 14:43
2-Nitroaniline	ND		5.0	10	1	09/06/2017 14:43
3-Nitroaniline	ND		4.7	10	1	09/06/2017 14:43
4-Nitroaniline	ND		4.4	10	1	09/06/2017 14:43
Nitrobenzene	ND		1.1	2.0	1	09/06/2017 14:43
2-Nitrophenol	ND		5.1	10	1	09/06/2017 14:43
4-Nitrophenol	ND		3.3	10	1	09/06/2017 14:43
N-Nitrosodiphenylamine	ND		1.3	2.0	1	09/06/2017 14:43
N-Nitrosodi-n-propylamine	ND		1.0	2.0	1	09/06/2017 14:43
Pentachlorophenol	ND		2.6	10	1	09/06/2017 14:43
Phenanthrene	ND		1.1	2.0	1	09/06/2017 14:43
Phenol	ND		0.96	2.0	1	09/06/2017 14:43
Pyrene	ND		1.0	2.0	1	09/06/2017 14:43
Pyridine	ND		2.0	2.0	1	09/06/2017 14:43
1,2,4-Trichlorobenzene	ND		1.1	2.0	1	09/06/2017 14:43
2,4,5-Trichlorophenol	ND		0.96	2.0	1	09/06/2017 14:43
2,4,6-Trichlorophenol	ND		1.1	2.0	1	09/06/2017 14:43

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 7.5-8 feet	1709045-015A	Soil	08/30/2017 12:13	GC17 09061712.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	60			30-130		09/06/2017 14:43
Phenol-d5	49			30-130		09/06/2017 14:43
Nitrobenzene-d5	66			30-130		09/06/2017 14:43
2-Fluorobiphenyl	86			30-130		09/06/2017 14:43
2,4,6-Tribromophenol	38			16-130		09/06/2017 14:43
4-Terphenyl-d14	103			30-130		09/06/2017 14:43

Analyst(s): REB

Analytical Comments: a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11, 3.5-4 feet	1709045-018A	Soil	08/30/2017 11:15	GC17 09061713.D	144860	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		11	20	10	09/06/2017 15:11
Acenaphthylene	ND		11	20	10	09/06/2017 15:11
Acetochlor	ND		20	20	10	09/06/2017 15:11
Anthracene	ND		11	20	10	09/06/2017 15:11
Benzidine	ND		18	100	10	09/06/2017 15:11
Benzo (a) anthracene	ND		11	20	10	09/06/2017 15:11
Benzo (a) pyrene	ND		11	20	10	09/06/2017 15:11
Benzo (b) fluoranthene	ND		11	20	10	09/06/2017 15:11
Benzo (g,h,i) perylene	ND		12	20	10	09/06/2017 15:11
Benzo (k) fluoranthene	ND		13	20	10	09/06/2017 15:11
Benzyl Alcohol	ND		41	100	10	09/06/2017 15:11
1,1-Biphenyl	ND		12	20	10	09/06/2017 15:11
Bis (2-chloroethoxy) Methane	ND		11	20	10	09/06/2017 15:11
Bis (2-chloroethyl) Ether	ND		10	20	10	09/06/2017 15:11
Bis (2-chloroisopropyl) Ether	ND		9.6	20	10	09/06/2017 15:11
Bis (2-ethylhexyl) Adipate	ND		20	20	10	09/06/2017 15:11
Bis (2-ethylhexyl) Phthalate	ND		10	20	10	09/06/2017 15:11
4-Bromophenyl Phenyl Ether	ND		13	20	10	09/06/2017 15:11
Butylbenzyl Phthalate	ND		10	20	10	09/06/2017 15:11
4-Chloroaniline	ND		10	40	10	09/06/2017 15:11
4-Chloro-3-methylphenol	ND		9.6	20	10	09/06/2017 15:11
2-Chloronaphthalene	ND		13	20	10	09/06/2017 15:11
2-Chlorophenol	ND		11	20	10	09/06/2017 15:11
4-Chlorophenyl Phenyl Ether	ND		12	20	10	09/06/2017 15:11
Chrysene	ND		11	20	10	09/06/2017 15:11
Dibenzo (a,h) anthracene	ND		13	20	10	09/06/2017 15:11
Dibenzofuran	ND		10	20	10	09/06/2017 15:11
Di-n-butyl Phthalate	ND		10	20	10	09/06/2017 15:11
1,2-Dichlorobenzene	ND		9.6	20	10	09/06/2017 15:11
1,3-Dichlorobenzene	ND		11	20	10	09/06/2017 15:11
1,4-Dichlorobenzene	ND		10	20	10	09/06/2017 15:11
3,3-Dichlorobenzidine	ND		9.6	40	10	09/06/2017 15:11
2,4-Dichlorophenol	ND		10	20	10	09/06/2017 15:11
Diethyl Phthalate	ND		11	20	10	09/06/2017 15:11
2,4-Dimethylphenol	ND		10	20	10	09/06/2017 15:11
Dimethyl Phthalate	ND		11	20	10	09/06/2017 15:11
4,6-Dinitro-2-methylphenol	59	J	10	100	10	09/06/2017 15:11

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 3.5-4 feet	1709045-018A	Soil	08/30/2017 11:15	GC17 09061713.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		100	500	10	09/06/2017 15:11
2,4-Dinitrotoluene	ND		10	20	10	09/06/2017 15:11
2,6-Dinitrotoluene	ND		11	20	10	09/06/2017 15:11
Di-n-octyl Phthalate	ND		11	40	10	09/06/2017 15:11
1,2-Diphenylhydrazine	ND		13	20	10	09/06/2017 15:11
Fluoranthene	ND		10	20	10	09/06/2017 15:11
Fluorene	ND		11	20	10	09/06/2017 15:11
Hexachlorobenzene	ND		14	20	10	09/06/2017 15:11
Hexachlorobutadiene	ND		12	20	10	09/06/2017 15:11
Hexachlorocyclopentadiene	ND		58	100	10	09/06/2017 15:11
Hexachloroethane	ND		11	20	10	09/06/2017 15:11
Indeno (1,2,3-cd) pyrene	ND		11	20	10	09/06/2017 15:11
Isophorone	ND		9.6	20	10	09/06/2017 15:11
2-Methylnaphthalene	ND		11	20	10	09/06/2017 15:11
2-Methylphenol (o-Cresol)	ND		11	20	10	09/06/2017 15:11
3 & 4-Methylphenol (m,p-Cresol)	ND		9.6	20	10	09/06/2017 15:11
Naphthalene	ND		10	20	10	09/06/2017 15:11
2-Nitroaniline	ND		50	100	10	09/06/2017 15:11
3-Nitroaniline	ND		47	100	10	09/06/2017 15:11
4-Nitroaniline	ND		44	100	10	09/06/2017 15:11
Nitrobenzene	ND		11	20	10	09/06/2017 15:11
2-Nitrophenol	ND		51	100	10	09/06/2017 15:11
4-Nitrophenol	ND		33	100	10	09/06/2017 15:11
N-Nitrosodiphenylamine	ND		13	20	10	09/06/2017 15:11
N-Nitrosodi-n-propylamine	ND		10	20	10	09/06/2017 15:11
Pentachlorophenol	ND		26	100	10	09/06/2017 15:11
Phenanthrene	ND		11	20	10	09/06/2017 15:11
Phenol	ND		9.6	20	10	09/06/2017 15:11
Pyrene	ND		10	20	10	09/06/2017 15:11
Pyridine	ND		20	20	10	09/06/2017 15:11
1,2,4-Trichlorobenzene	ND		11	20	10	09/06/2017 15:11
2,4,5-Trichlorophenol	ND		9.6	20	10	09/06/2017 15:11
2,4,6-Trichlorophenol	ND		11	20	10	09/06/2017 15:11

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 3.5-4 feet	1709045-018A	Soil	08/30/2017 11:15	GC17 09061713.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
2-Fluorophenol	19	S		30-130		09/06/2017 15:11
Phenol-d5	0	S		30-130		09/06/2017 15:11
Nitrobenzene-d5	20	S		30-130		09/06/2017 15:11
2-Fluorobiphenyl	43			30-130		09/06/2017 15:11
2,4,6-Tribromophenol	47			16-130		09/06/2017 15:11
4-Terphenyl-d14	55			30-130		09/06/2017 15:11

Analyst(s): REB

Analytical Comments: a3,a4,c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 7.5-8 feet	1709045-019A	Soil	08/30/2017 11:18	GC17 09061721.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		5.6	10	5	09/06/2017 18:54
Acenaphthylene	ND		5.6	10	5	09/06/2017 18:54
Acetochlor	ND		10	10	5	09/06/2017 18:54
Anthracene	ND		5.6	10	5	09/06/2017 18:54
Benzidine	ND		9.2	52	5	09/06/2017 18:54
Benzo (a) anthracene	ND		5.6	10	5	09/06/2017 18:54
Benzo (a) pyrene	ND		5.6	10	5	09/06/2017 18:54
Benzo (b) fluoranthene	ND		5.6	10	5	09/06/2017 18:54
Benzo (g,h,i) perylene	ND		6.0	10	5	09/06/2017 18:54
Benzo (k) fluoranthene	ND		6.4	10	5	09/06/2017 18:54
Benzyl Alcohol	ND		20	52	5	09/06/2017 18:54
1,1-Biphenyl	ND		6.0	10	5	09/06/2017 18:54
Bis (2-chloroethoxy) Methane	ND		5.6	10	5	09/06/2017 18:54
Bis (2-chloroethyl) Ether	ND		5.2	10	5	09/06/2017 18:54
Bis (2-chloroisopropyl) Ether	ND		4.8	10	5	09/06/2017 18:54
Bis (2-ethylhexyl) Adipate	ND		10	10	5	09/06/2017 18:54
Bis (2-ethylhexyl) Phthalate	ND		5.2	10	5	09/06/2017 18:54
4-Bromophenyl Phenyl Ether	ND		6.4	10	5	09/06/2017 18:54
Butylbenzyl Phthalate	ND		5.2	10	5	09/06/2017 18:54
4-Chloroaniline	ND		5.2	20	5	09/06/2017 18:54
4-Chloro-3-methylphenol	ND		4.8	10	5	09/06/2017 18:54
2-Chloronaphthalene	ND		6.4	10	5	09/06/2017 18:54
2-Chlorophenol	ND		5.6	10	5	09/06/2017 18:54
4-Chlorophenyl Phenyl Ether	ND		6.0	10	5	09/06/2017 18:54
Chrysene	ND		5.6	10	5	09/06/2017 18:54
Dibenzo (a,h) anthracene	ND		6.4	10	5	09/06/2017 18:54
Dibenzofuran	ND		5.2	10	5	09/06/2017 18:54
Di-n-butyl Phthalate	ND		5.2	10	5	09/06/2017 18:54
1,2-Dichlorobenzene	ND		4.8	10	5	09/06/2017 18:54
1,3-Dichlorobenzene	ND		5.6	10	5	09/06/2017 18:54
1,4-Dichlorobenzene	ND		5.2	10	5	09/06/2017 18:54
3,3-Dichlorobenzidine	ND		4.8	20	5	09/06/2017 18:54
2,4-Dichlorophenol	ND		5.2	10	5	09/06/2017 18:54
Diethyl Phthalate	ND		5.6	10	5	09/06/2017 18:54
2,4-Dimethylphenol	ND		5.2	10	5	09/06/2017 18:54
Dimethyl Phthalate	ND		5.6	10	5	09/06/2017 18:54
4,6-Dinitro-2-methylphenol	29	J	5.2	52	5	09/06/2017 18:54

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 7.5-8 feet	1709045-019A	Soil	08/30/2017 11:18	GC17 09061721.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		52	250	5	09/06/2017 18:54
2,4-Dinitrotoluene	ND		5.2	10	5	09/06/2017 18:54
2,6-Dinitrotoluene	ND		5.6	10	5	09/06/2017 18:54
Di-n-octyl Phthalate	ND		5.6	20	5	09/06/2017 18:54
1,2-Diphenylhydrazine	ND		6.4	10	5	09/06/2017 18:54
Fluoranthene	ND		5.2	10	5	09/06/2017 18:54
Fluorene	ND		5.6	10	5	09/06/2017 18:54
Hexachlorobenzene	ND		6.8	10	5	09/06/2017 18:54
Hexachlorobutadiene	ND		6.0	10	5	09/06/2017 18:54
Hexachlorocyclopentadiene	ND		29	52	5	09/06/2017 18:54
Hexachloroethane	ND		5.6	10	5	09/06/2017 18:54
Indeno (1,2,3-cd) pyrene	ND		5.6	10	5	09/06/2017 18:54
Isophorone	ND		4.8	10	5	09/06/2017 18:54
2-Methylnaphthalene	ND		5.6	10	5	09/06/2017 18:54
2-Methylphenol (o-Cresol)	ND		5.6	10	5	09/06/2017 18:54
3 & 4-Methylphenol (m,p-Cresol)	ND		4.8	10	5	09/06/2017 18:54
Naphthalene	ND		5.2	10	5	09/06/2017 18:54
2-Nitroaniline	ND		25	52	5	09/06/2017 18:54
3-Nitroaniline	ND		24	52	5	09/06/2017 18:54
4-Nitroaniline	ND		22	52	5	09/06/2017 18:54
Nitrobenzene	ND		5.6	10	5	09/06/2017 18:54
2-Nitrophenol	ND		26	52	5	09/06/2017 18:54
4-Nitrophenol	ND		16	52	5	09/06/2017 18:54
N-Nitrosodiphenylamine	ND		6.4	10	5	09/06/2017 18:54
N-Nitrosodi-n-propylamine	ND		5.2	10	5	09/06/2017 18:54
Pentachlorophenol	ND		13	52	5	09/06/2017 18:54
Phenanthrene	ND		5.6	10	5	09/06/2017 18:54
Phenol	ND		4.8	10	5	09/06/2017 18:54
Pyrene	ND		5.2	10	5	09/06/2017 18:54
Pyridine	ND		10	10	5	09/06/2017 18:54
1,2,4-Trichlorobenzene	ND		5.6	10	5	09/06/2017 18:54
2,4,5-Trichlorophenol	ND		4.8	10	5	09/06/2017 18:54
2,4,6-Trichlorophenol	ND		5.6	10	5	09/06/2017 18:54

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 7.5-8 feet	1709045-019A	Soil	08/30/2017 11:18	GC17 09061721.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	43			30-130		09/06/2017 18:54
Phenol-d5	39			30-130		09/06/2017 18:54
Nitrobenzene-d5	47			30-130		09/06/2017 18:54
2-Fluorobiphenyl	85			30-130		09/06/2017 18:54
2,4,6-Tribromophenol	54			16-130		09/06/2017 18:54
4-Terphenyl-d14	94			30-130		09/06/2017 18:54

Analyst(s): REB

Analytical Comments: a3,a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-12, 3.5-4 feet	1709045-023A	Soil	08/30/2017 13:55	GC17 09061722.D	144860	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		1.1	2.0	1	09/06/2017 19:22
Acenaphthylene	ND		1.1	2.0	1	09/06/2017 19:22
Acetochlor	ND		2.0	2.0	1	09/06/2017 19:22
Anthracene	ND		1.1	2.0	1	09/06/2017 19:22
Benzidine	ND		1.8	10	1	09/06/2017 19:22
Benzo (a) anthracene	ND		1.1	2.0	1	09/06/2017 19:22
Benzo (a) pyrene	ND		1.1	2.0	1	09/06/2017 19:22
Benzo (b) fluoranthene	ND		1.1	2.0	1	09/06/2017 19:22
Benzo (g,h,i) perylene	ND		1.2	2.0	1	09/06/2017 19:22
Benzo (k) fluoranthene	ND		1.3	2.0	1	09/06/2017 19:22
Benzyl Alcohol	ND		4.1	10	1	09/06/2017 19:22
1,1-Biphenyl	ND		1.2	2.0	1	09/06/2017 19:22
Bis (2-chloroethoxy) Methane	ND		1.1	2.0	1	09/06/2017 19:22
Bis (2-chloroethyl) Ether	ND		1.0	2.0	1	09/06/2017 19:22
Bis (2-chloroisopropyl) Ether	ND		0.96	2.0	1	09/06/2017 19:22
Bis (2-ethylhexyl) Adipate	ND		2.0	2.0	1	09/06/2017 19:22
Bis (2-ethylhexyl) Phthalate	ND		1.0	2.0	1	09/06/2017 19:22
4-Bromophenyl Phenyl Ether	ND		1.3	2.0	1	09/06/2017 19:22
Butylbenzyl Phthalate	ND		1.0	2.0	1	09/06/2017 19:22
4-Chloroaniline	ND		1.0	4.0	1	09/06/2017 19:22
4-Chloro-3-methylphenol	ND		0.96	2.0	1	09/06/2017 19:22
2-Chloronaphthalene	ND		1.3	2.0	1	09/06/2017 19:22
2-Chlorophenol	ND		1.1	2.0	1	09/06/2017 19:22
4-Chlorophenyl Phenyl Ether	ND		1.2	2.0	1	09/06/2017 19:22
Chrysene	ND		1.1	2.0	1	09/06/2017 19:22
Dibenzo (a,h) anthracene	ND		1.3	2.0	1	09/06/2017 19:22
Dibenzofuran	ND		1.0	2.0	1	09/06/2017 19:22
Di-n-butyl Phthalate	ND		1.0	2.0	1	09/06/2017 19:22
1,2-Dichlorobenzene	ND		0.96	2.0	1	09/06/2017 19:22
1,3-Dichlorobenzene	ND		1.1	2.0	1	09/06/2017 19:22
1,4-Dichlorobenzene	ND		1.0	2.0	1	09/06/2017 19:22
3,3-Dichlorobenzidine	ND		0.96	4.0	1	09/06/2017 19:22
2,4-Dichlorophenol	ND		1.0	2.0	1	09/06/2017 19:22
Diethyl Phthalate	ND		1.1	2.0	1	09/06/2017 19:22
2,4-Dimethylphenol	ND		1.0	2.0	1	09/06/2017 19:22
Dimethyl Phthalate	ND		1.1	2.0	1	09/06/2017 19:22
4,6-Dinitro-2-methylphenol	5.9	J	1.0	10	1	09/06/2017 19:22

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4 feet	1709045-023A	Soil	08/30/2017 13:55	GC17 09061722.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		10	50	1	09/06/2017 19:22
2,4-Dinitrotoluene	ND		1.0	2.0	1	09/06/2017 19:22
2,6-Dinitrotoluene	ND		1.1	2.0	1	09/06/2017 19:22
Di-n-octyl Phthalate	ND		1.1	4.0	1	09/06/2017 19:22
1,2-Diphenylhydrazine	ND		1.3	2.0	1	09/06/2017 19:22
Fluoranthene	ND		1.0	2.0	1	09/06/2017 19:22
Fluorene	ND		1.1	2.0	1	09/06/2017 19:22
Hexachlorobenzene	ND		1.4	2.0	1	09/06/2017 19:22
Hexachlorobutadiene	ND		1.2	2.0	1	09/06/2017 19:22
Hexachlorocyclopentadiene	ND		5.8	10	1	09/06/2017 19:22
Hexachloroethane	ND		1.1	2.0	1	09/06/2017 19:22
Indeno (1,2,3-cd) pyrene	ND		1.1	2.0	1	09/06/2017 19:22
Isophorone	ND		0.96	2.0	1	09/06/2017 19:22
2-Methylnaphthalene	ND		1.1	2.0	1	09/06/2017 19:22
2-Methylphenol (o-Cresol)	ND		1.1	2.0	1	09/06/2017 19:22
3 & 4-Methylphenol (m,p-Cresol)	ND		0.96	2.0	1	09/06/2017 19:22
Naphthalene	ND		1.0	2.0	1	09/06/2017 19:22
2-Nitroaniline	ND		5.0	10	1	09/06/2017 19:22
3-Nitroaniline	ND		4.7	10	1	09/06/2017 19:22
4-Nitroaniline	ND		4.4	10	1	09/06/2017 19:22
Nitrobenzene	ND		1.1	2.0	1	09/06/2017 19:22
2-Nitrophenol	ND		5.1	10	1	09/06/2017 19:22
4-Nitrophenol	ND		3.3	10	1	09/06/2017 19:22
N-Nitrosodiphenylamine	ND		1.3	2.0	1	09/06/2017 19:22
N-Nitrosodi-n-propylamine	ND		1.0	2.0	1	09/06/2017 19:22
Pentachlorophenol	ND		2.6	10	1	09/06/2017 19:22
Phenanthrene	ND		1.1	2.0	1	09/06/2017 19:22
Phenol	ND		0.96	2.0	1	09/06/2017 19:22
Pyrene	ND		1.0	2.0	1	09/06/2017 19:22
Pyridine	ND		2.0	2.0	1	09/06/2017 19:22
1,2,4-Trichlorobenzene	ND		1.1	2.0	1	09/06/2017 19:22
2,4,5-Trichlorophenol	ND		0.96	2.0	1	09/06/2017 19:22
2,4,6-Trichlorophenol	ND		1.1	2.0	1	09/06/2017 19:22

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4 feet	1709045-023A	Soil	08/30/2017 13:55	GC17 09061722.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	57			30-130		09/06/2017 19:22
Phenol-d5	47			30-130		09/06/2017 19:22
Nitrobenzene-d5	81			30-130		09/06/2017 19:22
2-Fluorobiphenyl	85			30-130		09/06/2017 19:22
2,4,6-Tribromophenol	30			16-130		09/06/2017 19:22
4-Terphenyl-d14	104			30-130		09/06/2017 19:22

Analyst(s): REB

Analytical Comments: a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7.5-8 feet	1709045-024A	Soil	08/30/2017 14:00	GC17 09061723.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		5.6	10	5	09/06/2017 19:50
Acenaphthylene	ND		5.6	10	5	09/06/2017 19:50
Acetochlor	ND		10	10	5	09/06/2017 19:50
Anthracene	ND		5.6	10	5	09/06/2017 19:50
Benzidine	ND		9.2	52	5	09/06/2017 19:50
Benzo (a) anthracene	ND		5.6	10	5	09/06/2017 19:50
Benzo (a) pyrene	ND		5.6	10	5	09/06/2017 19:50
Benzo (b) fluoranthene	ND		5.6	10	5	09/06/2017 19:50
Benzo (g,h,i) perylene	ND		6.0	10	5	09/06/2017 19:50
Benzo (k) fluoranthene	ND		6.4	10	5	09/06/2017 19:50
Benzyl Alcohol	ND		20	52	5	09/06/2017 19:50
1,1-Biphenyl	ND		6.0	10	5	09/06/2017 19:50
Bis (2-chloroethoxy) Methane	ND		5.6	10	5	09/06/2017 19:50
Bis (2-chloroethyl) Ether	ND		5.2	10	5	09/06/2017 19:50
Bis (2-chloroisopropyl) Ether	ND		4.8	10	5	09/06/2017 19:50
Bis (2-ethylhexyl) Adipate	ND		10	10	5	09/06/2017 19:50
Bis (2-ethylhexyl) Phthalate	ND		5.2	10	5	09/06/2017 19:50
4-Bromophenyl Phenyl Ether	ND		6.4	10	5	09/06/2017 19:50
Butylbenzyl Phthalate	ND		5.2	10	5	09/06/2017 19:50
4-Chloroaniline	ND		5.2	20	5	09/06/2017 19:50
4-Chloro-3-methylphenol	ND		4.8	10	5	09/06/2017 19:50
2-Chloronaphthalene	ND		6.4	10	5	09/06/2017 19:50
2-Chlorophenol	ND		5.6	10	5	09/06/2017 19:50
4-Chlorophenyl Phenyl Ether	ND		6.0	10	5	09/06/2017 19:50
Chrysene	ND		5.6	10	5	09/06/2017 19:50
Dibenzo (a,h) anthracene	ND		6.4	10	5	09/06/2017 19:50
Dibenzofuran	ND		5.2	10	5	09/06/2017 19:50
Di-n-butyl Phthalate	ND		5.2	10	5	09/06/2017 19:50
1,2-Dichlorobenzene	ND		4.8	10	5	09/06/2017 19:50
1,3-Dichlorobenzene	ND		5.6	10	5	09/06/2017 19:50
1,4-Dichlorobenzene	ND		5.2	10	5	09/06/2017 19:50
3,3-Dichlorobenzidine	ND		4.8	20	5	09/06/2017 19:50
2,4-Dichlorophenol	ND		5.2	10	5	09/06/2017 19:50
Diethyl Phthalate	ND		5.6	10	5	09/06/2017 19:50
2,4-Dimethylphenol	ND		5.2	10	5	09/06/2017 19:50
Dimethyl Phthalate	ND		5.6	10	5	09/06/2017 19:50
4,6-Dinitro-2-methylphenol	29	J	5.2	52	5	09/06/2017 19:50

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7.5-8 feet	1709045-024A	Soil	08/30/2017 14:00	GC17 09061723.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		52	250	5	09/06/2017 19:50
2,4-Dinitrotoluene	ND		5.2	10	5	09/06/2017 19:50
2,6-Dinitrotoluene	ND		5.6	10	5	09/06/2017 19:50
Di-n-octyl Phthalate	ND		5.6	20	5	09/06/2017 19:50
1,2-Diphenylhydrazine	ND		6.4	10	5	09/06/2017 19:50
Fluoranthene	ND		5.2	10	5	09/06/2017 19:50
Fluorene	ND		5.6	10	5	09/06/2017 19:50
Hexachlorobenzene	ND		6.8	10	5	09/06/2017 19:50
Hexachlorobutadiene	ND		6.0	10	5	09/06/2017 19:50
Hexachlorocyclopentadiene	ND		29	52	5	09/06/2017 19:50
Hexachloroethane	ND		5.6	10	5	09/06/2017 19:50
Indeno (1,2,3-cd) pyrene	ND		5.6	10	5	09/06/2017 19:50
Isophorone	ND		4.8	10	5	09/06/2017 19:50
2-Methylnaphthalene	ND		5.6	10	5	09/06/2017 19:50
2-Methylphenol (o-Cresol)	ND		5.6	10	5	09/06/2017 19:50
3 & 4-Methylphenol (m,p-Cresol)	ND		4.8	10	5	09/06/2017 19:50
Naphthalene	ND		5.2	10	5	09/06/2017 19:50
2-Nitroaniline	ND		25	52	5	09/06/2017 19:50
3-Nitroaniline	ND		24	52	5	09/06/2017 19:50
4-Nitroaniline	ND		22	52	5	09/06/2017 19:50
Nitrobenzene	ND		5.6	10	5	09/06/2017 19:50
2-Nitrophenol	ND		26	52	5	09/06/2017 19:50
4-Nitrophenol	ND		16	52	5	09/06/2017 19:50
N-Nitrosodiphenylamine	ND		6.4	10	5	09/06/2017 19:50
N-Nitrosodi-n-propylamine	ND		5.2	10	5	09/06/2017 19:50
Pentachlorophenol	ND		13	52	5	09/06/2017 19:50
Phenanthrene	ND		5.6	10	5	09/06/2017 19:50
Phenol	ND		4.8	10	5	09/06/2017 19:50
Pyrene	ND		5.2	10	5	09/06/2017 19:50
Pyridine	ND		10	10	5	09/06/2017 19:50
1,2,4-Trichlorobenzene	ND		5.6	10	5	09/06/2017 19:50
2,4,5-Trichlorophenol	ND		4.8	10	5	09/06/2017 19:50
2,4,6-Trichlorophenol	ND		5.6	10	5	09/06/2017 19:50

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7.5-8 feet	1709045-024A	Soil	08/30/2017 14:00	GC17 09061723.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
2-Fluorophenol	50			30-130		09/06/2017 19:50
Phenol-d5	24	S		30-130		09/06/2017 19:50
Nitrobenzene-d5	51			30-130		09/06/2017 19:50
2-Fluorobiphenyl	84			30-130		09/06/2017 19:50
2,4,6-Tribromophenol	52			16-130		09/06/2017 19:50
4-Terphenyl-d14	99			30-130		09/06/2017 19:50

Analyst(s): REB

Analytical Comments: a3,a4,c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4 feet	1709045-027A	Soil	08/30/2017 13:40	GC17 09061724.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 20:18
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 20:18
Acetochlor	ND		0.25	0.25	1	09/06/2017 20:18
Anthracene	ND		0.14	0.25	1	09/06/2017 20:18
Benzidine	ND		0.23	1.3	1	09/06/2017 20:18
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 20:18
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 20:18
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 20:18
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 20:18
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 20:18
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 20:18
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 20:18
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 20:18
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 20:18
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 20:18
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 20:18
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 20:18
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 20:18
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 20:18
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 20:18
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 20:18
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 20:18
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 20:18
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 20:18
Chrysene	ND		0.14	0.25	1	09/06/2017 20:18
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 20:18
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 20:18
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 20:18
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 20:18
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 20:18
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 20:18
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 20:18
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 20:18
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 20:18
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 20:18
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 20:18
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 20:18

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4 feet	1709045-027A	Soil	08/30/2017 13:40	GC17 09061724.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 20:18
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 20:18
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 20:18
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 20:18
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 20:18
Fluoranthene	ND		0.13	0.25	1	09/06/2017 20:18
Fluorene	ND		0.14	0.25	1	09/06/2017 20:18
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 20:18
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 20:18
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 20:18
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 20:18
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 20:18
Isophorone	ND		0.12	0.25	1	09/06/2017 20:18
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 20:18
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 20:18
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 20:18
Naphthalene	ND		0.13	0.25	1	09/06/2017 20:18
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 20:18
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 20:18
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 20:18
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 20:18
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 20:18
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 20:18
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 20:18
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 20:18
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 20:18
Phenanthrene	ND		0.14	0.25	1	09/06/2017 20:18
Phenol	ND		0.12	0.25	1	09/06/2017 20:18
Pyrene	ND		0.13	0.25	1	09/06/2017 20:18
Pyridine	ND		0.25	0.25	1	09/06/2017 20:18
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 20:18
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 20:18
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 20:18

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4 feet	1709045-027A	Soil	08/30/2017 13:40	GC17 09061724.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	88			30-130		09/06/2017 20:18
Phenol-d5	84			30-130		09/06/2017 20:18
Nitrobenzene-d5	95			30-130		09/06/2017 20:18
2-Fluorobiphenyl	82			30-130		09/06/2017 20:18
2,4,6-Tribromophenol	42			16-130		09/06/2017 20:18
4-Terphenyl-d14	100			30-130		09/06/2017 20:18

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 7.5-8 feet	1709045-028A	Soil	08/30/2017 13:45	GC17 09061725.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 20:45
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 20:45
Acetochlor	ND		0.25	0.25	1	09/06/2017 20:45
Anthracene	ND		0.14	0.25	1	09/06/2017 20:45
Benzidine	ND		0.23	1.3	1	09/06/2017 20:45
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 20:45
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 20:45
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 20:45
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 20:45
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 20:45
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 20:45
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 20:45
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 20:45
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 20:45
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 20:45
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 20:45
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 20:45
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 20:45
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 20:45
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 20:45
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 20:45
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 20:45
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 20:45
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 20:45
Chrysene	ND		0.14	0.25	1	09/06/2017 20:45
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 20:45
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 20:45
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 20:45
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 20:45
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 20:45
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 20:45
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 20:45
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 20:45
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 20:45
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 20:45
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 20:45
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 20:45

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 7.5-8 feet	1709045-028A	Soil	08/30/2017 13:45	GC17 09061725.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 20:45
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 20:45
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 20:45
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 20:45
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 20:45
Fluoranthene	ND		0.13	0.25	1	09/06/2017 20:45
Fluorene	ND		0.14	0.25	1	09/06/2017 20:45
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 20:45
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 20:45
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 20:45
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 20:45
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 20:45
Isophorone	ND		0.12	0.25	1	09/06/2017 20:45
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 20:45
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 20:45
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 20:45
Naphthalene	ND		0.13	0.25	1	09/06/2017 20:45
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 20:45
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 20:45
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 20:45
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 20:45
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 20:45
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 20:45
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 20:45
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 20:45
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 20:45
Phenanthrene	ND		0.14	0.25	1	09/06/2017 20:45
Phenol	ND		0.12	0.25	1	09/06/2017 20:45
Pyrene	ND		0.13	0.25	1	09/06/2017 20:45
Pyridine	ND		0.25	0.25	1	09/06/2017 20:45
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 20:45
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 20:45
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 20:45

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 7.5-8 feet	1709045-028A	Soil	08/30/2017 13:45	GC17 09061725.D	144860

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	88			30-130		09/06/2017 20:45
Phenol-d5	81			30-130		09/06/2017 20:45
Nitrobenzene-d5	89			30-130		09/06/2017 20:45
2-Fluorobiphenyl	81			30-130		09/06/2017 20:45
2,4,6-Tribromophenol	37			16-130		09/06/2017 20:45
4-Terphenyl-d14	103			30-130		09/06/2017 20:45

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4 feet	1709045-031A	Soil	08/30/2017 13:27	GC17 09061726.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 21:13
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 21:13
Acetochlor	ND		0.25	0.25	1	09/06/2017 21:13
Anthracene	ND		0.14	0.25	1	09/06/2017 21:13
Benzidine	ND		0.23	1.3	1	09/06/2017 21:13
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 21:13
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 21:13
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 21:13
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 21:13
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 21:13
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 21:13
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 21:13
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 21:13
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 21:13
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 21:13
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 21:13
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 21:13
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 21:13
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 21:13
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 21:13
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 21:13
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 21:13
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 21:13
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 21:13
Chrysene	ND		0.14	0.25	1	09/06/2017 21:13
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 21:13
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 21:13
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 21:13
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 21:13
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 21:13
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 21:13
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 21:13
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 21:13
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 21:13
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 21:13
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 21:13
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 21:13

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4 feet	1709045-031A	Soil	08/30/2017 13:27	GC17 09061726.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 21:13
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 21:13
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 21:13
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 21:13
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 21:13
Fluoranthene	ND		0.13	0.25	1	09/06/2017 21:13
Fluorene	ND		0.14	0.25	1	09/06/2017 21:13
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 21:13
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 21:13
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 21:13
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 21:13
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 21:13
Isophorone	ND		0.12	0.25	1	09/06/2017 21:13
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 21:13
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 21:13
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 21:13
Naphthalene	ND		0.13	0.25	1	09/06/2017 21:13
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 21:13
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 21:13
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 21:13
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 21:13
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 21:13
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 21:13
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 21:13
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 21:13
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 21:13
Phenanthrene	ND		0.14	0.25	1	09/06/2017 21:13
Phenol	ND		0.12	0.25	1	09/06/2017 21:13
Pyrene	ND		0.13	0.25	1	09/06/2017 21:13
Pyridine	ND		0.25	0.25	1	09/06/2017 21:13
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 21:13
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 21:13
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 21:13

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4 feet	1709045-031A	Soil	08/30/2017 13:27	GC17 09061726.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	89			30-130		09/06/2017 21:13
Phenol-d5	85			30-130		09/06/2017 21:13
Nitrobenzene-d5	94			30-130		09/06/2017 21:13
2-Fluorobiphenyl	82			30-130		09/06/2017 21:13
2,4,6-Tribromophenol	44			16-130		09/06/2017 21:13
4-Terphenyl-d14	105			30-130		09/06/2017 21:13

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 7.5-8 feet	1709045-032A	Soil	08/30/2017 13:32	GC17 09061727.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 21:41
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 21:41
Acetochlor	ND		0.25	0.25	1	09/06/2017 21:41
Anthracene	ND		0.14	0.25	1	09/06/2017 21:41
Benzidine	ND		0.23	1.3	1	09/06/2017 21:41
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 21:41
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 21:41
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 21:41
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 21:41
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 21:41
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 21:41
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 21:41
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 21:41
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 21:41
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 21:41
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 21:41
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 21:41
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 21:41
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 21:41
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 21:41
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 21:41
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 21:41
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 21:41
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 21:41
Chrysene	ND		0.14	0.25	1	09/06/2017 21:41
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 21:41
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 21:41
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 21:41
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 21:41
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 21:41
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 21:41
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 21:41
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 21:41
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 21:41
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 21:41
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 21:41
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 21:41

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 7.5-8 feet	1709045-032A	Soil	08/30/2017 13:32	GC17 09061727.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 21:41
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 21:41
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 21:41
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 21:41
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 21:41
Fluoranthene	ND		0.13	0.25	1	09/06/2017 21:41
Fluorene	ND		0.14	0.25	1	09/06/2017 21:41
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 21:41
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 21:41
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 21:41
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 21:41
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 21:41
Isophorone	ND		0.12	0.25	1	09/06/2017 21:41
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 21:41
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 21:41
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 21:41
Naphthalene	ND		0.13	0.25	1	09/06/2017 21:41
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 21:41
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 21:41
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 21:41
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 21:41
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 21:41
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 21:41
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 21:41
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 21:41
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 21:41
Phenanthrene	ND		0.14	0.25	1	09/06/2017 21:41
Phenol	ND		0.12	0.25	1	09/06/2017 21:41
Pyrene	ND		0.13	0.25	1	09/06/2017 21:41
Pyridine	ND		0.25	0.25	1	09/06/2017 21:41
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 21:41
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 21:41
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 21:41

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 7.5-8 feet	1709045-032A	Soil	08/30/2017 13:32	GC17 09061727.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	95			30-130		09/06/2017 21:41
Phenol-d5	92			30-130		09/06/2017 21:41
Nitrobenzene-d5	98			30-130		09/06/2017 21:41
2-Fluorobiphenyl	89			30-130		09/06/2017 21:41
2,4,6-Tribromophenol	50			16-130		09/06/2017 21:41
4-Terphenyl-d14	108			30-130		09/06/2017 21:41

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-15, 3.5-4 feet	1709045-035A	Soil	08/30/2017 13:05	GC17 09061728.D	144898	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 22:08
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 22:08
Acetochlor	ND		0.25	0.25	1	09/06/2017 22:08
Anthracene	ND		0.14	0.25	1	09/06/2017 22:08
Benzidine	ND		0.23	1.3	1	09/06/2017 22:08
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 22:08
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 22:08
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 22:08
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 22:08
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 22:08
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 22:08
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 22:08
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 22:08
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 22:08
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 22:08
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 22:08
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 22:08
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 22:08
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 22:08
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 22:08
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 22:08
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 22:08
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 22:08
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 22:08
Chrysene	ND		0.14	0.25	1	09/06/2017 22:08
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 22:08
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 22:08
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 22:08
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 22:08
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 22:08
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 22:08
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 22:08
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 22:08
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 22:08
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 22:08
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 22:08
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 22:08

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4 feet	1709045-035A	Soil	08/30/2017 13:05	GC17 09061728.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 22:08
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 22:08
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 22:08
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 22:08
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 22:08
Fluoranthene	ND		0.13	0.25	1	09/06/2017 22:08
Fluorene	ND		0.14	0.25	1	09/06/2017 22:08
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 22:08
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 22:08
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 22:08
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 22:08
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 22:08
Isophorone	ND		0.12	0.25	1	09/06/2017 22:08
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 22:08
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 22:08
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 22:08
Naphthalene	ND		0.13	0.25	1	09/06/2017 22:08
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 22:08
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 22:08
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 22:08
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 22:08
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 22:08
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 22:08
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 22:08
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 22:08
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 22:08
Phenanthrene	ND		0.14	0.25	1	09/06/2017 22:08
Phenol	ND		0.12	0.25	1	09/06/2017 22:08
Pyrene	ND		0.13	0.25	1	09/06/2017 22:08
Pyridine	ND		0.25	0.25	1	09/06/2017 22:08
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 22:08
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 22:08
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 22:08

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4 feet	1709045-035A	Soil	08/30/2017 13:05	GC17 09061728.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	81			30-130		09/06/2017 22:08
Phenol-d5	76			30-130		09/06/2017 22:08
Nitrobenzene-d5	86			30-130		09/06/2017 22:08
2-Fluorobiphenyl	76			30-130		09/06/2017 22:08
2,4,6-Tribromophenol	44			16-130		09/06/2017 22:08
4-Terphenyl-d14	97			30-130		09/06/2017 22:08

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7.5-8 feet	1709045-036A	Soil	08/30/2017 13:11	GC17 09061729.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 22:36
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 22:36
Acetochlor	ND		0.25	0.25	1	09/06/2017 22:36
Anthracene	ND		0.14	0.25	1	09/06/2017 22:36
Benzidine	ND		0.23	1.3	1	09/06/2017 22:36
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 22:36
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 22:36
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 22:36
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 22:36
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 22:36
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 22:36
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 22:36
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 22:36
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 22:36
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 22:36
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 22:36
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 22:36
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 22:36
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 22:36
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 22:36
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 22:36
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 22:36
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 22:36
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 22:36
Chrysene	ND		0.14	0.25	1	09/06/2017 22:36
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 22:36
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 22:36
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 22:36
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 22:36
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 22:36
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 22:36
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 22:36
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 22:36
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 22:36
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 22:36
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 22:36
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 22:36

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7.5-8 feet	1709045-036A	Soil	08/30/2017 13:11	GC17 09061729.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 22:36
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 22:36
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 22:36
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 22:36
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 22:36
Fluoranthene	ND		0.13	0.25	1	09/06/2017 22:36
Fluorene	ND		0.14	0.25	1	09/06/2017 22:36
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 22:36
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 22:36
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 22:36
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 22:36
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 22:36
Isophorone	ND		0.12	0.25	1	09/06/2017 22:36
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 22:36
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 22:36
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 22:36
Naphthalene	ND		0.13	0.25	1	09/06/2017 22:36
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 22:36
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 22:36
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 22:36
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 22:36
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 22:36
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 22:36
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 22:36
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 22:36
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 22:36
Phenanthrene	ND		0.14	0.25	1	09/06/2017 22:36
Phenol	ND		0.12	0.25	1	09/06/2017 22:36
Pyrene	ND		0.13	0.25	1	09/06/2017 22:36
Pyridine	ND		0.25	0.25	1	09/06/2017 22:36
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 22:36
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 22:36
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 22:36

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7.5-8 feet	1709045-036A	Soil	08/30/2017 13:11	GC17 09061729.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	89			30-130		09/06/2017 22:36
Phenol-d5	86			30-130		09/06/2017 22:36
Nitrobenzene-d5	97			30-130		09/06/2017 22:36
2-Fluorobiphenyl	86			30-130		09/06/2017 22:36
2,4,6-Tribromophenol	38			16-130		09/06/2017 22:36
4-Terphenyl-d14	108			30-130		09/06/2017 22:36

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4 feet	1709045-039A	Soil	08/31/2017 11:04	GC17 09061730.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		11	20	10	09/06/2017 23:04
Acenaphthylene	ND		11	20	10	09/06/2017 23:04
Acetochlor	ND		20	20	10	09/06/2017 23:04
Anthracene	ND		11	20	10	09/06/2017 23:04
Benzidine	ND		18	100	10	09/06/2017 23:04
Benzo (a) anthracene	ND		11	20	10	09/06/2017 23:04
Benzo (a) pyrene	ND		11	20	10	09/06/2017 23:04
Benzo (b) fluoranthene	ND		11	20	10	09/06/2017 23:04
Benzo (g,h,i) perylene	ND		12	20	10	09/06/2017 23:04
Benzo (k) fluoranthene	ND		13	20	10	09/06/2017 23:04
Benzyl Alcohol	ND		41	100	10	09/06/2017 23:04
1,1-Biphenyl	ND		12	20	10	09/06/2017 23:04
Bis (2-chloroethoxy) Methane	ND		11	20	10	09/06/2017 23:04
Bis (2-chloroethyl) Ether	ND		10	20	10	09/06/2017 23:04
Bis (2-chloroisopropyl) Ether	ND		9.6	20	10	09/06/2017 23:04
Bis (2-ethylhexyl) Adipate	ND		20	20	10	09/06/2017 23:04
Bis (2-ethylhexyl) Phthalate	ND		10	20	10	09/06/2017 23:04
4-Bromophenyl Phenyl Ether	ND		13	20	10	09/06/2017 23:04
Butylbenzyl Phthalate	ND		10	20	10	09/06/2017 23:04
4-Chloroaniline	ND		10	40	10	09/06/2017 23:04
4-Chloro-3-methylphenol	ND		9.6	20	10	09/06/2017 23:04
2-Chloronaphthalene	ND		13	20	10	09/06/2017 23:04
2-Chlorophenol	ND		11	20	10	09/06/2017 23:04
4-Chlorophenyl Phenyl Ether	ND		12	20	10	09/06/2017 23:04
Chrysene	ND		11	20	10	09/06/2017 23:04
Dibenzo (a,h) anthracene	ND		13	20	10	09/06/2017 23:04
Dibenzofuran	ND		10	20	10	09/06/2017 23:04
Di-n-butyl Phthalate	ND		10	20	10	09/06/2017 23:04
1,2-Dichlorobenzene	ND		9.6	20	10	09/06/2017 23:04
1,3-Dichlorobenzene	ND		11	20	10	09/06/2017 23:04
1,4-Dichlorobenzene	ND		10	20	10	09/06/2017 23:04
3,3-Dichlorobenzidine	ND		9.6	40	10	09/06/2017 23:04
2,4-Dichlorophenol	ND		10	20	10	09/06/2017 23:04
Diethyl Phthalate	ND		11	20	10	09/06/2017 23:04
2,4-Dimethylphenol	ND		10	20	10	09/06/2017 23:04
Dimethyl Phthalate	ND		11	20	10	09/06/2017 23:04
4,6-Dinitro-2-methylphenol	59	J	10	100	10	09/06/2017 23:04

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4 feet	1709045-039A	Soil	08/31/2017 11:04	GC17 09061730.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		100	500	10	09/06/2017 23:04
2,4-Dinitrotoluene	ND		10	20	10	09/06/2017 23:04
2,6-Dinitrotoluene	ND		11	20	10	09/06/2017 23:04
Di-n-octyl Phthalate	ND		11	40	10	09/06/2017 23:04
1,2-Diphenylhydrazine	ND		13	20	10	09/06/2017 23:04
Fluoranthene	ND		10	20	10	09/06/2017 23:04
Fluorene	ND		11	20	10	09/06/2017 23:04
Hexachlorobenzene	ND		14	20	10	09/06/2017 23:04
Hexachlorobutadiene	ND		12	20	10	09/06/2017 23:04
Hexachlorocyclopentadiene	ND		58	100	10	09/06/2017 23:04
Hexachloroethane	ND		11	20	10	09/06/2017 23:04
Indeno (1,2,3-cd) pyrene	ND		11	20	10	09/06/2017 23:04
Isophorone	ND		9.6	20	10	09/06/2017 23:04
2-Methylnaphthalene	ND		11	20	10	09/06/2017 23:04
2-Methylphenol (o-Cresol)	ND		11	20	10	09/06/2017 23:04
3 & 4-Methylphenol (m,p-Cresol)	ND		9.6	20	10	09/06/2017 23:04
Naphthalene	ND		10	20	10	09/06/2017 23:04
2-Nitroaniline	ND		50	100	10	09/06/2017 23:04
3-Nitroaniline	ND		47	100	10	09/06/2017 23:04
4-Nitroaniline	ND		44	100	10	09/06/2017 23:04
Nitrobenzene	ND		11	20	10	09/06/2017 23:04
2-Nitrophenol	ND		51	100	10	09/06/2017 23:04
4-Nitrophenol	ND		33	100	10	09/06/2017 23:04
N-Nitrosodiphenylamine	ND		13	20	10	09/06/2017 23:04
N-Nitrosodi-n-propylamine	ND		10	20	10	09/06/2017 23:04
Pentachlorophenol	ND		26	100	10	09/06/2017 23:04
Phenanthrene	ND		11	20	10	09/06/2017 23:04
Phenol	ND		9.6	20	10	09/06/2017 23:04
Pyrene	ND		10	20	10	09/06/2017 23:04
Pyridine	ND		20	20	10	09/06/2017 23:04
1,2,4-Trichlorobenzene	ND		11	20	10	09/06/2017 23:04
2,4,5-Trichlorophenol	ND		9.6	20	10	09/06/2017 23:04
2,4,6-Trichlorophenol	ND		11	20	10	09/06/2017 23:04

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4 feet	1709045-039A	Soil	08/31/2017 11:04	GC17 09061730.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	57			30-130		09/06/2017 23:04
Phenol-d5	51			30-130		09/06/2017 23:04
Nitrobenzene-d5	78			30-130		09/06/2017 23:04
2-Fluorobiphenyl	84			30-130		09/06/2017 23:04
2,4,6-Tribromophenol	65			16-130		09/06/2017 23:04
4-Terphenyl-d14	99			30-130		09/06/2017 23:04

Analyst(s): REB

Analytical Comments: a3,a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 7.5-8 feet	1709045-040A	Soil	08/31/2017 11:10	GC17 09061731.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/06/2017 23:31
Acenaphthylene	ND		0.14	0.25	1	09/06/2017 23:31
Acetochlor	ND		0.25	0.25	1	09/06/2017 23:31
Anthracene	ND		0.14	0.25	1	09/06/2017 23:31
Benzidine	ND		0.23	1.3	1	09/06/2017 23:31
Benzo (a) anthracene	ND		0.14	0.25	1	09/06/2017 23:31
Benzo (a) pyrene	ND		0.14	0.25	1	09/06/2017 23:31
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/06/2017 23:31
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/06/2017 23:31
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/06/2017 23:31
Benzyl Alcohol	ND		0.51	1.3	1	09/06/2017 23:31
1,1-Biphenyl	ND		0.15	0.25	1	09/06/2017 23:31
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/06/2017 23:31
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/06/2017 23:31
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/06/2017 23:31
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/06/2017 23:31
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/06/2017 23:31
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/06/2017 23:31
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/06/2017 23:31
4-Chloroaniline	ND		0.13	0.50	1	09/06/2017 23:31
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/06/2017 23:31
2-Chloronaphthalene	ND		0.16	0.25	1	09/06/2017 23:31
2-Chlorophenol	ND		0.14	0.25	1	09/06/2017 23:31
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/06/2017 23:31
Chrysene	ND		0.14	0.25	1	09/06/2017 23:31
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/06/2017 23:31
Dibenzofuran	ND		0.13	0.25	1	09/06/2017 23:31
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/06/2017 23:31
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/06/2017 23:31
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/06/2017 23:31
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/06/2017 23:31
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/06/2017 23:31
2,4-Dichlorophenol	ND		0.13	0.25	1	09/06/2017 23:31
Diethyl Phthalate	ND		0.14	0.25	1	09/06/2017 23:31
2,4-Dimethylphenol	ND		0.13	0.25	1	09/06/2017 23:31
Dimethyl Phthalate	ND		0.14	0.25	1	09/06/2017 23:31
4,6-Dinitro-2-methylphenol	0.73	J	0.13	1.3	1	09/06/2017 23:31

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 7.5-8 feet	1709045-040A	Soil	08/31/2017 11:10	GC17 09061731.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/06/2017 23:31
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/06/2017 23:31
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/06/2017 23:31
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/06/2017 23:31
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/06/2017 23:31
Fluoranthene	ND		0.13	0.25	1	09/06/2017 23:31
Fluorene	ND		0.14	0.25	1	09/06/2017 23:31
Hexachlorobenzene	ND		0.17	0.25	1	09/06/2017 23:31
Hexachlorobutadiene	ND		0.15	0.25	1	09/06/2017 23:31
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/06/2017 23:31
Hexachloroethane	ND		0.14	0.25	1	09/06/2017 23:31
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/06/2017 23:31
Isophorone	ND		0.12	0.25	1	09/06/2017 23:31
2-Methylnaphthalene	ND		0.14	0.25	1	09/06/2017 23:31
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/06/2017 23:31
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/06/2017 23:31
Naphthalene	ND		0.13	0.25	1	09/06/2017 23:31
2-Nitroaniline	ND		0.62	1.3	1	09/06/2017 23:31
3-Nitroaniline	ND		0.59	1.3	1	09/06/2017 23:31
4-Nitroaniline	ND		0.55	1.3	1	09/06/2017 23:31
Nitrobenzene	ND		0.14	0.25	1	09/06/2017 23:31
2-Nitrophenol	ND		0.64	1.3	1	09/06/2017 23:31
4-Nitrophenol	ND		0.41	1.3	1	09/06/2017 23:31
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/06/2017 23:31
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/06/2017 23:31
Pentachlorophenol	ND		0.32	1.3	1	09/06/2017 23:31
Phenanthrene	ND		0.14	0.25	1	09/06/2017 23:31
Phenol	ND		0.12	0.25	1	09/06/2017 23:31
Pyrene	ND		0.13	0.25	1	09/06/2017 23:31
Pyridine	ND		0.25	0.25	1	09/06/2017 23:31
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/06/2017 23:31
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/06/2017 23:31
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/06/2017 23:31

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 7.5-8 feet	1709045-040A	Soil	08/31/2017 11:10	GC17 09061731.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	98			30-130		09/06/2017 23:31
Phenol-d5	94			30-130		09/06/2017 23:31
Nitrobenzene-d5	99			30-130		09/06/2017 23:31
2-Fluorobiphenyl	88			30-130		09/06/2017 23:31
2,4,6-Tribromophenol	49			16-130		09/06/2017 23:31
4-Terphenyl-d14	116			30-130		09/06/2017 23:31

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
EW-1, 3.5-4 feet	1709045-043A	Soil	08/31/2017 13:55	GC17 09061732.D	144898	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		5.6	10	5	09/06/2017 23:59
Acenaphthylene	ND		5.6	10	5	09/06/2017 23:59
Acetochlor	ND		10	10	5	09/06/2017 23:59
Anthracene	ND		5.6	10	5	09/06/2017 23:59
Benzidine	ND		9.2	52	5	09/06/2017 23:59
Benzo (a) anthracene	ND		5.6	10	5	09/06/2017 23:59
Benzo (a) pyrene	ND		5.6	10	5	09/06/2017 23:59
Benzo (b) fluoranthene	ND		5.6	10	5	09/06/2017 23:59
Benzo (g,h,i) perylene	ND		6.0	10	5	09/06/2017 23:59
Benzo (k) fluoranthene	ND		6.4	10	5	09/06/2017 23:59
Benzyl Alcohol	ND		20	52	5	09/06/2017 23:59
1,1-Biphenyl	ND		6.0	10	5	09/06/2017 23:59
Bis (2-chloroethoxy) Methane	ND		5.6	10	5	09/06/2017 23:59
Bis (2-chloroethyl) Ether	ND		5.2	10	5	09/06/2017 23:59
Bis (2-chloroisopropyl) Ether	ND		4.8	10	5	09/06/2017 23:59
Bis (2-ethylhexyl) Adipate	ND		10	10	5	09/06/2017 23:59
Bis (2-ethylhexyl) Phthalate	ND		5.2	10	5	09/06/2017 23:59
4-Bromophenyl Phenyl Ether	ND		6.4	10	5	09/06/2017 23:59
Butylbenzyl Phthalate	ND		5.2	10	5	09/06/2017 23:59
4-Chloroaniline	ND		5.2	20	5	09/06/2017 23:59
4-Chloro-3-methylphenol	ND		4.8	10	5	09/06/2017 23:59
2-Chloronaphthalene	ND		6.4	10	5	09/06/2017 23:59
2-Chlorophenol	ND		5.6	10	5	09/06/2017 23:59
4-Chlorophenyl Phenyl Ether	ND		6.0	10	5	09/06/2017 23:59
Chrysene	ND		5.6	10	5	09/06/2017 23:59
Dibenzo (a,h) anthracene	ND		6.4	10	5	09/06/2017 23:59
Dibenzofuran	ND		5.2	10	5	09/06/2017 23:59
Di-n-butyl Phthalate	ND		5.2	10	5	09/06/2017 23:59
1,2-Dichlorobenzene	ND		4.8	10	5	09/06/2017 23:59
1,3-Dichlorobenzene	ND		5.6	10	5	09/06/2017 23:59
1,4-Dichlorobenzene	ND		5.2	10	5	09/06/2017 23:59
3,3-Dichlorobenzidine	ND		4.8	20	5	09/06/2017 23:59
2,4-Dichlorophenol	ND		5.2	10	5	09/06/2017 23:59
Diethyl Phthalate	ND		5.6	10	5	09/06/2017 23:59
2,4-Dimethylphenol	ND		5.2	10	5	09/06/2017 23:59
Dimethyl Phthalate	ND		5.6	10	5	09/06/2017 23:59
4,6-Dinitro-2-methylphenol	29	J	5.2	52	5	09/06/2017 23:59

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 3.5-4 feet	1709045-043A	Soil	08/31/2017 13:55	GC17 09061732.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		52	250	5	09/06/2017 23:59
2,4-Dinitrotoluene	ND		5.2	10	5	09/06/2017 23:59
2,6-Dinitrotoluene	ND		5.6	10	5	09/06/2017 23:59
Di-n-octyl Phthalate	ND		5.6	20	5	09/06/2017 23:59
1,2-Diphenylhydrazine	ND		6.4	10	5	09/06/2017 23:59
Fluoranthene	ND		5.2	10	5	09/06/2017 23:59
Fluorene	ND		5.6	10	5	09/06/2017 23:59
Hexachlorobenzene	ND		6.8	10	5	09/06/2017 23:59
Hexachlorobutadiene	ND		6.0	10	5	09/06/2017 23:59
Hexachlorocyclopentadiene	ND		29	52	5	09/06/2017 23:59
Hexachloroethane	ND		5.6	10	5	09/06/2017 23:59
Indeno (1,2,3-cd) pyrene	ND		5.6	10	5	09/06/2017 23:59
Isophorone	ND		4.8	10	5	09/06/2017 23:59
2-Methylnaphthalene	ND		5.6	10	5	09/06/2017 23:59
2-Methylphenol (o-Cresol)	ND		5.6	10	5	09/06/2017 23:59
3 & 4-Methylphenol (m,p-Cresol)	ND		4.8	10	5	09/06/2017 23:59
Naphthalene	ND		5.2	10	5	09/06/2017 23:59
2-Nitroaniline	ND		25	52	5	09/06/2017 23:59
3-Nitroaniline	ND		24	52	5	09/06/2017 23:59
4-Nitroaniline	ND		22	52	5	09/06/2017 23:59
Nitrobenzene	ND		5.6	10	5	09/06/2017 23:59
2-Nitrophenol	ND		26	52	5	09/06/2017 23:59
4-Nitrophenol	ND		16	52	5	09/06/2017 23:59
N-Nitrosodiphenylamine	ND		6.4	10	5	09/06/2017 23:59
N-Nitrosodi-n-propylamine	ND		5.2	10	5	09/06/2017 23:59
Pentachlorophenol	ND		13	52	5	09/06/2017 23:59
Phenanthrene	ND		5.6	10	5	09/06/2017 23:59
Phenol	ND		4.8	10	5	09/06/2017 23:59
Pyrene	ND		5.2	10	5	09/06/2017 23:59
Pyridine	ND		10	10	5	09/06/2017 23:59
1,2,4-Trichlorobenzene	ND		5.6	10	5	09/06/2017 23:59
2,4,5-Trichlorophenol	ND		4.8	10	5	09/06/2017 23:59
2,4,6-Trichlorophenol	ND		5.6	10	5	09/06/2017 23:59

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 3.5-4 feet	1709045-043A	Soil	08/31/2017 13:55	GC17 09061732.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
2-Fluorophenol	45			30-130		09/06/2017 23:59
Phenol-d5	25	S		30-130		09/06/2017 23:59
Nitrobenzene-d5	73			30-130		09/06/2017 23:59
2-Fluorobiphenyl	87			30-130		09/06/2017 23:59
2,4,6-Tribromophenol	25			16-130		09/06/2017 23:59
4-Terphenyl-d14	96			30-130		09/06/2017 23:59

Analyst(s): REB

Analytical Comments: a3,a4,c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 7.5-8 feet	1709045-044A	Soil	08/31/2017 14:02	GC17 09061733.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		2.2	4.0	2	09/07/2017 00:27
Acenaphthylene	ND		2.2	4.0	2	09/07/2017 00:27
Acetochlor	ND		4.0	4.0	2	09/07/2017 00:27
Anthracene	ND		2.2	4.0	2	09/07/2017 00:27
Benzidine	ND		3.7	21	2	09/07/2017 00:27
Benzo (a) anthracene	ND		2.2	4.0	2	09/07/2017 00:27
Benzo (a) pyrene	ND		2.2	4.0	2	09/07/2017 00:27
Benzo (b) fluoranthene	ND		2.2	4.0	2	09/07/2017 00:27
Benzo (g,h,i) perylene	ND		2.4	4.0	2	09/07/2017 00:27
Benzo (k) fluoranthene	ND		2.6	4.0	2	09/07/2017 00:27
Benzyl Alcohol	ND		8.2	21	2	09/07/2017 00:27
1,1-Biphenyl	ND		2.4	4.0	2	09/07/2017 00:27
Bis (2-chloroethoxy) Methane	ND		2.2	4.0	2	09/07/2017 00:27
Bis (2-chloroethyl) Ether	ND		2.1	4.0	2	09/07/2017 00:27
Bis (2-chloroisopropyl) Ether	ND		1.9	4.0	2	09/07/2017 00:27
Bis (2-ethylhexyl) Adipate	ND		4.0	4.0	2	09/07/2017 00:27
Bis (2-ethylhexyl) Phthalate	ND		2.1	4.0	2	09/07/2017 00:27
4-Bromophenyl Phenyl Ether	ND		2.6	4.0	2	09/07/2017 00:27
Butylbenzyl Phthalate	ND		2.1	4.0	2	09/07/2017 00:27
4-Chloroaniline	ND		2.1	8.0	2	09/07/2017 00:27
4-Chloro-3-methylphenol	ND		1.9	4.0	2	09/07/2017 00:27
2-Chloronaphthalene	ND		2.6	4.0	2	09/07/2017 00:27
2-Chlorophenol	ND		2.2	4.0	2	09/07/2017 00:27
4-Chlorophenyl Phenyl Ether	ND		2.4	4.0	2	09/07/2017 00:27
Chrysene	ND		2.2	4.0	2	09/07/2017 00:27
Dibenzo (a,h) anthracene	ND		2.6	4.0	2	09/07/2017 00:27
Dibenzofuran	ND		2.1	4.0	2	09/07/2017 00:27
Di-n-butyl Phthalate	ND		2.1	4.0	2	09/07/2017 00:27
1,2-Dichlorobenzene	ND		1.9	4.0	2	09/07/2017 00:27
1,3-Dichlorobenzene	ND		2.2	4.0	2	09/07/2017 00:27
1,4-Dichlorobenzene	ND		2.1	4.0	2	09/07/2017 00:27
3,3-Dichlorobenzidine	ND		1.9	8.0	2	09/07/2017 00:27
2,4-Dichlorophenol	ND		2.1	4.0	2	09/07/2017 00:27
Diethyl Phthalate	ND		2.2	4.0	2	09/07/2017 00:27
2,4-Dimethylphenol	ND		2.1	4.0	2	09/07/2017 00:27
Dimethyl Phthalate	ND		2.2	4.0	2	09/07/2017 00:27
4,6-Dinitro-2-methylphenol	12	J	2.1	21	2	09/07/2017 00:27

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 7.5-8 feet	1709045-044A	Soil	08/31/2017 14:02	GC17 09061733.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		21	100	2	09/07/2017 00:27
2,4-Dinitrotoluene	ND		2.1	4.0	2	09/07/2017 00:27
2,6-Dinitrotoluene	ND		2.2	4.0	2	09/07/2017 00:27
Di-n-octyl Phthalate	ND		2.2	8.0	2	09/07/2017 00:27
1,2-Diphenylhydrazine	ND		2.6	4.0	2	09/07/2017 00:27
Fluoranthene	ND		2.1	4.0	2	09/07/2017 00:27
Fluorene	ND		2.2	4.0	2	09/07/2017 00:27
Hexachlorobenzene	ND		2.7	4.0	2	09/07/2017 00:27
Hexachlorobutadiene	ND		2.4	4.0	2	09/07/2017 00:27
Hexachlorocyclopentadiene	ND		12	21	2	09/07/2017 00:27
Hexachloroethane	ND		2.2	4.0	2	09/07/2017 00:27
Indeno (1,2,3-cd) pyrene	ND		2.2	4.0	2	09/07/2017 00:27
Isophorone	ND		1.9	4.0	2	09/07/2017 00:27
2-Methylnaphthalene	ND		2.2	4.0	2	09/07/2017 00:27
2-Methylphenol (o-Cresol)	ND		2.2	4.0	2	09/07/2017 00:27
3 & 4-Methylphenol (m,p-Cresol)	ND		1.9	4.0	2	09/07/2017 00:27
Naphthalene	ND		2.1	4.0	2	09/07/2017 00:27
2-Nitroaniline	ND		9.9	21	2	09/07/2017 00:27
3-Nitroaniline	ND		9.4	21	2	09/07/2017 00:27
4-Nitroaniline	ND		8.8	21	2	09/07/2017 00:27
Nitrobenzene	ND		2.2	4.0	2	09/07/2017 00:27
2-Nitrophenol	ND		10	21	2	09/07/2017 00:27
4-Nitrophenol	ND		6.6	21	2	09/07/2017 00:27
N-Nitrosodiphenylamine	ND		2.6	4.0	2	09/07/2017 00:27
N-Nitrosodi-n-propylamine	ND		2.1	4.0	2	09/07/2017 00:27
Pentachlorophenol	ND		5.2	21	2	09/07/2017 00:27
Phenanthrene	ND		2.2	4.0	2	09/07/2017 00:27
Phenol	ND		1.9	4.0	2	09/07/2017 00:27
Pyrene	ND		2.1	4.0	2	09/07/2017 00:27
Pyridine	ND		4.0	4.0	2	09/07/2017 00:27
1,2,4-Trichlorobenzene	ND		2.2	4.0	2	09/07/2017 00:27
2,4,5-Trichlorophenol	ND		1.9	4.0	2	09/07/2017 00:27
2,4,6-Trichlorophenol	ND		2.2	4.0	2	09/07/2017 00:27

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 7.5-8 feet	1709045-044A	Soil	08/31/2017 14:02	GC17 09061733.D	144898

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	51			30-130		09/07/2017 00:27
Phenol-d5	33			30-130		09/07/2017 00:27
Nitrobenzene-d5	60			30-130		09/07/2017 00:27
2-Fluorobiphenyl	81			30-130		09/07/2017 00:27
2,4,6-Tribromophenol	31			16-130		09/07/2017 00:27
4-Terphenyl-d14	97			30-130		09/07/2017 00:27

Analyst(s): REB

Analytical Comments: a3,a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8	1709045-005A	Water	08/30/2017 10:53	GC17 09061737.D	144895	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.40	3.3	1	09/07/2017 02:18
Acenaphthylene	ND		0.43	3.3	1	09/07/2017 02:18
Acetochlor	ND		1.7	3.3	1	09/07/2017 02:18
Anthracene	ND		0.25	3.3	1	09/07/2017 02:18
Benzidine	ND		0.48	17	1	09/07/2017 02:18
Benzo (a) anthracene	ND		0.26	3.3	1	09/07/2017 02:18
Benzo (a) pyrene	ND		0.28	3.3	1	09/07/2017 02:18
Benzo (b) fluoranthene	ND		0.26	3.3	1	09/07/2017 02:18
Benzo (g,h,i) perylene	ND		0.30	3.3	1	09/07/2017 02:18
Benzo (k) fluoranthene	ND		0.33	3.3	1	09/07/2017 02:18
Benzyl Alcohol	ND		2.5	17	1	09/07/2017 02:18
1,1-Biphenyl	ND		0.43	3.3	1	09/07/2017 02:18
Bis (2-chloroethoxy) Methane	ND		0.50	3.3	1	09/07/2017 02:18
Bis (2-chloroethyl) Ether	ND		0.40	3.3	1	09/07/2017 02:18
Bis (2-chloroisopropyl) Ether	0.50	J	0.46	3.3	1	09/07/2017 02:18
Bis (2-ethylhexyl) Adipate	ND		3.3	3.3	1	09/07/2017 02:18
Bis (2-ethylhexyl) Phthalate	ND		0.56	6.6	1	09/07/2017 02:18
4-Bromophenyl Phenyl Ether	ND		0.28	17	1	09/07/2017 02:18
Butylbenzyl Phthalate	ND		0.48	3.3	1	09/07/2017 02:18
4-Chloroaniline	ND		0.54	6.6	1	09/07/2017 02:18
4-Chloro-3-methylphenol	ND		0.45	17	1	09/07/2017 02:18
2-Chloronaphthalene	ND		0.41	3.3	1	09/07/2017 02:18
2-Chlorophenol	ND		0.43	3.3	1	09/07/2017 02:18
4-Chlorophenyl Phenyl Ether	ND		0.33	3.3	1	09/07/2017 02:18
Chrysene	ND		0.30	3.3	1	09/07/2017 02:18
Dibenzo (a,h) anthracene	ND		0.31	3.3	1	09/07/2017 02:18
Dibenzofuran	ND		0.35	3.3	1	09/07/2017 02:18
Di-n-butyl Phthalate	ND		0.50	3.3	1	09/07/2017 02:18
1,2-Dichlorobenzene	ND		0.38	3.3	1	09/07/2017 02:18
1,3-Dichlorobenzene	ND		0.36	3.3	1	09/07/2017 02:18
1,4-Dichlorobenzene	ND		0.36	3.3	1	09/07/2017 02:18
3,3-Dichlorobenzidine	ND		0.23	6.6	1	09/07/2017 02:18
2,4-Dichlorophenol	ND		0.46	3.3	1	09/07/2017 02:18
Diethyl Phthalate	ND		0.25	3.3	1	09/07/2017 02:18
2,4-Dimethylphenol	ND		0.16	3.3	1	09/07/2017 02:18
Dimethyl Phthalate	ND		0.30	3.3	1	09/07/2017 02:18
4,6-Dinitro-2-methylphenol	4.8	J	1.6	17	1	09/07/2017 02:18

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8	1709045-005A	Water	08/30/2017 10:53	GC17 09061737.D	144895	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.4	41	1	09/07/2017 02:18
2,4-Dinitrotoluene	0.54	J	0.28	3.3	1	09/07/2017 02:18
2,6-Dinitrotoluene	ND		0.33	3.3	1	09/07/2017 02:18
Di-n-octyl Phthalate	ND		0.45	3.3	1	09/07/2017 02:18
1,2-Diphenylhydrazine	ND		0.26	3.3	1	09/07/2017 02:18
Fluoranthene	ND		0.30	3.3	1	09/07/2017 02:18
Fluorene	ND		0.33	3.3	1	09/07/2017 02:18
Hexachlorobenzene	ND		0.30	3.3	1	09/07/2017 02:18
Hexachlorobutadiene	ND		0.40	3.3	1	09/07/2017 02:18
Hexachlorocyclopentadiene	ND		2.0	17	1	09/07/2017 02:18
Hexachloroethane	ND		0.48	3.3	1	09/07/2017 02:18
Indeno (1,2,3-cd) pyrene	ND		0.31	3.3	1	09/07/2017 02:18
Isophorone	ND		0.53	3.3	1	09/07/2017 02:18
2-Methylnaphthalene	ND		0.48	3.3	1	09/07/2017 02:18
2-Methylphenol (o-Cresol)	ND		0.31	3.3	1	09/07/2017 02:18
3 & 4-Methylphenol (m,p-Cresol)	ND		0.31	3.3	1	09/07/2017 02:18
Naphthalene	ND		0.40	3.3	1	09/07/2017 02:18
2-Nitroaniline	ND		2.1	17	1	09/07/2017 02:18
3-Nitroaniline	ND		2.0	17	1	09/07/2017 02:18
4-Nitroaniline	ND		2.0	17	1	09/07/2017 02:18
Nitrobenzene	ND		0.53	3.3	1	09/07/2017 02:18
2-Nitrophenol	ND		2.3	17	1	09/07/2017 02:18
4-Nitrophenol	ND		2.8	17	1	09/07/2017 02:18
N-Nitrosodiphenylamine	ND		0.30	3.3	1	09/07/2017 02:18
N-Nitrosodi-n-propylamine	ND		0.58	3.3	1	09/07/2017 02:18
Pentachlorophenol	ND		0.83	17	1	09/07/2017 02:18
Phenanthrene	ND		0.36	3.3	1	09/07/2017 02:18
Phenol	ND		0.56	3.3	1	09/07/2017 02:18
Pyrene	ND		0.40	3.3	1	09/07/2017 02:18
Pyridine	ND		3.3	3.3	1	09/07/2017 02:18
1,2,4-Trichlorobenzene	ND		0.36	3.3	1	09/07/2017 02:18
2,4,5-Trichlorophenol	ND		0.35	3.3	1	09/07/2017 02:18
2,4,6-Trichlorophenol	ND		0.38	3.3	1	09/07/2017 02:18

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8	1709045-005A	Water	08/30/2017 10:53	GC17 09061737.D	144895

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	36			8-130		09/07/2017 02:18
Phenol-d5	31			5-130		09/07/2017 02:18
Nitrobenzene-d5	71			20-140		09/07/2017 02:18
2-Fluorobiphenyl	66			40-140		09/07/2017 02:18
2,4,6-Tribromophenol	57			16-180		09/07/2017 02:18
4-Terphenyl-d14	95			40-170		09/07/2017 02:18

Analyst(s): REB

Analytical Comments: a19,b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-9	1709045-010A	Water	08/30/2017 10:15	GC17 09061738.D	144895	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.39	3.2	1	09/07/2017 02:45
Acenaphthylene	ND		0.42	3.2	1	09/07/2017 02:45
Acetochlor	ND		1.6	3.2	1	09/07/2017 02:45
Anthracene	ND		0.24	3.2	1	09/07/2017 02:45
Benzidine	ND		0.47	16	1	09/07/2017 02:45
Benzo (a) anthracene	ND		0.26	3.2	1	09/07/2017 02:45
Benzo (a) pyrene	ND		0.28	3.2	1	09/07/2017 02:45
Benzo (b) fluoranthene	ND		0.26	3.2	1	09/07/2017 02:45
Benzo (g,h,i) perylene	ND		0.29	3.2	1	09/07/2017 02:45
Benzo (k) fluoranthene	ND		0.32	3.2	1	09/07/2017 02:45
Benzyl Alcohol	ND		2.4	16	1	09/07/2017 02:45
1,1-Biphenyl	ND		0.42	3.2	1	09/07/2017 02:45
Bis (2-chloroethoxy) Methane	ND		0.49	3.2	1	09/07/2017 02:45
Bis (2-chloroethyl) Ether	ND		0.39	3.2	1	09/07/2017 02:45
Bis (2-chloroisopropyl) Ether	0.60	J	0.45	3.2	1	09/07/2017 02:45
Bis (2-ethylhexyl) Adipate	ND		3.2	3.2	1	09/07/2017 02:45
Bis (2-ethylhexyl) Phthalate	ND		0.55	6.5	1	09/07/2017 02:45
4-Bromophenyl Phenyl Ether	ND		0.28	16	1	09/07/2017 02:45
Butylbenzyl Phthalate	ND		0.47	3.2	1	09/07/2017 02:45
4-Chloroaniline	ND		0.53	6.5	1	09/07/2017 02:45
4-Chloro-3-methylphenol	ND		0.44	16	1	09/07/2017 02:45
2-Chloronaphthalene	ND		0.41	3.2	1	09/07/2017 02:45
2-Chlorophenol	ND		0.42	3.2	1	09/07/2017 02:45
4-Chlorophenyl Phenyl Ether	ND		0.32	3.2	1	09/07/2017 02:45
Chrysene	ND		0.29	3.2	1	09/07/2017 02:45
Dibenzo (a,h) anthracene	ND		0.31	3.2	1	09/07/2017 02:45
Dibenzofuran	ND		0.34	3.2	1	09/07/2017 02:45
Di-n-butyl Phthalate	ND		0.49	3.2	1	09/07/2017 02:45
1,2-Dichlorobenzene	ND		0.37	3.2	1	09/07/2017 02:45
1,3-Dichlorobenzene	ND		0.36	3.2	1	09/07/2017 02:45
1,4-Dichlorobenzene	ND		0.36	3.2	1	09/07/2017 02:45
3,3-Dichlorobenzidine	ND		0.23	6.5	1	09/07/2017 02:45
2,4-Dichlorophenol	ND		0.45	3.2	1	09/07/2017 02:45
Diethyl Phthalate	ND		0.24	3.2	1	09/07/2017 02:45
2,4-Dimethylphenol	ND		0.16	3.2	1	09/07/2017 02:45
Dimethyl Phthalate	ND		0.29	3.2	1	09/07/2017 02:45
4,6-Dinitro-2-methylphenol	4.8	J	1.6	16	1	09/07/2017 02:45

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-9	1709045-010A	Water	08/30/2017 10:15	GC17 09061738.D	144895	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.4	41	1	09/07/2017 02:45
2,4-Dinitrotoluene	0.30	J	0.28	3.2	1	09/07/2017 02:45
2,6-Dinitrotoluene	ND		0.32	3.2	1	09/07/2017 02:45
Di-n-octyl Phthalate	ND		0.44	3.2	1	09/07/2017 02:45
1,2-Diphenylhydrazine	ND		0.26	3.2	1	09/07/2017 02:45
Fluoranthene	ND		0.29	3.2	1	09/07/2017 02:45
Fluorene	ND		0.32	3.2	1	09/07/2017 02:45
Hexachlorobenzene	ND		0.29	3.2	1	09/07/2017 02:45
Hexachlorobutadiene	ND		0.39	3.2	1	09/07/2017 02:45
Hexachlorocyclopentadiene	ND		1.9	16	1	09/07/2017 02:45
Hexachloroethane	ND		0.47	3.2	1	09/07/2017 02:45
Indeno (1,2,3-cd) pyrene	ND		0.31	3.2	1	09/07/2017 02:45
Isophorone	ND		0.52	3.2	1	09/07/2017 02:45
2-Methylnaphthalene	ND		0.47	3.2	1	09/07/2017 02:45
2-Methylphenol (o-Cresol)	ND		0.31	3.2	1	09/07/2017 02:45
3 & 4-Methylphenol (m,p-Cresol)	ND		0.31	3.2	1	09/07/2017 02:45
Naphthalene	ND		0.39	3.2	1	09/07/2017 02:45
2-Nitroaniline	ND		2.1	16	1	09/07/2017 02:45
3-Nitroaniline	ND		1.9	16	1	09/07/2017 02:45
4-Nitroaniline	ND		1.9	16	1	09/07/2017 02:45
Nitrobenzene	ND		0.52	3.2	1	09/07/2017 02:45
2-Nitrophenol	ND		2.3	16	1	09/07/2017 02:45
4-Nitrophenol	ND		2.8	16	1	09/07/2017 02:45
N-Nitrosodiphenylamine	ND		0.29	3.2	1	09/07/2017 02:45
N-Nitrosodi-n-propylamine	ND		0.57	3.2	1	09/07/2017 02:45
Pentachlorophenol	0.83	J	0.81	16	1	09/07/2017 02:45
Phenanthrene	ND		0.36	3.2	1	09/07/2017 02:45
Phenol	ND		0.55	3.2	1	09/07/2017 02:45
Pyrene	ND		0.39	3.2	1	09/07/2017 02:45
Pyridine	ND		3.2	3.2	1	09/07/2017 02:45
1,2,4-Trichlorobenzene	ND		0.36	3.2	1	09/07/2017 02:45
2,4,5-Trichlorophenol	ND		0.34	3.2	1	09/07/2017 02:45
2,4,6-Trichlorophenol	ND		0.37	3.2	1	09/07/2017 02:45

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9	1709045-010A	Water	08/30/2017 10:15	GC17 09061738.D	144895

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	11			8-130		09/07/2017 02:45
Phenol-d5	5			5-130		09/07/2017 02:45
Nitrobenzene-d5	78			20-140		09/07/2017 02:45
2-Fluorobiphenyl	73			40-140		09/07/2017 02:45
2,4,6-Tribromophenol	44			16-180		09/07/2017 02:45
4-Terphenyl-d14	98			40-170		09/07/2017 02:45

Analyst(s): REB

Analytical Comments: a19,b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11	1709045-020A	Water	08/30/2017 11:31	GC17 09061739.D	144895	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.29	2.4	1	09/07/2017 03:13
Acenaphthylene	ND		0.31	2.4	1	09/07/2017 03:13
Acetochlor	ND		1.2	2.4	1	09/07/2017 03:13
Anthracene	ND		0.18	2.4	1	09/07/2017 03:13
Benzidine	ND		0.35	12	1	09/07/2017 03:13
Benzo (a) anthracene	ND		0.19	2.4	1	09/07/2017 03:13
Benzo (a) pyrene	ND		0.21	2.4	1	09/07/2017 03:13
Benzo (b) fluoranthene	ND		0.19	2.4	1	09/07/2017 03:13
Benzo (g,h,i) perylene	ND		0.22	2.4	1	09/07/2017 03:13
Benzo (k) fluoranthene	ND		0.24	2.4	1	09/07/2017 03:13
Benzyl Alcohol	ND		1.8	12	1	09/07/2017 03:13
1,1-Biphenyl	ND		0.31	2.4	1	09/07/2017 03:13
Bis (2-chloroethoxy) Methane	ND		0.36	2.4	1	09/07/2017 03:13
Bis (2-chloroethyl) Ether	ND		0.29	2.4	1	09/07/2017 03:13
Bis (2-chloroisopropyl) Ether	ND		0.34	2.4	1	09/07/2017 03:13
Bis (2-ethylhexyl) Adipate	ND		2.4	2.4	1	09/07/2017 03:13
Bis (2-ethylhexyl) Phthalate	ND		0.41	4.8	1	09/07/2017 03:13
4-Bromophenyl Phenyl Ether	ND		0.21	12	1	09/07/2017 03:13
Butylbenzyl Phthalate	ND		0.35	2.4	1	09/07/2017 03:13
4-Chloroaniline	ND		0.40	4.8	1	09/07/2017 03:13
4-Chloro-3-methylphenol	ND		0.33	12	1	09/07/2017 03:13
2-Chloronaphthalene	ND		0.30	2.4	1	09/07/2017 03:13
2-Chlorophenol	ND		0.31	2.4	1	09/07/2017 03:13
4-Chlorophenyl Phenyl Ether	ND		0.24	2.4	1	09/07/2017 03:13
Chrysene	ND		0.22	2.4	1	09/07/2017 03:13
Dibenzo (a,h) anthracene	ND		0.23	2.4	1	09/07/2017 03:13
Dibenzofuran	ND		0.25	2.4	1	09/07/2017 03:13
Di-n-butyl Phthalate	ND		0.36	2.4	1	09/07/2017 03:13
1,2-Dichlorobenzene	ND		0.28	2.4	1	09/07/2017 03:13
1,3-Dichlorobenzene	ND		0.27	2.4	1	09/07/2017 03:13
1,4-Dichlorobenzene	ND		0.27	2.4	1	09/07/2017 03:13
3,3-Dichlorobenzidine	ND		0.17	4.8	1	09/07/2017 03:13
2,4-Dichlorophenol	ND		0.34	2.4	1	09/07/2017 03:13
Diethyl Phthalate	ND		0.18	2.4	1	09/07/2017 03:13
2,4-Dimethylphenol	ND		0.12	2.4	1	09/07/2017 03:13
Dimethyl Phthalate	ND		0.22	2.4	1	09/07/2017 03:13
4,6-Dinitro-2-methylphenol	3.6	J	1.2	12	1	09/07/2017 03:13

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-11	1709045-020A	Water	08/30/2017 11:31	GC17 09061739.D	144895	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.0	30	1	09/07/2017 03:13
2,4-Dinitrotoluene	0.24	J	0.21	2.4	1	09/07/2017 03:13
2,6-Dinitrotoluene	ND		0.24	2.4	1	09/07/2017 03:13
Di-n-octyl Phthalate	ND		0.33	2.4	1	09/07/2017 03:13
1,2-Diphenylhydrazine	ND		0.19	2.4	1	09/07/2017 03:13
Fluoranthene	ND		0.22	2.4	1	09/07/2017 03:13
Fluorene	ND		0.24	2.4	1	09/07/2017 03:13
Hexachlorobenzene	ND		0.22	2.4	1	09/07/2017 03:13
Hexachlorobutadiene	ND		0.29	2.4	1	09/07/2017 03:13
Hexachlorocyclopentadiene	ND		1.4	12	1	09/07/2017 03:13
Hexachloroethane	ND		0.35	2.4	1	09/07/2017 03:13
Indeno (1,2,3-cd) pyrene	ND		0.23	2.4	1	09/07/2017 03:13
Isophorone	ND		0.39	2.4	1	09/07/2017 03:13
2-Methylnaphthalene	ND		0.35	2.4	1	09/07/2017 03:13
2-Methylphenol (o-Cresol)	ND		0.23	2.4	1	09/07/2017 03:13
3 & 4-Methylphenol (m,p-Cresol)	ND		0.23	2.4	1	09/07/2017 03:13
Naphthalene	ND		0.29	2.4	1	09/07/2017 03:13
2-Nitroaniline	ND		1.6	12	1	09/07/2017 03:13
3-Nitroaniline	ND		1.4	12	1	09/07/2017 03:13
4-Nitroaniline	ND		1.4	12	1	09/07/2017 03:13
Nitrobenzene	ND		0.39	2.4	1	09/07/2017 03:13
2-Nitrophenol	ND		1.7	12	1	09/07/2017 03:13
4-Nitrophenol	ND		2.1	12	1	09/07/2017 03:13
N-Nitrosodiphenylamine	ND		0.22	2.4	1	09/07/2017 03:13
N-Nitrosodi-n-propylamine	ND		0.42	2.4	1	09/07/2017 03:13
Pentachlorophenol	1.2	J	0.60	12	1	09/07/2017 03:13
Phenanthrene	ND		0.27	2.4	1	09/07/2017 03:13
Phenol	0.42	J	0.41	2.4	1	09/07/2017 03:13
Pyrene	ND		0.29	2.4	1	09/07/2017 03:13
Pyridine	ND		2.4	2.4	1	09/07/2017 03:13
1,2,4-Trichlorobenzene	ND		0.27	2.4	1	09/07/2017 03:13
2,4,5-Trichlorophenol	ND		0.25	2.4	1	09/07/2017 03:13
2,4,6-Trichlorophenol	ND		0.28	2.4	1	09/07/2017 03:13

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/5/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1709045-020A	Water	08/30/2017 11:31	GC17 09061739.D	144895

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	31			8-130		09/07/2017 03:13
Phenol-d5	26			5-130		09/07/2017 03:13
Nitrobenzene-d5	76			20-140		09/07/2017 03:13
2-Fluorobiphenyl	75			40-140		09/07/2017 03:13
2,4,6-Tribromophenol	60			16-180		09/07/2017 03:13
4-Terphenyl-d14	92			40-170		09/07/2017 03:13

Analyst(s): REB

Analytical Comments: a19,b1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 3.5-4 feet	1709045-003A	Soil	08/30/2017 10:43	GC11B 09051753.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	6.4	4.3	5.0	5	09/06/2017 04:17
TPH-Motor Oil (C18-C36)	93	18	25	5	09/06/2017 04:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	104	78-126			09/06/2017 04:17
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 7.5-8 feet	1709045-004A	Soil	08/30/2017 10:45	GC11B 09051773.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	69	8.6	10	10	09/06/2017 10:47
TPH-Motor Oil (C18-C36)	430	35	50	10	09/06/2017 10:47
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	117	78-126			09/06/2017 10:47
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 3.5-4 feet	1709045-008A	Soil	08/30/2017 09:58	GC11B 09061753.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 10:17
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 10:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	96	78-126			09/07/2017 10:17
<u>Analyst(s):</u> TK					

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 7.5-8 feet	1709045-009A	Soil	08/30/2017 10:02	GC6A 09061758.D	144759

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 06:02
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 06:02

Surrogates	REC (%)	Limits
C9	95	78-126

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-8 feet	1709045-014A	Soil	08/30/2017 12:10	GC11B 09061715.D	144759

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	76	4.3	5.0	5	09/06/2017 21:56
TPH-Motor Oil (C18-C36)	210	18	25	5	09/06/2017 21:56

Surrogates	REC (%)	Limits
C9	110	78-126

Analyst(s): TK

Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 7.5-8 feet	1709045-015A	Soil	08/30/2017 12:13	GC11B 09051743.D	144759

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	74	0.86	1.0	1	09/06/2017 01:02
TPH-Motor Oil (C18-C36)	82	3.5	5.0	1	09/06/2017 01:02

Surrogates	REC (%)	Limits
C9	103	78-126

Analyst(s): TK

Analytical Comments: e7,e2

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 3.5-4 feet	1709045-018A	Soil	08/30/2017 11:15	GC11B 09061725.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	230	86	100	100	09/07/2017 01:11
TPH-Motor Oil (C18-C36)	2900	350	500	100	09/07/2017 01:11
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
C26	261	S	79-117		09/07/2017 01:11
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2,c1				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 7.5-8 feet	1709045-019A	Soil	08/30/2017 11:18	GC11B 09081731.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2.8	1.7	2.0	2	09/09/2017 02:55
TPH-Motor Oil (C18-C36)	56	7.0	10	2	09/09/2017 02:55
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	98	78-126			09/09/2017 02:55
<u>Analyst(s):</u> TD	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 3.5-4 feet	1709045-023A	Soil	08/30/2017 13:55	GC39A 09121710.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2.3	0.86	1.0	1	09/12/2017 13:32
TPH-Motor Oil (C18-C36)	6.0	3.5	5.0	1	09/12/2017 13:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	90	78-126			09/12/2017 13:32
<u>Analyst(s):</u> LT	<u>Analytical Comments:</u> e2,e7				

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-12, 7.5-8 feet	1709045-024A	Soil	08/30/2017 14:00	GC11B 09081713.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	27	8.6	10	10	09/08/2017 21:04
TPH-Motor Oil (C18-C36)	140	35	50	10	09/08/2017 21:04
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	126	78-126			09/08/2017 21:04
<u>Analyst(s):</u> TD	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 3.5-4 feet	1709045-027A	Soil	08/30/2017 13:40	GC11B 09061709.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/06/2017 19:59
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/06/2017 19:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	92	78-126			09/06/2017 19:59
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13, 7.5-8 feet	1709045-028A	Soil	08/30/2017 13:45	GC6A 09061764.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 07:59
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 07:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	94	78-126			09/07/2017 07:59
<u>Analyst(s):</u> TK					

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4 feet	1709045-031A	Soil	08/30/2017 13:27	GC6A 09061746.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 02:10
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 02:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	90	78-126			09/07/2017 02:10
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 7.5-8 feet	1709045-032A	Soil	08/30/2017 13:32	GC6A 09061752.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.1	0.86	1.0	1	09/07/2017 04:06
TPH-Motor Oil (C18-C36)	7.0	3.5	5.0	1	09/07/2017 04:06
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	94	78-126			09/07/2017 04:06
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4 feet	1709045-035A	Soil	08/30/2017 13:05	GC9a 09111720.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.0	0.86	1.0	1	09/11/2017 15:51
TPH-Motor Oil (C18-C36)	8.7	3.5	5.0	1	09/11/2017 15:51
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	118	78-126			09/11/2017 15:51
<u>Analyst(s):</u> TD	<u>Analytical Comments:</u> e7,e2				

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7.5-8 feet	1709045-036A	Soil	08/30/2017 13:11	GC11B 09071711.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 19:27
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 19:27
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	93	78-126			09/07/2017 19:27
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4 feet	1709045-039A	Soil	08/31/2017 11:04	GC11B 09051761.D	144759
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	61	8.6	10	10	09/06/2017 06:53
TPH-Motor Oil (C18-C36)	330	35	50	10	09/06/2017 06:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C26	108	79-117			09/06/2017 06:53
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-16, 7.5-8 feet	1709045-040A	Soil	08/31/2017 11:10	GC11B 09071709.D	144821	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	0.93	J	0.86	1.0	1	09/07/2017 18:48
TPH-Motor Oil (C18-C36)	4.1	J	3.5	5.0	1	09/07/2017 18:48
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>				
C9	98	78-126			09/07/2017 18:48	
<u>Analyst(s):</u> TK						

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 3.5-4 feet	1709045-043A	Soil	08/31/2017 13:55	GC11B 09051735.D	144821

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	5.9	4.3	5.0	5	09/05/2017 22:26
TPH-Motor Oil (C18-C36)	58	18	25	5	09/05/2017 22:26

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C26	101	79-117	09/05/2017 22:26

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 7.5-8 feet	1709045-044A	Soil	08/31/2017 14:02	GC11B 09071733.D	144821

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	14	1.7	2.0	2	09/08/2017 02:35
TPH-Motor Oil (C18-C36)	100	7.0	10	2	09/08/2017 02:35

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	101	78-126	09/08/2017 02:35

Analyst(s): TK Analytical Comments: e7,e2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17-10/20/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-8	1709045-005D	Water	08/30/2017 10:53	GC11A 09061734.D	144766	
<u>Analytes</u>		<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)		110	90	100	1	09/07/2017 03:47
TPH-Motor Oil (C18-C36)		710	310	500	1	09/07/2017 03:47
<u>Surrogates</u>		<u>REC (%)</u>	<u>Limits</u>			
C9		81	61-139			09/07/2017 03:47
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,a4,b1			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID		
B-9	1709045-010D	Water	08/30/2017 10:32	GC11B 10201717.D	147367		
<u>Analytes</u>		<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)		62	H	45	50	1	10/20/2017 16:02
TPH-Motor Oil (C18-C36)		ND	H	150	250	1	10/20/2017 16:02
<u>Surrogates</u>		<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
C9		89	H	61-139			10/20/2017 16:02
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2/e3,b1				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID		
B-11	1709045-020D	Water	08/30/2017 11:52	GC11B 10201719.D	147367		
<u>Analytes</u>		<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)		ND	H	45	50	1	10/20/2017 16:58
TPH-Motor Oil (C18-C36)		200	JH	150	250	1	10/20/2017 16:58
<u>Surrogates</u>		<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>			
C9		93	H	61-139			10/20/2017 16:58
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> b1				



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 3.5-4 feet	1709045-003A	Soil	08/30/2017 10:43	GC11B 09051755.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	12	8.6	10	10	09/06/2017 04:56
TPH-Motor Oil (C18-C36)	180	35	50	10	09/06/2017 04:56
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	125	78-126			09/06/2017 04:56
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8, 7.5-8 feet	1709045-004A	Soil	08/30/2017 10:45	GC11B 09051775.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	82	8.6	10	10	09/06/2017 11:26
TPH-Motor Oil (C18-C36)	640	35	50	10	09/06/2017 11:26
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C26	98	79-117			09/06/2017 11:26
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 3.5-4 feet	1709045-008A	Soil	08/30/2017 09:58	GC11B 09061755.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 10:56
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 10:56
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	100	78-126			09/07/2017 10:56
<u>Analyst(s):</u> TK					

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9, 7.5-8 feet	1709045-009A	Soil	08/30/2017 10:02	GC6A 09061760.D	144807
<u>Analytes</u>					
	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 06:41
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 06:41
<u>Surrogates</u>					
	<u>REC (%)</u>	<u>Limits</u>			
C9	95	78-126			09/07/2017 06:41
<u>Analyst(s):</u> TK					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 3.5-8 feet	1709045-014A	Soil	08/30/2017 12:10	GC11B 09061717.D	144807
<u>Analytes</u>					
	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	89	4.3	5.0	5	09/06/2017 22:35
TPH-Motor Oil (C18-C36)	330	18	25	5	09/06/2017 22:35
<u>Surrogates</u>					
	<u>REC (%)</u>	<u>Limits</u>			
C9	99	78-126			09/06/2017 22:35
<u>Analyst(s):</u> TK					
<u>Analytical Comments:</u> e7,e2					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-10, 7.5-8 feet	1709045-015A	Soil	08/30/2017 12:13	GC11B 09051745.D	144807
<u>Analytes</u>					
	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	87	0.86	1.0	1	09/06/2017 01:41
TPH-Motor Oil (C18-C36)	110	3.5	5.0	1	09/06/2017 01:41
<u>Surrogates</u>					
	<u>REC (%)</u>	<u>Limits</u>			
C9	95	78-126			09/06/2017 01:41
<u>Analyst(s):</u> TK					
<u>Analytical Comments:</u> e7,e2					

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 3.5-4 feet	1709045-018A	Soil	08/30/2017 11:15	GC11B 09061727.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	270	170	200	200	09/07/2017 01:50
TPH-Motor Oil (C18-C36)	4400	700	1000	200	09/07/2017 01:50
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
C26	225	S	79-117		09/07/2017 01:50
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,c1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11, 7.5-8 feet	1709045-019A	Soil	08/30/2017 11:18	GC11B 09071759.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	6.1	4.3	5.0	5	09/08/2017 11:02
TPH-Motor Oil (C18-C36)	100	18	25	5	09/08/2017 11:02
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	106	78-126			09/08/2017 11:02
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-12, 3.5-4 feet	1709045-023A	Soil	08/30/2017 13:55	GC11B 09061749.D	144807	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	1.0	J	0.86	1.0	1	09/07/2017 08:59
TPH-Motor Oil (C18-C36)	5.5		3.5	5.0	1	09/07/2017 08:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>				
C9	90	78-126			09/07/2017 08:59	
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7			

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-12, 7.5-8 feet	1709045-024A	Soil	08/30/2017 14:00	GC11B 09081715.D	144807	
Analytes						
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	37		17	20	20	09/08/2017 21:43
TPH-Motor Oil (C18-C36)	250		70	100	20	09/08/2017 21:43
Surrogates						
	<u>REC (%)</u>		<u>Limits</u>			<u>Date Analyzed</u>
C26	114		79-117			09/08/2017 21:43
Analyst(s): TD			Analytical Comments: e7,e2			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-13, 3.5-4 feet	1709045-027A	Soil	08/30/2017 13:40	GC11B 09061711.D	144807	
Analytes						
	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	0.86	J	0.86	1.0	1	09/06/2017 20:38
TPH-Motor Oil (C18-C36)	6.5		3.5	5.0	1	09/06/2017 20:38
Surrogates						
	<u>REC (%)</u>		<u>Limits</u>			<u>Date Analyzed</u>
C9	97		78-126			09/06/2017 20:38
Analyst(s): TK			Analytical Comments: e7			

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
B-13, 7.5-8 feet	1709045-028A	Soil	08/30/2017 13:45	GC6A 09061766.D	144807	
Analytes						
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		0.86	1.0	1	09/07/2017 08:37
TPH-Motor Oil (C18-C36)	ND		3.5	5.0	1	09/07/2017 08:37
Surrogates						
	<u>REC (%)</u>		<u>Limits</u>			<u>Date Analyzed</u>
C9	92		78-126			09/07/2017 08:37
Analyst(s): TK						

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 3.5-4 feet	1709045-031A	Soil	08/30/2017 13:27	GC6A 09061748.D	144807

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/07/2017 02:48
TPH-Motor Oil (C18-C36)	ND	3.5	5.0	1	09/07/2017 02:48

Surrogates	REC (%)	Limits
C9	93	78-126

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-14, 7.5-8 feet	1709045-032A	Soil	08/30/2017 13:32	GC6A 09061754.D	144807

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.5	0.86	1.0	1	09/07/2017 04:45
TPH-Motor Oil (C18-C36)	9.1	3.5	5.0	1	09/07/2017 04:45

Surrogates	REC (%)	Limits
C9	93	78-126

Analyst(s): TK

Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 3.5-4 feet	1709045-035A	Soil	08/30/2017 13:05	GC9a 09111722.D	144807

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.2	0.86	1.0	1	09/11/2017 16:29
TPH-Motor Oil (C18-C36)	14	3.5	5.0	1	09/11/2017 16:29

Surrogates	REC (%)	Limits
C9	108	78-126

Analyst(s): TD

Analytical Comments: e7,e2

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-15, 7.5-8 feet	1709045-036A	Soil	08/30/2017 13:11	GC11B 09051789.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/06/2017 16:00
TPH-Motor Oil (C18-C36)	5.2	3.5	5.0	1	09/06/2017 16:00
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	95	78-126			09/06/2017 16:00
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 3.5-4 feet	1709045-039A	Soil	08/31/2017 11:04	GC11B 09051763.D	144807
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	74	8.6	10	10	09/06/2017 07:32
TPH-Motor Oil (C18-C36)	570	35	50	10	09/06/2017 07:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C26	98	79-117			09/06/2017 07:32
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7,e2				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16, 7.5-8 feet	1709045-040A	Soil	08/31/2017 11:10	GC6B 09051721.D	144822
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/05/2017 19:03
TPH-Motor Oil (C18-C36)	5.4	3.5	5.0	1	09/05/2017 19:03
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
C9	98	78-126			09/05/2017 19:03
<u>Analyst(s):</u> TK	<u>Analytical Comments:</u> e7				

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 3.5-4 feet	1709045-043A	Soil	08/31/2017 13:55	GC11B 09051737.D	144822

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	7.9	4.3	5.0	5	09/05/2017 23:05
TPH-Motor Oil (C18-C36)	110	18	25	5	09/05/2017 23:05

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C26	96	79-117	09/05/2017 23:05

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1, 7.5-8 feet	1709045-044A	Soil	08/31/2017 14:02	GC11B 09071735.D	144822

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	12	4.3	5.0	5	09/08/2017 03:14
TPH-Motor Oil (C18-C36)	160	18	25	5	09/08/2017 03:14

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
C9	102	78-126	09/08/2017 03:14

Analyst(s): TK Analytical Comments: e7,e2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/1/17 15:00
Date Prepared: 9/1/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8	1709045-005E	Water	08/30/2017 10:53	GC11A 09061736.D	144791
<u>Analytes</u>					
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>
TPH-Diesel (C10-C23)	160		90	100	1
TPH-Motor Oil (C18-C36)	1500		310	500	1
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
C9	89		61-139		09/07/2017 04:26
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e7,e2,a4,b1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9	1709045-010E	Water	08/30/2017 10:32	GC11A 09061748.D	144791
<u>Analytes</u>					
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>
TPH-Diesel (C10-C23)	ND		90	100	1
TPH-Motor Oil (C18-C36)	ND		310	500	1
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
C9	93		61-139		09/07/2017 08:20
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> a4,b1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-11	1709045-020E	Water	08/30/2017 11:52	GC11B 09071719.D	144791
<u>Analytes</u>					
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>
TPH-Diesel (C10-C23)	1700		90	100	2
TPH-Motor Oil (C18-C36)	1900		310	500	2
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
C9	88		61-139		09/07/2017 22:02
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e2,e7,b1		



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/1/17	BatchID:	144818
Date Analyzed:	9/2/17 - 9/5/17	Extraction Method:	SW5035
Instrument:	GC10, GC38	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144818

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.20	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.010	-	-	-
Benzene	ND	0.010	-	-	-
Bromobenzene	ND	0.010	-	-	-
Bromochloromethane	ND	0.010	-	-	-
Bromodichloromethane	ND	0.010	-	-	-
Bromoform	ND	0.010	-	-	-
Bromomethane	ND	0.010	-	-	-
2-Butanone (MEK)	ND	0.040	-	-	-
t-Butyl alcohol (TBA)	ND	0.10	-	-	-
n-Butyl benzene	ND	0.010	-	-	-
sec-Butyl benzene	ND	0.010	-	-	-
tert-Butyl benzene	ND	0.010	-	-	-
Carbon Disulfide	ND	0.010	-	-	-
Carbon Tetrachloride	ND	0.010	-	-	-
Chlorobenzene	ND	0.010	-	-	-
Chloroethane	ND	0.010	-	-	-
Chloroform	ND	0.010	-	-	-
Chloromethane	ND	0.010	-	-	-
2-Chlorotoluene	ND	0.010	-	-	-
4-Chlorotoluene	ND	0.010	-	-	-
Dibromochloromethane	ND	0.010	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0080	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0080	-	-	-
Dibromomethane	ND	0.010	-	-	-
1,2-Dichlorobenzene	ND	0.010	-	-	-
1,3-Dichlorobenzene	ND	0.010	-	-	-
1,4-Dichlorobenzene	ND	0.010	-	-	-
Dichlorodifluoromethane	ND	0.010	-	-	-
1,1-Dichloroethane	ND	0.010	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.010	-	-	-
1,1-Dichloroethene	ND	0.010	-	-	-
cis-1,2-Dichloroethene	ND	0.010	-	-	-
trans-1,2-Dichloroethene	ND	0.010	-	-	-
1,2-Dichloropropane	ND	0.010	-	-	-
1,3-Dichloropropane	ND	0.010	-	-	-
2,2-Dichloropropane	ND	0.010	-	-	-
1,1-Dichloropropene	ND	0.010	-	-	-
cis-1,3-Dichloropropene	ND	0.010	-	-	-

(Cont.)



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/1/17	BatchID:	144818
Date Analyzed:	9/2/17 - 9/5/17	Extraction Method:	SW5035
Instrument:	GC10, GC38	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144818

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.010	-	-	-
Diisopropyl ether (DIPE)	ND	0.010	-	-	-
Ethylbenzene	ND	0.010	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.010	-	-	-
Freon 113	ND	0.010	-	-	-
Hexachlorobutadiene	ND	0.010	-	-	-
Hexachloroethane	ND	0.010	-	-	-
2-Hexanone	ND	0.010	-	-	-
Isopropylbenzene	ND	0.010	-	-	-
4-Isopropyl toluene	ND	0.010	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.010	-	-	-
Methylene chloride	ND	0.010	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.010	-	-	-
Naphthalene	ND	0.010	-	-	-
n-Propyl benzene	ND	0.010	-	-	-
Styrene	ND	0.010	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.010	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.010	-	-	-
Tetrachloroethene	ND	0.010	-	-	-
Toluene	ND	0.010	-	-	-
1,2,3-Trichlorobenzene	ND	0.010	-	-	-
1,2,4-Trichlorobenzene	ND	0.010	-	-	-
1,1,1-Trichloroethane	ND	0.010	-	-	-
1,1,2-Trichloroethane	ND	0.010	-	-	-
Trichloroethene	ND	0.010	-	-	-
Trichlorofluoromethane	ND	0.010	-	-	-
1,2,3-Trichloropropane	ND	0.010	-	-	-
1,2,4-Trimethylbenzene	ND	0.010	-	-	-
1,3,5-Trimethylbenzene	ND	0.010	-	-	-
Vinyl Chloride	ND	0.010	-	-	-
Xylenes, Total	ND	0.010	-	-	-

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QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/1/17	BatchID: 144818
Date Analyzed: 9/2/17 - 9/5/17	Extraction Method: SW5035
Instrument: GC10, GC38	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/Kg
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-144818

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	0.2848		0.25	114	70-130
Toluene-d8	0.2947		0.25	118	70-130
4-BFB	0.02762		0.025	110	70-130
Benzene-d6	0.1974		0.20	99	60-140
Ethylbenzene-d10	0.2134		0.20	107	60-140
1,2-DCB-d4	0.1725		0.20	86	60-140



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/1/17	BatchID:	144818
Date Analyzed:	9/2/17 - 9/5/17	Extraction Method:	SW5035
Instrument:	GC10, GC38	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144818

QC Summary Report for SW8260B (Encore)

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	1.91	1.90	2	96	95	72-156	0.396	20
tert-Amyl methyl ether (TAME)	0.0884	0.0882	0.10	88	88	53-116	0	20
Benzene	0.0913	0.0893	0.10	91	89	63-137	2.19	20
Bromobenzene	0.102	0.0999	0.10	102	100	68-126	2.41	20
Bromochloromethane	0.0971	0.0956	0.10	97	96	72-126	1.53	20
Bromodichloromethane	0.0897	0.0887	0.10	90	89	61-127	1.13	20
Bromoform	0.0721	0.0718	0.10	72	72	49-100	0	20
Bromomethane	0.0837	0.0819	0.10	84	82	40-161	2.13	20
2-Butanone (MEK)	0.363	0.360	0.40	91	90	43-157	0.845	20
t-Butyl alcohol (TBA)	0.446	0.453	0.40	111	113	41-135	1.55	20
n-Butyl benzene	0.134	0.128	0.10	134	128	102-160	4.73	20
sec-Butyl benzene	0.124	0.120	0.10	124	120	74-168	3.01	20
tert-Butyl benzene	0.128	0.125	0.10	128	125	88-157	2.37	20
Carbon Disulfide	0.100	0.0989	0.10	100	99	42-151	1.06	20
Carbon Tetrachloride	0.0956	0.0931	0.10	96	93	49-149	2.64	20
Chlorobenzene	0.0958	0.0944	0.10	96	94	77-121	1.42	20
Chloroethane	0.0697	0.0660	0.10	70	66	41-134	5.42	20
Chloroform	0.0959	0.0942	0.10	96	94	69-133	1.82	20
Chloromethane	0.0570	0.0562	0.10	57	56	31-119	1.46	20
2-Chlorotoluene	0.111	0.108	0.10	111	108	79-139	2.34	20
4-Chlorotoluene	0.111	0.109	0.10	111	109	77-138	2.05	20
Dibromochloromethane	0.0900	0.0898	0.10	90	90	58-121	0	20
1,2-Dibromo-3-chloropropane	0.0332	0.0325	0.040	83	81	39-115	1.90	20
1,2-Dibromoethane (EDB)	0.101	0.100	0.10	101	100	67-119	1.18	20
Dibromomethane	0.0918	0.0912	0.10	92	91	66-117	0.566	20
1,2-Dichlorobenzene	0.0849	0.0843	0.10	85	84	59-109	0.695	20
1,3-Dichlorobenzene	0.0980	0.0966	0.10	98	97	75-130	1.40	20
1,4-Dichlorobenzene	0.0967	0.0959	0.10	97	96	71-122	0.867	20
Dichlorodifluoromethane	0.0309	0.0298	0.10	31, F2	30, F2	43-68	3.32	20
1,1-Dichloroethane	0.0931	0.0912	0.10	93	91	62-139	2.02	20
1,2-Dichloroethane (1,2-DCA)	0.0896	0.0889	0.10	90	89	58-135	0.825	20
1,1-Dichloroethene	0.0962	0.0933	0.10	96	93	42-145	3.01	20
cis-1,2-Dichloroethene	0.0971	0.0949	0.10	97	95	67-129	2.21	20
trans-1,2-Dichloroethene	0.0949	0.0924	0.10	95	92	54-139	2.62	20
1,2-Dichloropropane	0.0922	0.0908	0.10	92	91	68-125	1.61	20
1,3-Dichloropropane	0.0986	0.0961	0.10	99	96	65-125	2.50	20
2,2-Dichloropropane	0.0942	0.0907	0.10	94	91	45-151	3.71	20
1,1-Dichloropropene	0.100	0.0972	0.10	100	97	64-138	3.05	20
cis-1,3-Dichloropropene	0.0997	0.0974	0.10	100	97	62-134	2.30	20

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Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/1/17	BatchID:	144818
Date Analyzed:	9/2/17 - 9/5/17	Extraction Method:	SW5035
Instrument:	GC10, GC38	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144818

QC Summary Report for SW8260B (Encore)

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	0.0935	0.0914	0.10	93	91	59-128	2.32	20
Diisopropyl ether (DIPE)	0.0909	0.0896	0.10	91	90	52-129	1.53	20
Ethylbenzene	0.106	0.104	0.10	106	104	74-142	1.87	20
Ethyl tert-butyl ether (ETBE)	0.0986	0.0978	0.10	99	98	53-125	0.793	20
Freon 113	0.0816	0.0793	0.10	82	79	51-126	2.92	20
Hexachlorobutadiene	0.131	0.127	0.10	131	127	70-158	3.07	20
Hexachloroethane	0.116	0.112	0.10	116	112	80-160	3.33	20
2-Hexanone	0.0729	0.0728	0.10	73	73	41-116	0	20
Isopropylbenzene	0.132	0.127	0.10	132	127	77-149	3.43	20
4-Isopropyl toluene	0.131	0.128	0.10	131	128	96-159	2.73	20
Methyl-t-butyl ether (MTBE)	0.0986	0.0977	0.10	99	98	58-122	0.898	20
Methylene chloride	0.0934	0.0922	0.10	93	92	58-135	1.24	20
4-Methyl-2-pentanone (MIBK)	0.0801	0.0797	0.10	80	80	40-112	0	20
Naphthalene	0.0545	0.0544	0.10	54	54	23-73	0	20
n-Propyl benzene	0.127	0.122	0.10	127	122	82-160	3.80	20
Styrene	0.0962	0.0945	0.10	96	95	68-124	1.73	20
1,1,1,2-Tetrachloroethane	0.107	0.105	0.10	107	105	70-128	1.55	20
1,1,2,2-Tetrachloroethane	0.0723	0.0706	0.10	72	71	57-111	2.38	20
Tetrachloroethene	0.112	0.108	0.10	111	108	73-145	3.14	20
Toluene	0.105	0.103	0.10	105	103	76-130	2.37	20
1,2,3-Trichlorobenzene	0.0665	0.0668	0.10	67	67	43-72	0	20
1,2,4-Trichlorobenzene	0.0877	0.0862	0.10	88	86	47-95	1.64	20
1,1,1-Trichloroethane	0.100	0.0973	0.10	100	97	60-141	3.00	20
1,1,2-Trichloroethane	0.0958	0.0944	0.10	96	94	62-118	1.46	20
Trichloroethene	0.112	0.110	0.10	112	110	72-132	2.01	20
Trichlorofluoromethane	0.0841	0.0819	0.10	84	82	43-135	2.67	20
1,2,3-Trichloropropane	0.0936	0.0926	0.10	94	93	57-122	1.11	20
1,2,4-Trimethylbenzene	0.121	0.118	0.10	121	118	81-152	2.49	20
1,3,5-Trimethylbenzene	0.124	0.122	0.10	124	122	78-160	2.27	20
Vinyl Chloride	0.0665	0.0646	0.10	67	65	42-131	2.92	20
Xylenes, Total	0.307	0.303	0.30	102	101	70-130	1.31	20

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CA ELAP 1644 • NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/1/17	BatchID: 144818
Date Analyzed: 9/2/17 - 9/5/17	Extraction Method: SW5035
Instrument: GC10, GC38	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/Kg
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-144818

QC Summary Report for SW8260B (Encore)

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.290	0.291	0.25	116	116	70-130	0	20
Toluene-d8	0.297	0.295	0.25	119	118	70-130	0.596	20
4-BFB	0.0295	0.0295	0.025	118	118	70-130	0	20
Benzene-d6	0.210	0.207	0.20	105	103	60-140	1.51	20
Ethylbenzene-d10	0.230	0.227	0.20	115	114	60-140	1.27	20
1,2-DCB-d4	0.187	0.184	0.20	94	92	60-140	1.41	20



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/8/17
Date Analyzed: 9/8/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 145115
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-145115

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	142	1.7	10	200	-	71	47-122
tert-Amyl methyl ether (TAME)	ND	7.97	0.22	0.50	10	-	80	62-121
Benzene	ND	9.29	0.051	0.50	10	-	93	74-121
Bromobenzene	ND	9.20	0.060	0.50	10	-	92	63-127
Bromochloromethane	ND	8.87	0.090	0.50	10	-	89	70-126
Bromodichloromethane	ND	9.28	0.20	0.50	10	-	93	66-127
Bromoform	ND	7.69	0.066	0.50	10	-	77	60-119
Bromomethane	ND	10.9	0.16	0.50	10	-	109	32-155
2-Butanone (MEK)	ND	28.0	0.49	2.0	40	-	70	51-117
t-Butyl alcohol (TBA)	ND	23.9	0.94	2.0	40	-	60	41-122
n-Butyl benzene	ND	9.84	0.084	0.50	10	-	98	73-137
sec-Butyl benzene	ND	9.66	0.060	0.50	10	-	97	71-137
tert-Butyl benzene	ND	10.3	0.050	0.50	10	-	103	61-136
Carbon Disulfide	ND	9.98	0.066	0.50	10	-	100	61-139
Carbon Tetrachloride	ND	10.0	0.069	0.50	10	-	101	69-137
Chlorobenzene	ND	9.34	0.050	0.50	10	-	93	71-122
Chloroethane	ND	10.8	0.31	0.50	10	-	108	54-132
Chloroform	ND	9.25	0.064	0.50	10	-	93	73-122
Chloromethane	ND	11.4	0.13	0.50	10	-	114	48-136
2-Chlorotoluene	ND	10.1	0.070	0.50	10	-	101	65-134
4-Chlorotoluene	ND	9.84	0.070	0.50	10	-	98	65-130
Dibromochloromethane	ND	7.93	0.080	0.50	10	-	79	65-121
1,2-Dibromo-3-chloropropane	ND	2.75	0.12	0.20	4	-	69	41-132
1,2-Dibromoethane (EDB)	ND	8.44	0.12	0.50	10	-	84	67-125
Dibromomethane	ND	8.42	0.080	0.50	10	-	84	68-121
1,2-Dichlorobenzene	ND	9.17	0.080	0.50	10	-	92	69-128
1,3-Dichlorobenzene	ND	9.52	0.071	0.50	10	-	95	71-131
1,4-Dichlorobenzene	ND	9.19	0.072	0.50	10	-	92	70-128
Dichlorodifluoromethane	ND	8.77	0.063	0.50	10	-	88	21-158
1,1-Dichloroethane	ND	9.38	0.060	0.50	10	-	94	73-123
1,2-Dichloroethane (1,2-DCA)	ND	8.65	0.090	0.50	10	-	86	61-127
1,1-Dichloroethene	ND	9.17	0.086	0.50	10	-	92	68-130
cis-1,2-Dichloroethene	ND	9.28	0.050	0.50	10	-	93	72-123
trans-1,2-Dichloroethene	ND	9.53	0.060	0.50	10	-	95	64-138
1,2-Dichloropropane	ND	9.21	0.055	0.50	10	-	92	71-121
1,3-Dichloropropane	ND	8.43	0.10	0.50	10	-	84	69-120
2,2-Dichloropropane	ND	11.5	0.10	0.50	10	-	115	64-142

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Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/8/17
Date Analyzed: 9/8/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 145115
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-145115

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	9.60	0.060	0.50	10	-	96	70-130
cis-1,3-Dichloropropene	ND	9.66	0.090	0.50	10	-	97	58-136
trans-1,3-Dichloropropene	ND	9.70	0.070	0.50	10	-	97	66-119
Diisopropyl ether (DIPE)	ND	9.01	0.070	0.50	10	-	90	66-123
Ethylbenzene	ND	9.46	0.050	0.50	10	-	95	71-125
Ethyl tert-butyl ether (ETBE)	ND	8.57	0.070	0.50	10	-	86	67-122
Freon 113	ND	9.12	0.066	0.50	10	-	91	68-132
Hexachlorobutadiene	ND	9.66	0.085	0.50	10	-	97	56-155
Hexachloroethane	ND	9.14	0.060	0.50	10	-	91	61-129
2-Hexanone	ND	6.66	0.44	0.50	10	-	67	51-115
Isopropylbenzene	ND	9.86	0.070	0.50	10	-	99	66-134
4-Isopropyl toluene	ND	10.4	0.050	0.50	10	-	104	70-136
Methyl-t-butyl ether (MTBE)	ND	7.67	0.10	0.50	10	-	77	64-118
Methylene chloride	0.1852,J	8.15	0.052	0.50	10	-	81	62-121
4-Methyl-2-pentanone (MIBK)	ND	7.48	0.24	0.50	10	-	75	51-115
Naphthalene	ND	7.63	0.16	0.50	10	-	76	55-137
n-Propyl benzene	ND	10.2	0.060	0.50	10	-	102	63-140
Styrene	ND	8.98	0.060	0.50	10	-	90	62-133
1,1,1,2-Tetrachloroethane	ND	9.68	0.070	0.50	10	-	97	69-128
1,1,2,2-Tetrachloroethane	ND	8.21	0.11	0.50	10	-	82	60-118
Tetrachloroethene	ND	9.67	0.082	0.50	10	-	97	63-136
Toluene	ND	9.55	0.040	0.50	10	-	95	67-124
1,2,3-Trichlorobenzene	ND	8.37	0.11	0.50	10	-	84	57-145
1,2,4-Trichlorobenzene	ND	8.94	0.086	0.50	10	-	89	60-144
1,1,1-Trichloroethane	ND	9.89	0.050	0.50	10	-	99	70-133
1,1,2-Trichloroethane	ND	8.51	0.080	0.50	10	-	85	65-125
Trichloroethene	ND	9.34	0.060	0.50	10	-	93	67-133
Trichlorofluoromethane	ND	8.96	0.047	0.50	10	-	90	59-145
1,2,3-Trichloropropane	ND	8.27	0.14	0.50	10	-	83	65-115
1,2,4-Trimethylbenzene	ND	10.4	0.065	0.50	10	-	104	67-136
1,3,5-Trimethylbenzene	ND	10.6	0.070	0.50	10	-	106	68-135
Vinyl Chloride	ND	11.0	0.070	0.50	10	-	110	53-146
Xylenes, Total	ND	28.3	0.25	0.50	30	-	94	68-128

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Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/8/17	BatchID: 145115
Date Analyzed: 9/8/17	Extraction Method: SW5030B
Instrument: GC10	Analytical Method: SW8260B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS-145115

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
Dibromofluoromethane	27.17	27.5			25	109	110	91-133
Toluene-d8	27.76	27.8			25	111	111	87-127
4-BFB	2.352	2.58			2.5	94	103	66-140



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/1/17	BatchID:	144818
Date Analyzed:	9/2/17 - 9/5/17	Extraction Method:	SW5035
Instrument:	GC10, GC38	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144818

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.50	0.50	-	-	-
Surrogate Recovery						
Dibromofluoromethane	0.2855			0.25	114	70-130
Benzene-D6	0.1992			0.20	100	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	1.68	1.83	2	84	91	70-130	8.33	20
Surrogate Recovery								
Dibromofluoromethane	0.285	0.284	0.25	114	114	70-130	0	20
Benzene-D6	0.210	0.215	0.20	105	108	70-130	2.55	20



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/8/17	BatchID: 145115
Date Analyzed: 9/8/17	Extraction Method: SW5030B
Instrument: GC10	Analytical Method: SW8260B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-145115

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	11	50	-	-	-
Surrogate Recovery						
Dibromofluoromethane	27.87			25	111	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	179	178	200	89	89	70-130	0	20
Surrogate Recovery								
Dibromofluoromethane	29.4	29.1	25	117	117	70-130	0	20



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/6/17
Date Analyzed: 9/7/17
Instrument: GC35
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144931
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg
Sample ID: MB/LCS-144931
 1709045-003AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.0026	0.010	-	-	-	-
Acenaphthylene	ND	-	0.0034	0.010	-	-	-	-
Anthracene	ND	-	0.0029	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.0017	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.185	0.0027	0.010	0.20	-	92	23-129
Benzo (b) fluoranthene	ND	-	0.0015	0.010	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.0033	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.0016	0.010	-	-	-	-
Chrysene	ND	0.206	0.0024	0.010	0.20	-	103	38-104
Dibenzo (a,h) anthracene	ND	-	0.0050	0.010	-	-	-	-
Fluoranthene	ND	-	0.0040	0.010	-	-	-	-
Fluorene	ND	-	0.0060	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.0049	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.200	0.0029	0.010	0.20	-	100	59-106
2-Methylnaphthalene	ND	0.188	0.0020	0.010	0.20	-	94	54-108
Naphthalene	ND	-	0.0016	0.010	-	-	-	-
Phenanthrene	ND	0.169	0.0035	0.010	0.20	-	84	48-107
Pyrene	ND	0.178	0.0045	0.010	0.20	-	89	40-104

Surrogate Recovery

1-Fluoronaphthalene	0.4587	0.483			0.50	92	97	63-123
2-Fluorobiphenyl	0.4539	0.477			0.50	91	95	55-127

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	NR	NR		ND<0.1	NR	NR	-	NR	-
Chrysene	NR	NR		ND<0.1	NR	NR	-	NR	-
1-Methylnaphthalene	NR	NR		ND<0.1	NR	NR	-	NR	-
2-Methylnaphthalene	NR	NR		ND<0.1	NR	NR	-	NR	-
Phenanthrene	NR	NR		ND<0.1	NR	NR	-	NR	-
Pyrene	NR	NR		0.1	NR	NR	-	NR	-

Surrogate Recovery

1-Fluoronaphthalene	NR	NR			NR	NR	-	NR	-
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	-



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/5/17	BatchID:	144896
Date Analyzed:	9/6/17 - 9/8/17	Extraction Method:	SW3510C
Instrument:	GC35	Analytical Method:	SW8270C-SIM
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144896

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.26	0.50	-	-	-
Acenaphthylene	ND	0.23	0.50	-	-	-
Anthracene	ND	0.24	0.50	-	-	-
Benzo (a) anthracene	ND	0.23	0.50	-	-	-
Benzo (a) pyrene	ND	0.20	0.50	-	-	-
Benzo (b) fluoranthene	ND	0.19	0.50	-	-	-
Benzo (g,h,i) perylene	ND	0.24	0.50	-	-	-
Benzo (k) fluoranthene	ND	0.21	0.50	-	-	-
Chrysene	ND	0.26	0.50	-	-	-
Dibenzo (a,h) anthracene	ND	0.17	0.50	-	-	-
Fluoranthene	ND	0.23	0.50	-	-	-
Fluorene	ND	0.25	0.50	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.18	0.50	-	-	-
1-Methylnaphthalene	ND	0.26	0.50	-	-	-
2-Methylnaphthalene	ND	0.26	0.50	-	-	-
Naphthalene	ND	0.26	0.50	-	-	-
Phenanthrene	ND	0.27	0.50	-	-	-
Pyrene	ND	0.22	0.50	-	-	-

Surrogate Recovery

1-Fluoronaphthalene	21.49			25	86	30-130
2-Fluorobiphenyl	21.66			25	87	30-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzo (a) pyrene	7.68	9.16	10	77	92	12-152	17.6	25
Chrysene	9.44	10.9	10	94	109	28-116	14.5	25
1-Methylnaphthalene	10.0	10.7	10	100	107	48-125	6.66	25
2-Methylnaphthalene	9.48	10.3	10	95	103	41-124	7.86	25
Phenanthrene	8.11	9.14	10	81	91	36-123	12.0	25
Pyrene	8.51	10.1	10	85	101	29-118	17.0	25

Surrogate Recovery

1-Fluoronaphthalene	23.6	25.3	25	94	101	45-129	7.21	25
2-Fluorobiphenyl	23.9	25.7	25	96	103	47-125	7.11	25



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/5/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709045
BatchID: 144860
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144860
 1709033-004AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.56	0.14	0.25	5	-	71	46-118
Acenaphthylene	ND	3.78	0.14	0.25	5	-	76	43-122
Acetochlor	ND	-	0.25	0.25	-	-	-	-
Anthracene	ND	3.50	0.14	0.25	5	-	70	47-125
Benzidine	ND	1.31	0.23	1.3	5	-	26	13-83
Benzo (a) anthracene	ND	3.62	0.14	0.25	5	-	72	53-117
Benzo (a) pyrene	ND	4.86	0.14	0.25	5	-	97	53-138
Benzo (b) fluoranthene	ND	4.22	0.14	0.25	5	-	84	48-125
Benzo (g,h,i) perylene	ND	4.35	0.15	0.25	5	-	87	51-146
Benzo (k) fluoranthene	ND	5.00	0.16	0.25	5	-	100	53-124
Benzyl Alcohol	ND	4.24	0.51	1.3	5	-	85	51-105
1,1-Biphenyl	ND	-	0.15	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	4.08	0.14	0.25	5	-	82	48-115
Bis (2-chloroethyl) Ether	ND	4.05	0.13	0.25	5	-	81	51-105
Bis (2-chloroisopropyl) Ether	ND	4.49	0.12	0.25	5	-	90	85-119
Bis (2-ethylhexyl) Adipate	ND	5.01	0.25	0.25	5	-	100	46-117
Bis (2-ethylhexyl) Phthalate	ND	4.13	0.13	0.25	5	-	83	50-124
4-Bromophenyl Phenyl Ether	ND	4.29	0.16	0.25	5	-	86	70-112
Butylbenzyl Phthalate	ND	4.82	0.13	0.25	5	-	96	55-127
4-Chloroaniline	ND	2.08	0.13	0.50	5	-	42	18-77
4-Chloro-3-methylphenol	ND	4.39	0.12	0.25	5	-	88	49-123
2-Chloronaphthalene	ND	3.51	0.16	0.25	5	-	70	44-109
2-Chlorophenol	ND	4.39	0.14	0.25	5	-	88	55-116
4-Chlorophenyl Phenyl Ether	ND	4.29	0.15	0.25	5	-	86	45-122
Chrysene	ND	3.59	0.14	0.25	5	-	72	54-116
Dibenzo (a,h) anthracene	ND	4.48	0.16	0.25	5	-	90	52-141
Dibenzofuran	ND	4.10	0.13	0.25	5	-	82	46-117
Di-n-butyl Phthalate	ND	3.71	0.13	0.25	5	-	74	45-126
1,2-Dichlorobenzene	ND	4.28	0.12	0.25	5	-	85	55-105
1,3-Dichlorobenzene	ND	4.18	0.14	0.25	5	-	84	51-104
1,4-Dichlorobenzene	ND	4.03	0.13	0.25	5	-	81	50-102
3,3-Dichlorobenzidine	ND	2.31	0.12	0.50	5	-	46	20-84
2,4-Dichlorophenol	ND	4.59	0.13	0.25	5	-	92	54-124
Diethyl Phthalate	ND	3.78	0.14	0.25	5	-	76	42-118
2,4-Dimethylphenol	ND	4.60	0.13	0.25	5	-	92	53-120
Dimethyl Phthalate	ND	3.75	0.14	0.25	5	-	75	45-118
4,6-Dinitro-2-methylphenol	ND	4.04	0.13	1.3	5	-	81	32-126

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/5/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144860
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144860
 1709033-004AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	1.84	1.3	6.3	5	-	37	20-130
2,4-Dinitrotoluene	ND	4.52	0.13	0.25	5	-	90	47-117
2,6-Dinitrotoluene	ND	4.76	0.14	0.25	5	-	95	48-121
Di-n-octyl Phthalate	ND	5.40	0.14	0.50	5	-	108	40-150
1,2-Diphenylhydrazine	ND	4.00	0.16	0.25	5	-	80, F2	88-117
Fluoranthene	ND	3.52	0.13	0.25	5	-	71	45-126
Fluorene	ND	3.74	0.14	0.25	5	-	75	43-118
Hexachlorobenzene	ND	3.91	0.17	0.25	5	-	78	47-130
Hexachlorobutadiene	ND	4.12	0.15	0.25	5	-	82	50-121
Hexachlorocyclopentadiene	ND	2.48	0.73	1.3	5	-	50	30-89
Hexachloroethane	ND	4.11	0.14	0.25	5	-	82	50-106
Indeno (1,2,3-cd) pyrene	ND	4.30	0.14	0.25	5	-	86	51-138
Isophorone	ND	3.34	0.12	0.25	5	-	67	38-92
2-Methylnaphthalene	ND	4.26	0.14	0.25	5	-	85	51-121
2-Methylphenol (o-Cresol)	ND	4.55	0.14	0.25	5	-	91	48-114
3 & 4-Methylphenol (m,p-Cresol)	ND	4.07	0.12	0.25	5	-	81	30-130
Naphthalene	ND	3.78	0.13	0.25	5	-	76	50-113
2-Nitroaniline	ND	4.36	0.62	1.3	5	-	87	45-115
3-Nitroaniline	ND	3.24	0.59	1.3	5	-	65	31-93
4-Nitroaniline	ND	4.23	0.55	1.3	5	-	85	41-108
Nitrobenzene	ND	4.68	0.14	0.25	5	-	94	49-122
2-Nitrophenol	ND	3.86	0.64	1.3	5	-	77	54-121
4-Nitrophenol	ND	2.78	0.41	1.3	5	-	56	40-102
N-Nitrosodiphenylamine	ND	-	0.16	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.82	0.13	0.25	5	-	76	47-108
Pentachlorophenol	ND	3.48	0.32	1.3	5	-	70	39-134
Phenanthrene	ND	3.42	0.14	0.25	5	-	68	49-123
Phenol	ND	3.82	0.12	0.25	5	-	76	49-107
Pyrene	ND	4.21	0.13	0.25	5	-	84	55-124
Pyridine	ND	5.59	0.25	0.25	5	-	112	70-130
1,2,4-Trichlorobenzene	ND	4.42	0.14	0.25	5	-	88	51-121
2,4,5-Trichlorophenol	ND	3.62	0.12	0.25	5	-	72	45-126
2,4,6-Trichlorophenol	ND	3.51	0.14	0.25	5	-	70	46-128



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/5/17	BatchID: 144860
Date Analyzed: 9/5/17	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS-144860 1709033-004AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
2-Fluorophenol	4.331	4.09			5	87	82	47-125
Phenol-d5	4.484	4.36			5	90	87	45-117
Nitrobenzene-d5	5.239	4.88			5	105	98	39-121
2-Fluorobiphenyl	4.049	4.08			5	81	82	35-120
2,4,6-Tribromophenol	2.221	3.63			5	44	73	32-111
4-Terphenyl-d14	4.814	4.67			5	96	93	32-128



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/5/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144860
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144860
 1709033-004AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Acenaphthylene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Anthracene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzidine	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzo (a) anthracene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzo (a) pyrene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzo (b) fluoranthene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzo (g,h,i) perylene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzo (k) fluoranthene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Benzyl Alcohol	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Bis (2-chloroethoxy) Methane	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Bis (2-chloroethyl) Ether	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Bis (2-chloroisopropyl) Ether	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Bis (2-ethylhexyl) Adipate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Bis (2-ethylhexyl) Phthalate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
4-Bromophenyl Phenyl Ether	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Butylbenzyl Phthalate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
4-Chloroaniline	N/A	N/A		N/A	N/A	N/A	-	N/A	-
4-Chloro-3-methylphenol	NR	NR		ND<2	NR	NR	-	NR	-
2-Chloronaphthalene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2-Chlorophenol	NR	NR		ND<2	NR	NR	-	NR	-
4-Chlorophenyl Phenyl Ether	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Chrysene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Dibenzo (a,h) anthracene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Dibenzofuran	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Di-n-butyl Phthalate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
1,2-Dichlorobenzene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
1,3-Dichlorobenzene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
1,4-Dichlorobenzene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
3,3-Dichlorobenzidine	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2,4-Dichlorophenol	NR	NR		ND<2	NR	NR	-	NR	-
Diethyl Phthalate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2,4-Dimethylphenol	NR	NR		ND<2	NR	NR	-	NR	-
Dimethyl Phthalate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
4,6-Dinitro-2-methylphenol	NR	NR		ND<10	NR	NR	-	NR	-
2,4-Dinitrophenol	NR	NR		ND<50	NR	NR	-	NR	-
2,4-Dinitrotoluene	N/A	N/A		N/A	N/A	N/A	-	N/A	-

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NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/5/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144860
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144860
 1709033-004AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Di-n-octyl Phthalate	N/A	N/A		N/A	N/A	N/A	-	N/A	-
1,2-Diphenylhydrazine	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Fluoranthene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Fluorene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Hexachlorobenzene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Hexachlorobutadiene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Hexachlorocyclopentadiene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Hexachloroethane	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Indeno (1,2,3-cd) pyrene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Isophorone	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2-Methylnaphthalene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2-Methylphenol (o-Cresol)	NR	NR		ND<2	NR	NR	-	NR	-
3 & 4-Methylphenol (m,p-Cresol)	NR	NR		ND<2	NR	NR	-	NR	-
Naphthalene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2-Nitroaniline	N/A	N/A		N/A	N/A	N/A	-	N/A	-
3-Nitroaniline	N/A	N/A		N/A	N/A	N/A	-	N/A	-
4-Nitroaniline	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Nitrobenzene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2-Nitrophenol	NR	NR		ND<10	NR	NR	-	NR	-
4-Nitrophenol	NR	NR		ND<10	NR	NR	-	NR	-
N-Nitrosodi-n-propylamine	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Pentachlorophenol	NR	NR		ND<10	NR	NR	-	NR	-
Phenanthrene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Phenol	NR	NR		ND<2	NR	NR	-	NR	-
Pyrene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Pyridine	N/A	N/A		N/A	N/A	N/A	-	N/A	-
1,2,4-Trichlorobenzene	N/A	N/A		N/A	N/A	N/A	-	N/A	-
2,4,5-Trichlorophenol	NR	NR		ND<2	NR	NR	-	NR	-
2,4,6-Trichlorophenol	NR	NR		ND<2	NR	NR	-	NR	-



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/5/17	BatchID: 144860
Date Analyzed: 9/5/17	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS-144860 1709033-004AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
2-Fluorophenol	N/A	N/A			N/A	N/A	-	N/A	-
Phenol-d5	N/A	N/A			N/A	N/A	-	N/A	-
Nitrobenzene-d5	N/A	N/A			N/A	N/A	-	N/A	-
2-Fluorobiphenyl	N/A	N/A			N/A	N/A	-	N/A	-
2,4,6-Tribromophenol	N/A	N/A			N/A	N/A	-	N/A	-
4-Terphenyl-d14	N/A	N/A			N/A	N/A	-	N/A	-



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/6/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709045
BatchID: 144898
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144898
 1709045-039AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.44	0.14	0.25	5	-	69	46-118
Acenaphthylene	ND	3.63	0.14	0.25	5	-	73	43-122
Acetochlor	ND	-	0.25	0.25	-	-	-	-
Anthracene	ND	3.55	0.14	0.25	5	-	71	47-125
Benzidine	ND	1.04	0.23	1.3	5	-	21	13-83
Benzo (a) anthracene	ND	3.81	0.14	0.25	5	-	76	53-117
Benzo (a) pyrene	ND	5.65	0.14	0.25	5	-	113	53-138
Benzo (b) fluoranthene	ND	4.50	0.14	0.25	5	-	90	48-125
Benzo (g,h,i) perylene	ND	4.63	0.15	0.25	5	-	93	51-146
Benzo (k) fluoranthene	ND	5.24	0.16	0.25	5	-	105	53-124
Benzyl Alcohol	ND	3.79	0.51	1.3	5	-	76	51-105
1,1-Biphenyl	ND	-	0.15	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	3.81	0.14	0.25	5	-	76	48-115
Bis (2-chloroethyl) Ether	ND	3.70	0.13	0.25	5	-	74	51-105
Bis (2-chloroisopropyl) Ether	ND	4.18	0.12	0.25	5	-	84, F2	85-119
Bis (2-ethylhexyl) Adipate	ND	5.48	0.25	0.25	5	-	110	46-117
Bis (2-ethylhexyl) Phthalate	ND	4.34	0.13	0.25	5	-	87	50-124
4-Bromophenyl Phenyl Ether	ND	4.26	0.16	0.25	5	-	85	70-112
Butylbenzyl Phthalate	ND	5.14	0.13	0.25	5	-	103	55-127
4-Chloroaniline	ND	2.09	0.13	0.50	5	-	42	18-77
4-Chloro-3-methylphenol	ND	4.31	0.12	0.25	5	-	86	49-123
2-Chloronaphthalene	ND	3.38	0.16	0.25	5	-	68	44-109
2-Chlorophenol	ND	4.15	0.14	0.25	5	-	83	55-116
4-Chlorophenyl Phenyl Ether	ND	4.08	0.15	0.25	5	-	82	45-122
Chrysene	ND	3.77	0.14	0.25	5	-	75	54-116
Dibenzo (a,h) anthracene	ND	4.74	0.16	0.25	5	-	95	52-141
Dibenzofuran	ND	3.89	0.13	0.25	5	-	78	46-117
Di-n-butyl Phthalate	ND	3.73	0.13	0.25	5	-	75	45-126
1,2-Dichlorobenzene	ND	4.03	0.12	0.25	5	-	81	55-105
1,3-Dichlorobenzene	ND	3.88	0.14	0.25	5	-	78	51-104
1,4-Dichlorobenzene	ND	3.75	0.13	0.25	5	-	75	50-102
3,3-Dichlorobenzidine	ND	2.44	0.12	0.50	5	-	49	20-84
2,4-Dichlorophenol	ND	4.48	0.13	0.25	5	-	90	54-124
Diethyl Phthalate	ND	3.72	0.14	0.25	5	-	74	42-118
2,4-Dimethylphenol	ND	4.31	0.13	0.25	5	-	86	53-120
Dimethyl Phthalate	ND	3.65	0.14	0.25	5	-	73	45-118
4,6-Dinitro-2-methylphenol	ND	4.18	0.13	1.3	5	-	84	32-126

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/6/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709045
BatchID: 144898
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144898
 1709045-039AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	2.97	1.3	6.3	5	-	59	20-130
2,4-Dinitrotoluene	ND	4.56	0.13	0.25	5	-	91	47-117
2,6-Dinitrotoluene	ND	4.67	0.14	0.25	5	-	93	48-121
Di-n-octyl Phthalate	ND	5.81	0.14	0.50	5	-	116	40-150
1,2-Diphenylhydrazine	ND	3.92	0.16	0.25	5	-	78, F2	88-117
Fluoranthene	ND	3.64	0.13	0.25	5	-	73	45-126
Fluorene	ND	3.65	0.14	0.25	5	-	73	43-118
Hexachlorobenzene	ND	3.92	0.17	0.25	5	-	78	47-130
Hexachlorobutadiene	ND	3.81	0.15	0.25	5	-	76	50-121
Hexachlorocyclopentadiene	ND	1.92	0.73	1.3	5	-	38	30-89
Hexachloroethane	ND	3.85	0.14	0.25	5	-	77	50-106
Indeno (1,2,3-cd) pyrene	ND	4.54	0.14	0.25	5	-	91	51-138
Isophorone	ND	3.21	0.12	0.25	5	-	64	38-92
2-Methylnaphthalene	ND	3.98	0.14	0.25	5	-	80	51-121
2-Methylphenol (o-Cresol)	ND	4.24	0.14	0.25	5	-	85	48-114
3 & 4-Methylphenol (m,p-Cresol)	ND	3.80	0.12	0.25	5	-	76	30-130
Naphthalene	ND	3.54	0.13	0.25	5	-	71	50-113
2-Nitroaniline	ND	4.25	0.62	1.3	5	-	85	45-115
3-Nitroaniline	ND	3.26	0.59	1.3	5	-	65	31-93
4-Nitroaniline	ND	4.10	0.55	1.3	5	-	82	41-108
Nitrobenzene	ND	4.36	0.14	0.25	5	-	87	49-122
2-Nitrophenol	ND	3.88	0.64	1.3	5	-	78	54-121
4-Nitrophenol	ND	2.76	0.41	1.3	5	-	55	40-102
N-Nitrosodiphenylamine	ND	-	0.16	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.51	0.13	0.25	5	-	70	47-108
Pentachlorophenol	ND	3.86	0.32	1.3	5	-	77	39-134
Phenanthrene	ND	3.45	0.14	0.25	5	-	69	49-123
Phenol	ND	3.94	0.12	0.25	5	-	79	49-107
Pyrene	ND	4.44	0.13	0.25	5	-	89	55-124
Pyridine	ND	5.10	0.25	0.25	5	-	102	70-130
1,2,4-Trichlorobenzene	ND	4.20	0.14	0.25	5	-	84	51-121
2,4,5-Trichlorophenol	ND	3.83	0.12	0.25	5	-	77	45-126
2,4,6-Trichlorophenol	ND	3.58	0.14	0.25	5	-	71	46-128

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/5/17	BatchID: 144898
Date Analyzed: 9/6/17	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS-144898 1709045-039AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
2-Fluorophenol	5.134	4.29			5	103	86	47-125
Phenol-d5	5.126	4.44			5	103	89	45-117
Nitrobenzene-d5	5.542	4.93			5	111	99	39-121
2-Fluorobiphenyl	4.645	4.21			5	93	84	35-120
2,4,6-Tribromophenol	2.864	3.95			5	57	79	32-111
4-Terphenyl-d14	5.584	5.40			5	112	108	32-128



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/6/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144898
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144898
 1709045-039AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<20	NR	NR	-	NR	-
Acenaphthylene	NR	NR		ND<20	NR	NR	-	NR	-
Anthracene	NR	NR		ND<20	NR	NR	-	NR	-
Benzidine	NR	NR		ND<100	NR	NR	-	NR	-
Benzo (a) anthracene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (a) pyrene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (b) fluoranthene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (g,h,i) perylene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (k) fluoranthene	NR	NR		ND<20	NR	NR	-	NR	-
Benzyl Alcohol	NR	NR		ND<100	NR	NR	-	NR	-
Bis (2-chloroethoxy) Methane	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-chloroethyl) Ether	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-chloroisopropyl) Ether	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-ethylhexyl) Adipate	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-ethylhexyl) Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
4-Bromophenyl Phenyl Ether	NR	NR		ND<20	NR	NR	-	NR	-
Butylbenzyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
4-Chloroaniline	NR	NR		ND<40	NR	NR	-	NR	-
4-Chloro-3-methylphenol	NR	NR		ND<20	NR	NR	-	NR	-
2-Chloronaphthalene	NR	NR		ND<20	NR	NR	-	NR	-
2-Chlorophenol	NR	NR		ND<20	NR	NR	-	NR	-
4-Chlorophenyl Phenyl Ether	NR	NR		ND<20	NR	NR	-	NR	-
Chrysene	NR	NR		ND<20	NR	NR	-	NR	-
Dibenzo (a,h) anthracene	NR	NR		ND<20	NR	NR	-	NR	-
Dibenzofuran	NR	NR		ND<20	NR	NR	-	NR	-
Di-n-butyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
1,2-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
1,3-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
1,4-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
3,3-Dichlorobenzidine	NR	NR		ND<40	NR	NR	-	NR	-
2,4-Dichlorophenol	NR	NR		ND<20	NR	NR	-	NR	-
Diethyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
2,4-Dimethylphenol	NR	NR		ND<20	NR	NR	-	NR	-
Dimethyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
4,6-Dinitro-2-methylphenol	NR	NR		ND<100	NR	NR	-	NR	-
2,4-Dinitrophenol	NR	NR		ND<500	NR	NR	-	NR	-
2,4-Dinitrotoluene	NR	NR		ND<20	NR	NR	-	NR	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/6/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144898
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-144898
 1709045-039AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	NR	NR		ND<20	NR	NR	-	NR	-
Di-n-octyl Phthalate	NR	NR		ND<40	NR	NR	-	NR	-
1,2-Diphenylhydrazine	NR	NR		ND<20	NR	NR	-	NR	-
Fluoranthene	NR	NR		ND<20	NR	NR	-	NR	-
Fluorene	NR	NR		ND<20	NR	NR	-	NR	-
Hexachlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
Hexachlorobutadiene	NR	NR		ND<20	NR	NR	-	NR	-
Hexachlorocyclopentadiene	NR	NR		ND<100	NR	NR	-	NR	-
Hexachloroethane	NR	NR		ND<20	NR	NR	-	NR	-
Indeno (1,2,3-cd) pyrene	NR	NR		ND<20	NR	NR	-	NR	-
Isophorone	NR	NR		ND<20	NR	NR	-	NR	-
2-Methylnaphthalene	NR	NR		ND<20	NR	NR	-	NR	-
2-Methylphenol (o-Cresol)	NR	NR		ND<20	NR	NR	-	NR	-
3 & 4-Methylphenol (m,p-Cresol)	NR	NR		ND<20	NR	NR	-	NR	-
Naphthalene	NR	NR		ND<20	NR	NR	-	NR	-
2-Nitroaniline	NR	NR		ND<100	NR	NR	-	NR	-
3-Nitroaniline	NR	NR		ND<100	NR	NR	-	NR	-
4-Nitroaniline	NR	NR		ND<100	NR	NR	-	NR	-
Nitrobenzene	NR	NR		ND<20	NR	NR	-	NR	-
2-Nitrophenol	NR	NR		ND<100	NR	NR	-	NR	-
4-Nitrophenol	NR	NR		ND<100	NR	NR	-	NR	-
N-Nitrosodi-n-propylamine	NR	NR		ND<20	NR	NR	-	NR	-
Pentachlorophenol	NR	NR		ND<100	NR	NR	-	NR	-
Phenanthrene	NR	NR		ND<20	NR	NR	-	NR	-
Phenol	NR	NR		ND<20	NR	NR	-	NR	-
Pyrene	NR	NR		ND<20	NR	NR	-	NR	-
Pyridine	NR	NR		ND<20	NR	NR	-	NR	-
1,2,4-Trichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
2,4,5-Trichlorophenol	NR	NR		ND<20	NR	NR	-	NR	-
2,4,6-Trichlorophenol	NR	NR		ND<20	NR	NR	-	NR	-



Quality Control Report

Client: ERAS Environmental, Inc. Date Prepared: 9/5/17 Date Analyzed: 9/6/17 Instrument: GC17 Matrix: Soil Project: 16-005-02; 1091 Calcot Place, Oakland	WorkOrder: 1709045 BatchID: 144898 Extraction Method: SW3550B Analytical Method: SW8270C Unit: mg/Kg Sample ID: MB/LCS-144898 1709045-039AMS/MSD
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QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	-
Phenol-d5	NR	NR			NR	NR	-	NR	-
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	-
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	-
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	-
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	-



Quality Control Report


Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/5/17	BatchID:	144895
Date Analyzed:	9/6/17	Extraction Method:	E625
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144895

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.24	2.0	-	-	-
Acenaphthylene	ND	0.26	2.0	-	-	-
Acetochlor	ND	1.0	2.0	-	-	-
Anthracene	ND	0.15	2.0	-	-	-
Benzidine	ND	0.29	10	-	-	-
Benzo (a) anthracene	ND	0.16	2.0	-	-	-
Benzo (a) pyrene	ND	0.17	2.0	-	-	-
Benzo (b) fluoranthene	ND	0.16	2.0	-	-	-
Benzo (g,h,i) perylene	ND	0.18	2.0	-	-	-
Benzo (k) fluoranthene	ND	0.20	2.0	-	-	-
Benzyl Alcohol	ND	1.5	10	-	-	-
1,1-Biphenyl	ND	0.26	2.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.30	2.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.24	2.0	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.28	2.0	-	-	-
Bis (2-ethylhexyl) Adipate	ND	2.0	2.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.34	4.0	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.17	10	-	-	-
Butylbenzyl Phthalate	ND	0.29	2.0	-	-	-
4-Chloroaniline	ND	0.33	4.0	-	-	-
4-Chloro-3-methylphenol	ND	0.27	10	-	-	-
2-Chloronaphthalene	ND	0.25	2.0	-	-	-
2-Chlorophenol	ND	0.26	2.0	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.20	2.0	-	-	-
Chrysene	ND	0.18	2.0	-	-	-
Dibenzo (a,h) anthracene	ND	0.19	2.0	-	-	-
Dibenzofuran	ND	0.21	2.0	-	-	-
Di-n-butyl Phthalate	ND	0.30	2.0	-	-	-
1,2-Dichlorobenzene	ND	0.23	2.0	-	-	-
1,3-Dichlorobenzene	ND	0.22	2.0	-	-	-
1,4-Dichlorobenzene	ND	0.22	2.0	-	-	-
3,3-Dichlorobenzidine	ND	0.14	4.0	-	-	-
2,4-Dichlorophenol	ND	0.28	2.0	-	-	-
Diethyl Phthalate	ND	0.15	2.0	-	-	-
2,4-Dimethylphenol	ND	0.098	2.0	-	-	-
Dimethyl Phthalate	ND	0.18	2.0	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.98	10	-	-	-
2,4-Dinitrophenol	ND	0.87	25	-	-	-
2,4-Dinitrotoluene	ND	0.17	2.0	-	-	-

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/5/17	BatchID:	144895
Date Analyzed:	9/6/17	Extraction Method:	E625
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144895

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,6-Dinitrotoluene	ND	0.20	2.0	-	-	-
Di-n-octyl Phthalate	ND	0.27	2.0	-	-	-
1,2-Diphenylhydrazine	ND	0.16	2.0	-	-	-
Fluoranthene	ND	0.18	2.0	-	-	-
Fluorene	ND	0.20	2.0	-	-	-
Hexachlorobenzene	ND	0.18	2.0	-	-	-
Hexachlorobutadiene	ND	0.24	2.0	-	-	-
Hexachlorocyclopentadiene	ND	1.2	10	-	-	-
Hexachloroethane	ND	0.29	2.0	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.19	2.0	-	-	-
Isophorone	ND	0.32	2.0	-	-	-
2-Methylnaphthalene	ND	0.29	2.0	-	-	-
2-Methylphenol (o-Cresol)	ND	0.19	2.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.19	2.0	-	-	-
Naphthalene	ND	0.24	2.0	-	-	-
2-Nitroaniline	ND	1.3	10	-	-	-
3-Nitroaniline	ND	1.2	10	-	-	-
4-Nitroaniline	ND	1.2	10	-	-	-
Nitrobenzene	ND	0.32	2.0	-	-	-
2-Nitrophenol	ND	1.4	10	-	-	-
4-Nitrophenol	ND	1.7	10	-	-	-
N-Nitrosodiphenylamine	ND	0.18	2.0	-	-	-
N-Nitrosodi-n-propylamine	ND	0.35	2.0	-	-	-
Pentachlorophenol	ND	0.50	10	-	-	-
Phenanthrene	ND	0.22	2.0	-	-	-
Phenol	ND	0.34	2.0	-	-	-
Pyrene	ND	0.24	2.0	-	-	-
Pyridine	ND	2.0	2.0	-	-	-
1,2,4-Trichlorobenzene	ND	0.22	2.0	-	-	-
2,4,5-Trichlorophenol	ND	0.21	2.0	-	-	-
2,4,6-Trichlorophenol	ND	0.23	2.0	-	-	-



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/5/17	BatchID:	144895
Date Analyzed:	9/6/17	Extraction Method:	E625
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144895

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	14.54			20	73	8-130
Phenol-d5	16.98			20	85	5-130
Nitrobenzene-d5	20.75			20	104	20-140
2-Fluorobiphenyl	17.52			20	88	40-140
2,4,6-Tribromophenol	11.93			20	60	16-180
4-Terphenyl-d14	20.02			20	100	40-170



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709045
Date Prepared:	9/5/17	BatchID:	144895
Date Analyzed:	9/6/17	Extraction Method:	E625
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-144895

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	7.45	8.54	10	75	85	63-119	13.6	25
Acenaphthylene	7.89	9.01	10	79	90	57-125	13.2	25
Acetochlor	7.90	9.06	10	79	91	30-130	13.6	25
Anthracene	7.21	8.16	10	72	82	67-130	12.3	25
Benzidine	31.7	37.1	50	63	74	43-106	15.6	25
Benzo (a) anthracene	7.66	8.38	10	77	84	64-109	8.95	25
Benzo (a) pyrene	9.11	10.4	10	91	104	74-130	13.5	25
Benzo (b) fluoranthene	8.25	9.76	10	83	98	70-128	16.8	25
Benzo (g,h,i) perylene	8.34	9.50	10	83	95	69-128	13.0	25
Benzo (k) fluoranthene	9.54	10.3	10	95	103	66-130	7.22	25
Benzyl Alcohol	37.9	42.6	50	76	85	53-117	11.7	25
1,1-Biphenyl	7.20	8.24	10	72, F2	82	78-107	13.5	25
Bis (2-chloroethoxy) Methane	7.64	8.72	10	76	87	60-118	13.3	25
Bis (2-chloroethyl) Ether	9.23	10.3	10	92	103	47-116	10.9	25
Bis (2-chloroisopropyl) Ether	7.43	8.45	10	74	84	44-116	12.7	25
Bis (2-ethylhexyl) Adipate	8.85	10.3	10	88	103	55-122	15.2	25
Bis (2-ethylhexyl) Phthalate	7.04	8.27	10	70	83	64-131	16.0	25
4-Bromophenyl Phenyl Ether	7.73	8.75	10	77	87	68-129	12.4	25
Butylbenzyl Phthalate	8.66	9.94	10	87	99	66-131	13.8	25
4-Chloroaniline	8.00	9.02	10	80	90	63-120	11.9	25
4-Chloro-3-methylphenol	8.38	9.38	10	84	94	69-127	11.3	25
2-Chloronaphthalene	7.21	8.67	10	72	87	61-120	18.4	25
2-Chlorophenol	7.12	7.95	10	71	79	49-119	11.0	25
4-Chlorophenyl Phenyl Ether	7.80	8.96	10	78	90	65-124	13.9	25
Chrysene	7.49	8.63	10	75	86	67-121	14.1	25
Dibenzo (a,h) anthracene	8.44	9.72	10	84	97	74-126	14.1	25
Dibenzofuran	8.00	9.15	10	80	92	64-122	13.4	25
Di-n-butyl Phthalate	7.29	8.34	10	73	83	64-139	13.4	25
1,2-Dichlorobenzene	7.33	8.27	10	73	83	44-115	12.1	25
1,3-Dichlorobenzene	7.07	7.92	10	71	79	42-114	11.4	25
1,4-Dichlorobenzene	7.74	8.72	10	77	87	43-114	12.0	25
3,3-Dichlorobenzidine	7.88	8.97	10	79	90	10-154	13.0	25
2,4-Dichlorophenol	8.10	9.04	10	81	90	65-123	10.9	25
Diethyl Phthalate	7.61	8.63	10	76	86	62-127	12.5	25
2,4-Dimethylphenol	7.16	8.21	10	72	82	60-119	13.7	25
Dimethyl Phthalate	7.62	8.58	10	76	86	63-125	11.9	25
4,6-Dinitro-2-methylphenol	40.1	43.1	50	80	86	59-123	7.10	25
2,4-Dinitrophenol	28.8	30.6	50	58	61	43-127	6.03	25
2,4-Dinitrotoluene	8.94	9.99	10	89	100	68-125	11.1	25

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NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/5/17
Date Analyzed: 9/6/17
Instrument: GC17
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709045
BatchID: 144895
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-144895

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	9.00	10.1	10	90	101	66-126	11.2	25
Di-n-octyl Phthalate	8.04	9.72	10	80	97	58-141	18.9	25
1,2-Diphenylhydrazine	7.64	8.80	10	76	88	66-128	14.1	25
Fluoranthene	7.17	8.16	10	72	82	68-134	12.9	25
Fluorene	7.67	8.77	10	77	88	63-121	13.3	25
Hexachlorobenzene	7.37	8.24	10	74	82	68-127	11.2	25
Hexachlorobutadiene	7.36	8.36	10	74	84	48-122	12.8	25
Hexachlorocyclopentadiene	28.6	32.6	50	57	65	36-109	13.2	25
Hexachloroethane	7.41	8.36	10	74	84	43-116	12.0	25
Indeno (1,2,3-cd) pyrene	8.34	9.55	10	83	96	73-128	13.5	25
Isophorone	7.93	9.10	10	79	91	64-121	13.7	25
2-Methylnaphthalene	7.99	9.09	10	80	91	58-122	12.9	25
2-Methylphenol (o-Cresol)	8.38	9.42	10	84	94	55-121	11.7	25
3 & 4-Methylphenol (m,p-Cresol)	6.94	8.24	10	69	82	58-121	17.1	25
Naphthalene	7.08	8.09	10	71	81	53-120	13.3	25
2-Nitroaniline	42.2	48.1	50	84	96	65-124	12.9	25
3-Nitroaniline	43.9	49.6	50	88	99	67-125	12.1	25
4-Nitroaniline	42.8	48.6	50	86	97	65-124	12.7	25
Nitrobenzene	8.38	10.2	10	84	102	54-125	19.3	25
2-Nitrophenol	38.1	42.7	50	76	85	56-132	11.5	25
4-Nitrophenol	31.0	34.2	50	62	68	60-126	9.74	25
N-Nitrosodiphenylamine	7.92	8.85	10	79	88	67-132	11.1	25
N-Nitrosodi-n-propylamine	6.84	7.76	10	68	78	61-120	12.5	25
Pentachlorophenol	15.4	16.7	20	77	83	50-146	8.19	25
Phenanthrene	6.68	7.56	10	67	76	67-127	12.4	25
Phenol	6.32	7.11	10	63	71	52-119	11.7	25
Pyrene	8.30	9.14	10	83	91	67-132	9.65	25
Pyridine	4.98	6.20	10	50	62	40-160	21.8	25
1,2,4-Trichlorobenzene	7.48	8.78	10	75	88	50-121	15.9	25
2,4,5-Trichlorophenol	8.05	8.90	10	81	89	62-124	9.99	25
2,4,6-Trichlorophenol	6.99	8.12	10	70	81	61-125	14.9	25

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/5/17	BatchID: 144895
Date Analyzed: 9/6/17	Extraction Method: E625
Instrument: GC17	Analytical Method: SW8270C
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-144895

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	12.6	13.3	20	63	67	29-140	5.27	25
Phenol-d5	15.5	16.4	20	78	82	38-148	5.67	25
Nitrobenzene-d5	19.5	20.9	20	97	104	31-152	6.90	25
2-Fluorobiphenyl	16.8	18.2	20	84	91	40-140	8.22	25
2,4,6-Tribromophenol	16.3	17.4	20	81	87	39-150	6.81	25
4-Terphenyl-d14	19.0	20.1	20	95	100	38-147	5.28	25



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/1/17
Date Analyzed: 9/1/17
Instrument: GC6B, GC9b
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144759
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-144759
 1708C14-024AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	35.9	0.86	1.0	40	-	90	75-128
TPH-Motor Oil (C18-C36)	ND	-	3.5	5.0	-	-	-	-
Surrogate Recovery								
C9	24.89	24.6			25	100	99	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	45.5	43.6	40	ND	114	109	71-134	4.23	30
Surrogate Recovery									
C9	26.3	26.2	25		105	105	78-126	0	30



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/1/17
Date Analyzed: 9/5/17
Instrument: GC9b
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144821
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-144821
 1709045-044AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.7	0.86	1.0	40	-	94	75-128
TPH-Motor Oil (C18-C36)	ND	-	3.5	5.0	-	-	-	-
Surrogate Recovery								
C9	24.53	24.6			25	98	99	72-122

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		14	NR	NR	-	NR	-
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	-



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/1/17	BatchID: 144766
Date Analyzed: 9/1/17 - 9/5/17	Extraction Method: SW3510C/3630C
Instrument: GC11A, GC9a	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-144766

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	45	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	150	250	-	-	-
Surrogate Recovery						
C9	585.7			625	94	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1110	1050	1000	111	105	86-142	5.40	30
Surrogate Recovery								
C9	743	554	625	119	89	68-127	29.1	30



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 10/20/17	BatchID: 147367
Date Analyzed: 10/20/17	Extraction Method: SW3510C/3630C
Instrument: GC11B	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-147367

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	45	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	150	250	-	-	-
Surrogate Recovery						
C9	547.2			625	88	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1110	1200	1000	111	120	86-142	7.96	30
Surrogate Recovery								
C9	548	552	625	88	88	68-127	0	30



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/1/17
Date Analyzed: 9/2/17
Instrument: GC9a
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144807
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-144807
 1709048-010AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	44.0	0.86	1.0	40	-	110	75-128
TPH-Motor Oil (C18-C36)	ND	-	3.5	5.0	-	-	-	-
Surrogate Recovery								
C9	27.07	27.1			25	108	108	72-122

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		790	NR	NR	-	NR	-
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	-



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/1/17
Date Analyzed: 9/5/17
Instrument: GC6B
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709045
BatchID: 144822
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-144822
 1709045-040AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.4	0.86	1.0	40	-	103	75-128
TPH-Motor Oil (C18-C36)	ND	-	3.5	5.0	-	-	-	-
Surrogate Recovery								
C9	24.56	24.0			25	98	96	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	40.5	40.3	40	ND	101	101	71-134	0	30
Surrogate Recovery									
C9	24.0	23.9	25		96	96	78-126	0	30



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709045
Date Prepared: 9/1/17	BatchID: 144791
Date Analyzed: 9/2/17	Extraction Method: SW3510C
Instrument: GC9a	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-144791

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	45	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	150	250	-	-	-
Surrogate Recovery						
C9	681.5			625	109	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1200	1200	1000	120	120	86-142	0	30
Surrogate Recovery								
C9	685	688	625	110	110	68-127	0	30



1534 Willow Pass Rd
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709045

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz
cc/3rd Party:
PO:
ProjectNo: 16-005-02; 1091 Calcot Place, Oakland

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/01/2017
Date Logged: 09/01/2017

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
1709045-001	B-8, 4 feet	Soil	8/30/2017 10:43	<input type="checkbox"/>	A		A							A		
1709045-002	B-8, 8 feet	Soil	8/30/2017 10:45	<input type="checkbox"/>	A		A									
1709045-003	B-8, 3.5-4 feet	Soil	8/30/2017 10:43	<input type="checkbox"/>					A		A			A		A
1709045-004	B-8, 7.5-8 feet	Soil	8/30/2017 10:45	<input type="checkbox"/>					A		A			A		A
1709045-005	B-8	Water	8/30/2017 10:53	<input type="checkbox"/>		C		C		B		A				E
1709045-006	B-9, 4 feet	Soil	8/30/2017 09:58	<input type="checkbox"/>	A		A									
1709045-007	B-9, 8 feet	Soil	8/30/2017 10:02	<input type="checkbox"/>	A		A									
1709045-008	B-9, 3.5-4 feet	Soil	8/30/2017 09:58	<input type="checkbox"/>					A		A			A		A
1709045-009	B-9, 7.5-8 feet	Soil	8/30/2017 10:02	<input type="checkbox"/>					A		A			A		A
1709045-010	B-9	Water	8/30/2017 10:15	<input type="checkbox"/>						B		A				
1709045-010	B-9	Water	8/30/2017 10:32	<input type="checkbox"/>		C		C								E
1709045-012	B-10, 4 feet	Soil	8/30/2017 12:10	<input type="checkbox"/>	A		A									
1709045-013	B-10, 8 feet	Soil	8/30/2017 12:13	<input type="checkbox"/>	A		A									
1709045-014	B-10, 3.5-8 feet	Soil	8/30/2017 12:10	<input type="checkbox"/>					A		A			A		A
1709045-015	B-10, 7.5-8 feet	Soil	8/30/2017 12:13	<input type="checkbox"/>					A		A			A		A

Test Legend:

1	8260B_E	2	8260B_W	3	8260GAS_E	4	8260GAS_W
5	8270_PNA_S	6	8270_PNA_W	7	8270_S	8	8270_W
9	PREFD REPORT	10	TPH(DMO)_S	11	TPH(DMO)_W	12	TPH(DMO)WSG_S

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 006A, 007A, 012A, 013A, 016A, 017A, 021A, 022A, 025A, 026A, 029A, 030A, 033A, 034A, 037A, 038A, 041A, 042A contain testgroup Gas8260_E.; The following SampIDs: 005C, 010C, 020C contain testgroup Gas8260_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.



1534 Willow Pass Rd
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709045

ClientCode: ERAS

- WaterTrax
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 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

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PO:
ProjectNo: 16-005-02; 1091 Calcot Place, Oakland

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1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/01/2017
Date Logged: 09/01/2017

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
1709045-016	B-11, 4 feet	Soil	8/30/2017 11:15	<input type="checkbox"/>	A		A									
1709045-017	B-11, 8 feet	Soil	8/30/2017 11:18	<input type="checkbox"/>	A		A									
1709045-018	B-11, 3.5-4 feet	Soil	8/30/2017 11:15	<input type="checkbox"/>					A		A			A		A
1709045-019	B-11, 7.5-8 feet	Soil	8/30/2017 11:18	<input type="checkbox"/>					A		A			A		A
1709045-020	B-11	Water	8/30/2017 11:31	<input type="checkbox"/>						B		A				
1709045-020	B-11	Water	8/30/2017 11:52	<input type="checkbox"/>		C		C								E
1709045-021	B-12, 4 feet	Soil	8/30/2017 13:55	<input type="checkbox"/>	A		A									
1709045-022	B-12, 8 feet	Soil	8/30/2017 14:00	<input type="checkbox"/>	A		A									
1709045-023	B-12, 3.5-4 feet	Soil	8/30/2017 13:55	<input type="checkbox"/>					A		A			A		A
1709045-024	B-12, 7.5-8 feet	Soil	8/30/2017 14:00	<input type="checkbox"/>					A		A			A		A
1709045-025	B-13, 4 feet	Soil	8/30/2017 13:40	<input type="checkbox"/>	A		A									
1709045-026	B-13, 8 feet	Soil	8/30/2017 13:45	<input type="checkbox"/>	A		A									
1709045-027	B-13, 3.5-4 feet	Soil	8/30/2017 13:40	<input type="checkbox"/>					A		A			A		A
1709045-028	B-13, 7.5-8 feet	Soil	8/30/2017 13:45	<input type="checkbox"/>					A		A			A		A
1709045-029	B-14, 4 feet	Soil	8/30/2017 13:27	<input type="checkbox"/>	A		A									

Test Legend:

1	8260B_E	2	8260B_W	3	8260GAS_E	4	8260GAS_W
5	8270_PNA_S	6	8270_PNA_W	7	8270_S	8	8270_W
9	PREFD REPORT	10	TPH(DMO)_S	11	TPH(DMO)_W	12	TPH(DMO)WSG_S

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 006A, 007A, 012A, 013A, 016A, 017A, 021A, 022A, 025A, 026A, 029A, 030A, 033A, 034A, 037A, 038A, 041A, 042A contain testgroup Gas8260_E.; The following SampIDs: 005C, 010C, 020C contain testgroup Gas8260_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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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709045

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Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/01/2017
Date Logged: 09/01/2017

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
1709045-030	B-14, 8 feet	Soil	8/30/2017 13:32	<input type="checkbox"/>	A		A									
1709045-031	B-14, 3.5-4 feet	Soil	8/30/2017 13:27	<input type="checkbox"/>					A		A			A		A
1709045-032	B-14, 7.5-8 feet	Soil	8/30/2017 13:32	<input type="checkbox"/>					A		A			A		A
1709045-033	B-15, 4 feet	Soil	8/30/2017 13:05	<input type="checkbox"/>	A		A									
1709045-034	B-15, 8 feet	Soil	8/30/2017 13:11	<input type="checkbox"/>	A		A									
1709045-035	B-15, 3.5-4 feet	Soil	8/30/2017 13:05	<input type="checkbox"/>					A		A			A		A
1709045-036	B-15, 7.5-8 feet	Soil	8/30/2017 13:11	<input type="checkbox"/>					A		A			A		A
1709045-037	B-16, 4 feet	Soil	8/31/2017 11:04	<input type="checkbox"/>	A		A									
1709045-038	B-16, 8 feet	Soil	8/31/2017 11:10	<input type="checkbox"/>	A		A									
1709045-039	B-16, 3.5-4 feet	Soil	8/31/2017 11:04	<input type="checkbox"/>					A		A			A		A
1709045-040	B-16, 7.5-8 feet	Soil	8/31/2017 11:10	<input type="checkbox"/>					A		A			A		A
1709045-041	EW-1, 4 feet	Soil	8/31/2017 13:55	<input type="checkbox"/>	A		A									
1709045-042	EW-1, 8 feet	Soil	8/31/2017 14:02	<input type="checkbox"/>	A		A									
1709045-043	EW-1, 3.5-4 feet	Soil	8/31/2017 13:55	<input type="checkbox"/>					A		A			A		A
1709045-044	EW-1, 7.5-8 feet	Soil	8/31/2017 14:02	<input type="checkbox"/>					A		A			A		A

Test Legend:

1	8260B_E	2	8260B_W	3	8260GAS_E	4	8260GAS_W
5	8270_PNA_S	6	8270_PNA_W	7	8270_S	8	8270_W
9	PREFD REPORT	10	TPH(DMO)_S	11	TPH(DMO)_W	12	TPH(DMO)WSG_S

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 006A, 007A, 012A, 013A, 016A, 017A, 021A, 022A, 025A, 026A, 029A, 030A, 033A, 034A, 037A, 038A, 041A, 042A contain testgroup Gas8260_E.; The following SampIDs: 005C, 010C, 020C contain testgroup Gas8260_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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CHAIN-OF-CUSTODY RECORD

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Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/01/2017

Date Logged: 09/01/2017

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					13	14	15	16	17	18	19	20	21	22	23	24	
1709045-001	B-8, 4 feet	Soil	8/30/2017 10:43	<input type="checkbox"/>													
1709045-002	B-8, 8 feet	Soil	8/30/2017 10:45	<input type="checkbox"/>													
1709045-003	B-8, 3.5-4 feet	Soil	8/30/2017 10:43	<input type="checkbox"/>													
1709045-004	B-8, 7.5-8 feet	Soil	8/30/2017 10:45	<input type="checkbox"/>													
1709045-005	B-8	Water	8/30/2017 10:53	<input type="checkbox"/>	D												
1709045-006	B-9, 4 feet	Soil	8/30/2017 09:58	<input type="checkbox"/>													
1709045-007	B-9, 8 feet	Soil	8/30/2017 10:02	<input type="checkbox"/>													
1709045-008	B-9, 3.5-4 feet	Soil	8/30/2017 09:58	<input type="checkbox"/>													
1709045-009	B-9, 7.5-8 feet	Soil	8/30/2017 10:02	<input type="checkbox"/>													
1709045-010	B-9	Water	8/30/2017 10:15	<input type="checkbox"/>													
1709045-010	B-9	Water	8/30/2017 10:32	<input type="checkbox"/>	D												
1709045-012	B-10, 4 feet	Soil	8/30/2017 12:10	<input type="checkbox"/>													
1709045-013	B-10, 8 feet	Soil	8/30/2017 12:13	<input type="checkbox"/>													
1709045-014	B-10, 3.5-8 feet	Soil	8/30/2017 12:10	<input type="checkbox"/>													
1709045-015	B-10, 7.5-8 feet	Soil	8/30/2017 12:13	<input type="checkbox"/>													

Test Legend:

13	TPH(DMO)WSG_W	14		15		16	
17		18		19		20	
21		22		23		24	

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 006A, 007A, 012A, 013A, 016A, 017A, 021A, 022A, 025A, 026A, 029A, 030A, 033A, 034A, 037A, 038A, 041A, 042A contain testgroup Gas8260_E.; The following SampIDs: 005C, 010C, 020C contain testgroup Gas8260_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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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709045

ClientCode: ERAS

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Kasey Cordoza
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1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/01/2017
Date Logged: 09/01/2017

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					13	14	15	16	17	18	19	20	21	22	23	24		
1709045-016	B-11, 4 feet	Soil	8/30/2017 11:15	<input type="checkbox"/>														
1709045-017	B-11, 8 feet	Soil	8/30/2017 11:18	<input type="checkbox"/>														
1709045-018	B-11, 3.5-4 feet	Soil	8/30/2017 11:15	<input type="checkbox"/>														
1709045-019	B-11, 7.5-8 feet	Soil	8/30/2017 11:18	<input type="checkbox"/>														
1709045-020	B-11	Water	8/30/2017 11:31	<input type="checkbox"/>														
1709045-020	B-11	Water	8/30/2017 11:52	<input type="checkbox"/>	D													
1709045-021	B-12, 4 feet	Soil	8/30/2017 13:55	<input type="checkbox"/>														
1709045-022	B-12, 8 feet	Soil	8/30/2017 14:00	<input type="checkbox"/>														
1709045-023	B-12, 3.5-4 feet	Soil	8/30/2017 13:55	<input type="checkbox"/>														
1709045-024	B-12, 7.5-8 feet	Soil	8/30/2017 14:00	<input type="checkbox"/>														
1709045-025	B-13, 4 feet	Soil	8/30/2017 13:40	<input type="checkbox"/>														
1709045-026	B-13, 8 feet	Soil	8/30/2017 13:45	<input type="checkbox"/>														
1709045-027	B-13, 3.5-4 feet	Soil	8/30/2017 13:40	<input type="checkbox"/>														
1709045-028	B-13, 7.5-8 feet	Soil	8/30/2017 13:45	<input type="checkbox"/>														
1709045-029	B-14, 4 feet	Soil	8/30/2017 13:27	<input type="checkbox"/>														

Test Legend:

13	TPH(DMO)WSG_W	14		15		16	
17		18		19		20	
21		22		23		24	

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 006A, 007A, 012A, 013A, 016A, 017A, 021A, 022A, 025A, 026A, 029A, 030A, 033A, 034A, 037A, 038A, 041A, 042A contain testgroup Gas8260_E.; The following SampIDs: 005C, 010C, 020C contain testgroup Gas8260_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.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709045

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz
cc/3rd Party:
PO:
ProjectNo: 16-005-02; 1091 Calcot Place, Oakland

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/01/2017

Date Logged: 09/01/2017

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					13	14	15	16	17	18	19	20	21	22	23	24	
1709045-030	B-14, 8 feet	Soil	8/30/2017 13:32	<input type="checkbox"/>													
1709045-031	B-14, 3.5-4 feet	Soil	8/30/2017 13:27	<input type="checkbox"/>													
1709045-032	B-14, 7.5-8 feet	Soil	8/30/2017 13:32	<input type="checkbox"/>													
1709045-033	B-15, 4 feet	Soil	8/30/2017 13:05	<input type="checkbox"/>													
1709045-034	B-15, 8 feet	Soil	8/30/2017 13:11	<input type="checkbox"/>													
1709045-035	B-15, 3.5-4 feet	Soil	8/30/2017 13:05	<input type="checkbox"/>													
1709045-036	B-15, 7.5-8 feet	Soil	8/30/2017 13:11	<input type="checkbox"/>													
1709045-037	B-16, 4 feet	Soil	8/31/2017 11:04	<input type="checkbox"/>													
1709045-038	B-16, 8 feet	Soil	8/31/2017 11:10	<input type="checkbox"/>													
1709045-039	B-16, 3.5-4 feet	Soil	8/31/2017 11:04	<input type="checkbox"/>													
1709045-040	B-16, 7.5-8 feet	Soil	8/31/2017 11:10	<input type="checkbox"/>													
1709045-041	EW-1, 4 feet	Soil	8/31/2017 13:55	<input type="checkbox"/>													
1709045-042	EW-1, 8 feet	Soil	8/31/2017 14:02	<input type="checkbox"/>													
1709045-043	EW-1, 3.5-4 feet	Soil	8/31/2017 13:55	<input type="checkbox"/>													
1709045-044	EW-1, 7.5-8 feet	Soil	8/31/2017 14:02	<input type="checkbox"/>													

Test Legend:

13	TPH(DMO)WSG_W	14		15		16	
17		18		19		20	
21		22		23		24	

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 006A, 007A, 012A, 013A, 016A, 017A, 021A, 022A, 025A, 026A, 029A, 030A, 033A, 034A, 037A, 038A, 041A, 042A contain testgroup Gas8260_E.; The following SampIDs: 005C, 010C, 020C contain testgroup Gas8260_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.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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
1709045-001A	B-8, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 10:43	5 days		<input type="checkbox"/>	
1709045-002A	B-8, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 10:45	5 days		<input type="checkbox"/>	
1709045-003A	B-8, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 10:43	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-004A	B-8, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 10:45	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-005A	B-8	Water	SW8270C (SVOCs)	1	1LA	<input type="checkbox"/>	8/30/2017 10:53	5 days	50%+	<input type="checkbox"/>	
1709045-005B	B-8	Water	SW8270C (PAHs/PNAs)	1	1LA	<input type="checkbox"/>	8/30/2017 10:53	5 days	50%+	<input type="checkbox"/>	
				1	1LA	<input type="checkbox"/>					50%+
1709045-005C	B-8	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 10:53	5 days	50%+	<input type="checkbox"/>	
				1	1LA	<input type="checkbox"/>					50%+
1709045-005D	B-8	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 10:53	5 days	50%+	<input type="checkbox"/>	

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.



WORK ORDER SUMMARY

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Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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
1709045-005D	B-8	Water		1	1LA	<input type="checkbox"/>	8/30/2017 10:53		50%+	<input type="checkbox"/>	
1709045-005E	B-8	Water	SW8015B (Diesel & Motor Oil)	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 10:53	5 days	50%+	<input type="checkbox"/>	
				1	1LA	<input type="checkbox"/>			50%+	<input type="checkbox"/>	
1709045-006A	B-9, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 9:58	5 days		<input type="checkbox"/>	
1709045-007A	B-9, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 10:02	5 days		<input type="checkbox"/>	
1709045-008A	B-9, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 9:58	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-009A	B-9, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 10:02	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-010A	B-9	Water	SW8270C (SVOCs)	1	1LA	<input type="checkbox"/>	8/30/2017 10:15	5 days	50%+	<input type="checkbox"/>	
1709045-010B	B-9	Water	SW8270C (PAHs/PNAs)	1	1LA	<input type="checkbox"/>	8/30/2017 10:15	5 days	50%+	<input type="checkbox"/>	
				1	1LA	<input type="checkbox"/>			50%+	<input type="checkbox"/>	

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: ERAS ENVIRONMENTAL, INC.

Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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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
1709045-010C	B-9	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 10:32	5 days	50%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>					
1709045-010D	B-9	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 10:32	5 days	50%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>					
1709045-010E	B-9	Water	SW8015B (Diesel & Motor Oil)	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 10:32	5 days	50%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>					
1709045-011A	B-9	Water		1	ILA	<input type="checkbox"/>	8/30/2017 10:32			<input checked="" type="checkbox"/>	
1709045-011B	B-9	Water		1	ILA	<input type="checkbox"/>	8/30/2017 10:32			<input checked="" type="checkbox"/>	
				1	ILA	<input type="checkbox"/>					
1709045-011C	B-9	Water		1	ILA	<input type="checkbox"/>	8/30/2017 10:32			<input checked="" type="checkbox"/>	
				2	VOA w/ HCl	<input type="checkbox"/>					
1709045-011D	B-9	Water		1	ILA	<input type="checkbox"/>	8/30/2017 10:32			<input checked="" type="checkbox"/>	
				2	VOA w/ HCl	<input type="checkbox"/>					
1709045-011E	B-9	Water		1	ILA	<input type="checkbox"/>	8/30/2017 10:32			<input checked="" type="checkbox"/>	
				2	VOA w/ HCl	<input type="checkbox"/>					
1709045-012A	B-10, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 12:10	5 days		<input type="checkbox"/>	

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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Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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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
1709045-013A	B-10, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 12:13	5 days		<input type="checkbox"/>	
1709045-014A	B-10, 3.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 12:10	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-015A	B-10, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 12:13	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-016A	B-11, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 11:15	5 days		<input type="checkbox"/>	
1709045-017A	B-11, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 11:18	5 days		<input type="checkbox"/>	
1709045-018A	B-11, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 11:15	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-019A	B-11, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 11:18	5 days		<input type="checkbox"/>	

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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Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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
1709045-019A	B-11, 7.5-8 feet	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 11:18	5 days		<input type="checkbox"/>	
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1709045-020A	B-11	Water	SW8270C (SVOCs)	1	ILA	<input type="checkbox"/>	8/30/2017 11:31	5 days	25%+	<input type="checkbox"/>	
1709045-020B	B-11	Water	SW8270C (PAHs/PNAs)	1	ILA	<input type="checkbox"/>	8/30/2017 11:31	5 days	25%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>			25%+	<input type="checkbox"/>	
1709045-020C	B-11	Water	TPH(g) & 8260 by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 11:52	5 days	25%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>			25%+	<input type="checkbox"/>	
1709045-020D	B-11	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 11:52	5 days	25%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>			25%+	<input type="checkbox"/>	
1709045-020E	B-11	Water	SW8015B (Diesel & Motor Oil)	2	VOA w/ HCl	<input type="checkbox"/>	8/30/2017 11:52	5 days	25%+	<input type="checkbox"/>	
				1	ILA	<input type="checkbox"/>			25%+	<input type="checkbox"/>	
1709045-021A	B-12, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:55	5 days		<input type="checkbox"/>	
1709045-022A	B-12, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 14:00	5 days		<input type="checkbox"/>	
1709045-023A	B-12, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:55	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	

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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Client Name: ERAS ENVIRONMENTAL, INC.

Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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
1709045-023A	B-12, 3.5-4 feet	Soil	SW8270C (SVOCs)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:55	5 days		<input type="checkbox"/>	
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days			
1709045-024A	B-12, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 14:00	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days			
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days			
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days			
1709045-025A	B-13, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:40	5 days		<input type="checkbox"/>	
1709045-026A	B-13, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:45	5 days		<input type="checkbox"/>	
1709045-027A	B-13, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:40	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days			
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days			
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days			
1709045-028A	B-13, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:45	5 days		<input type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>		5 days			
			SW8270C (SVOCs)			<input type="checkbox"/>		5 days			
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>		5 days			

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Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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		
1709045-029A	B-14, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:27	5 days		<input type="checkbox"/>			
1709045-030A	B-14, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:32	5 days		<input type="checkbox"/>			
1709045-031A	B-14, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:27	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1709045-032A	B-14, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:32	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1709045-033A	B-15, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:05	5 days		<input type="checkbox"/>			
1709045-034A	B-15, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/30/2017 13:11	5 days		<input type="checkbox"/>			
1709045-035A	B-15, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:05	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>

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.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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		
1709045-036A	B-15, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/30/2017 13:11	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1709045-037A	B-16, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/31/2017 11:04	5 days		<input type="checkbox"/>			
1709045-038A	B-16, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/31/2017 11:10	5 days		<input type="checkbox"/>			
1709045-039A	B-16, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/31/2017 11:04	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1709045-040A	B-16, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/31/2017 11:10	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1709045-041A	EW-1, 4 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/31/2017 13:55	5 days		<input type="checkbox"/>			
1709045-042A	EW-1, 8 feet	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	8/31/2017 14:02	5 days		<input type="checkbox"/>			

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.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709045

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/1/2017

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		
1709045-043A	EW-1, 3.5-4 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/31/2017 13:55	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1709045-044A	EW-1, 7.5-8 feet	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	8/31/2017 14:02	5 days		<input type="checkbox"/>			
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>

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.

CHAIN OF CUSTODY FORM

1709045

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time:	<input type="checkbox"/> Rush	<input type="checkbox"/> 24Hr	<input type="checkbox"/> 48 Hr	<input type="checkbox"/> 72 Hr	<input checked="" type="checkbox"/> 5 Day
Geotracker:	<input checked="" type="checkbox"/> X	<input type="checkbox"/> EDF	<input type="checkbox"/> Excel	<input type="checkbox"/> Write On (DW)	

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: greg@eras.biz

Telephone: 510-247-9885 **Fax:** 510-886-5399

Project # 16-005-02

Project location 1091 Calcot Place, Oakland

Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-8, 4 feet	B-8	8/30/2017	10:43	1	ENC	X							X	
B-8, 8 feet	B-8	8/30/2017	10:45	1	ENC	X							X	
B-8, 3.5-4 feet	B-8	8/30/2017	10:43	1	Tube	X							X	
B-8, 7.5-8 feet	B-8	8/30/2017	10:45	1	Tube	X							X	
B-8	B-8	8/30/2017	10:53	3	Liter		X							X
B-8	B-8	8/30/2017	10:53	6	VOA		X		X					
B-9, 4 feet	B-9	8/30/2017	9:58	1	ENC	X							X	
B-9, 8 feet	B-9	8/30/2017	10:02	1	ENC	X							X	
B-9, 3.5-4 feet	B-9	8/30/2017	9:58	1	Tube	X							X	
B-9, 7.5-8 feet	B-9	8/30/2017	10:02	1	Tube	X							X	
B-9	B-9	8/30/2017	10:15	3	Liter		X							X
B-9	B-9	8/30/2017	10:32	6	VOA		X		X					

		Analysis Requested										Other	Comments			
TPH-gro, and VOCs by EPA Method 8260B including naphthalene	TPH-dro, TPH-oro by EPA Method 8015 with silica gel clean up															
TPH-dro, TPH-oro by EPA Method 8015 without silica gel cleanup	SVOCs by EPA Method 8270, and PAHs by Select Ion Monitoring															
X																
X																
	X	X	X													
	X	X	X													
	X	X	X													
X																
X																
	X	X	X													
	X	X	X													
	X	X	X													
X																

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by:	Date: 7/1/17	Time: 1040	Received by:	Date: 9/1/17	Time: 1500
Relinquished by:	Date: 9/1/17	Time: 1500	Received by:		
Relinquished by:	Date:	Time:	Received by:		

ICE/t _e Condition _____ Head space absent _____ Dechlorinated in lab _____ Appropriate containers _____ Preserved in Lab _____ Preservation _____	Comments: Please PDF, Please Provide J Flags, Geotracker# T10000006533 VOA's O&G Metals Other pH<2
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CHAIN OF CUSTODY FORM

1709045

Turnaround Time:	<input type="checkbox"/> Rush	<input type="checkbox"/> 24Hr	<input type="checkbox"/> 48 Hr	<input type="checkbox"/> 72 Hr	<input checked="" type="checkbox"/> 5 Day
Geotracker:	<input checked="" type="checkbox"/> EDF	<input type="checkbox"/> Excel	<input type="checkbox"/> Write On (DW)		

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: greg@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399
 Project # 16-005-02
 Project location 1091 Calcot Place, Oakland
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-10, 4 feet	B-10	8/30/2017	12:10	1	ENC	X							X	
B-10, 8 feet	B-10	8/30/2017	12:13	1	ENC	X							X	
B-10, 3.5-4 feet	B-10	8/30/2017	12:10	1	Tube	X							X	
B-10, 7.5-8 feet	B-10	8/30/2017	12:13	1	Tube	X							X	
B-11, 4 feet	B-11	8/30/2017	11:15	1	ENC	X							X	
B-11, 8 feet	B-11	8/30/2017	11:18	1	ENC	X							X	
B-11, 3.5-4 feet	B-11	8/30/2017	11:15	1	Tube	X							X	
B-11, 7.5-8 feet	B-11	8/30/2017	11:18	1	Tube	X							X	
B-11	B-11	8/30/2017	11:31	3	Liter		X							X
B-11	B-11	8/30/2017	11:52	6	VOA		X							

	Analysis Requested	Other	Comments
TPH-gro, and VOCs by EPA Method 8260B including naphthalene TPH-dro, TPH-oro by EPA Method 8015 with silica gel clean up TPH-dro, TPH-oro by EPA Method 8015 without silica gel clean up SVOCs by EPA Method 8270, and PAHs by Select Ion Monitoring			
X			
X			
	X X X		
	X X X		
X			
X			
	X X X		
	X X X		
	X X X		
X			

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by:	Date: <u>9/1/17</u>	Time: <u>1040</u>	Received by:	Date: <u>9/1/17</u>	Time: <u>1500</u>
Relinquished by:	Date: <u>9/1/17</u>	Time: <u>1500</u>	Received by:		
Relinquished by:	Date:	Time:	Received by:		

ICE/t+ Condition _____ Head space absent _____ Dechlorinated in lab _____ Appropriate containers _____ Preserved in Lab _____ Preservation _____	Comments: Please PDF, Please Provide J Flags, Geotracker# T10000006533 VOA's O&G Metals Other pH<2
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CHAIN OF CUSTODY FORM

1709045

Turnaround Time:	<input type="checkbox"/> Rush	<input type="checkbox"/> 24Hr	<input type="checkbox"/> 48 Hr	<input type="checkbox"/> 72 Hr	<input checked="" type="checkbox"/> 5 Day
Geotracker:	<input checked="" type="checkbox"/> EDF	<input type="checkbox"/> Excel	<input type="checkbox"/> Write On (DW)		

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Report To: ERAS **Bill To:** ERAS
Company: ERAS Environmental, Inc.

Email: greg@eras.biz

Telephone: 510-247-9885 **Fax:** 510-886-5399

Project # 16-005-02

Project location 1091 Calcot Place, Oakland

Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-12, 4 feet	B-12	8/30/2017	1:55	1	ENC	X							X	
B-12, 8 feet	B-12	8/30/2017	2:00	1	ENC	X							X	
B-12, 3.5-4 feet	B-12	8/30/2017	1:55	1	Tube	X							X	
B-12, 7.5-8 feet	B-12	8/30/2017	2:00	1	Tube	X							X	
B-13, 4 feet	B-13	8/30/2017	1:40	1	ENC	X							X	
B-13, 8 feet	B-13	8/30/2017	1:45	1	ENC	X							X	
B-13, 3.5-4 feet	B-13	8/30/2017	1:40	1	Tube	X							X	
B-13, 7.5-8 feet	B-13	8/30/2017	1:45	1	Tube	X							X	
B-14, 4 feet	B-14	8/30/2017	1:27	1	ENC	X							X	
B-14, 8 feet	B-14	8/30/2017	1:32	1	ENC	X							X	
B-14, 3.5-4 feet	B-14	8/30/2017	1:27	1	Tube	X							X	
B-14, 7.5-8 feet	B-14	8/30/2017	1:32	1	Tube	X							X	

	Analysis Requested										Other	Comments		
TPH-gro, and VOCs by EPA Method 8260B including naphthalene	<input checked="" type="checkbox"/>													
TPH-dro, TPH-oro by EPA Method 8015 with silica gel clean up	<input checked="" type="checkbox"/>													
TPH-dro, TPH-oro by EPA Method 8015 without silica gel clean up														
SVOCs by EPA Method 8270, and PAHs by Select Ion Monitoring														

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by:	Date: 9/1/17	Time: 1040	Received by:		
Relinquished by:	Date: 9/1	Time: 1500	Received by:		
Relinquished by:	Date:	Time:	Received by:		

ICE/Le Condition _____ Head space absent _____ Dechlorinated in lab _____ Appropriate containers _____ Preserved in Lab _____ Preservation _____	Comments: Please PDF, Please Provide J Flags, Geotracker# T10000006533 VOA's O&G Metals Other pH<2
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1709045

CHAIN OF CUSTODY FORM

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Email: greg@eras.biz

Telephone: 510-247-9885 Fax: 510-886-5399

Project # 16-005-02

Project location 1091 Calcot Place, Oakland

Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-15, 4 feet	B-15	8/30/2017	1:05	1	ENC	X							X	
B-15, 8 feet	B-15	8/30/2017	1:11	1	ENC	X							X	
B-15, 3.5-4 feet	B-15	8/30/2017	1:05	1	Tube	X							X	
B-15, 7.5-8 feet	B-15	8/30/2017	1:11	1	Tube	X							X	
B-16, 4 feet	B-16	8/31/2017	11:04	1	ENC	X							X	
B-16, 8 feet	B-16	8/31/2017	11:10	1	ENC	X							X	
B-16, 3.5-4 feet	B-16	8/31/2017	11:04	1	Tube	X							X	
B-16, 7.5-8 feet	B-16	8/31/2017	11:10	1	Tube	X							X	
EW-1, 4 feet	EW-1	8/31/2017	1:55	1	ENC	X							X	
EW-1, 8 feet	EW-1	8/31/2017	2:02	1	ENC	X							X	
EW-1, 3.5-4 feet	EW-1	8/31/2017	1:55	1	Tube	X							X	
EW-1, 7.5-8 feet	EW-1	8/31/2017	2:02	1	Tube	X							X	

Analysis Requested												Other	Comments				
TPH-gro, and VOCs by EPA Method 8260B including naphthalene																	
TPH-dro, TPH-oro by EPA Method 8015 with silica gel clean up																	
TPH-dro, TPH-oro by EPA Method 8015 without silica gel clean up																	
SVOCs by EPA Method 8270, and PAHs by Select Ion Monitoring																	

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by:	Date: <u>9/11/17</u>	Time: <u>1040</u>	Received by:	Date: <u>9/11</u>	Time: <u>1500</u>
Relinquished by:	Date: <u>9/11</u>	Time: <u>1500</u>	Received by:		
Relinquished by:	Date:	Time:	Received by:		

ICE/t+ Condition _____
 Head space absent _____
 Dechlorinated in lab _____
 Appropriate containers _____
 Preserved in Lab _____
 Preservation _____

VOA's O&G Metals Other
 pH<2

Comments: Please PDF, Please Provide J Flags, Geotracker# T10000006533



Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.**
 Project Name: **16-005-02; 1091 Calcot Place, Oakland**
 WorkOrder No: **1709045** Matrix: Soil/Water
 Carrier:

Date and Time Received: **9/1/2017 15:00**
 Date Logged: **9/1/2017**
 Received by: **Alexandra Iniguez**
 Logged by: **Alexandra Iniguez**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
Sample/Temp Blank temperature	Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments: Method SW8260B (VOCs) (Encore) was received past its 2-day holding time. Method SW8260B (TPH(g) (Encore)) was received past its 2-day holding time. Method SW8015B (Diesel & Motor Oil) was received past its 7-day holding time. Method SW8015B (TPH-d,mo w/ S.G. Clean-Up) was received past its 7-day holding time. Method SW8270C (SVOCs) was received past its 7-day holding time. Method SW8270C (PAHs/PNAs) was received past its 7-day holding time.



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1709972

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Greg Munsell

Project P.O.:

Project Name: 16-005-02; 1091 Calcot Place, Oakland

Project Received: 09/22/2017

Analytical Report reviewed & approved for release on 10/02/2017 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.





Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 16-005-02; 1091 Calcot Place, Oakland
WorkOrder: 1709972

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
ERS	External reference sample. Second source calibration verification.
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)



Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 16-005-02; 1091 Calcot Place, Oakland
WorkOrder: 1709972

Analytical Qualifiers

B Analyte detected in the associated Method Blank and in the sample
J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
S Surrogate spike recovery outside accepted recovery limits
c2 Surrogate recovery outside of the control limits due to matrix interference.
e2 Diesel range compounds are significant; no recognizable pattern
e7 Oil range compounds are significant
e11/e4 Pattern resembles stoddard solvent/mineral spirit; and/or Gasoline range compounds are significant.

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/22/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC10 09261716.D	145978

Analytes	Result	MDL	RL	DF	Date Analyzed
Acetone	ND	0.039	0.10	1	09/26/2017 17:40
tert-Amyl methyl ether (TAME)	ND	0.0010	0.0050	1	09/26/2017 17:40
Benzene	ND	0.0016	0.0050	1	09/26/2017 17:40
Bromobenzene	ND	0.0017	0.0050	1	09/26/2017 17:40
Bromochloromethane	ND	0.0015	0.0050	1	09/26/2017 17:40
Bromodichloromethane	ND	0.0012	0.0050	1	09/26/2017 17:40
Bromoform	ND	0.00080	0.0050	1	09/26/2017 17:40
Bromomethane	ND	0.0020	0.0050	1	09/26/2017 17:40
2-Butanone (MEK)	ND	0.0054	0.020	1	09/26/2017 17:40
t-Butyl alcohol (TBA)	ND	0.0053	0.050	1	09/26/2017 17:40
n-Butyl benzene	ND	0.0035	0.0050	1	09/26/2017 17:40
sec-Butyl benzene	ND	0.0034	0.0050	1	09/26/2017 17:40
tert-Butyl benzene	ND	0.0030	0.0050	1	09/26/2017 17:40
Carbon Disulfide	ND	0.0017	0.0050	1	09/26/2017 17:40
Carbon Tetrachloride	ND	0.0017	0.0050	1	09/26/2017 17:40
Chlorobenzene	ND	0.0018	0.0050	1	09/26/2017 17:40
Chloroethane	ND	0.0016	0.0050	1	09/26/2017 17:40
Chloroform	ND	0.0016	0.0050	1	09/26/2017 17:40
Chloromethane	ND	0.0017	0.0050	1	09/26/2017 17:40
2-Chlorotoluene	ND	0.0022	0.0050	1	09/26/2017 17:40
4-Chlorotoluene	ND	0.0021	0.0050	1	09/26/2017 17:40
Dibromochloromethane	ND	0.0011	0.0050	1	09/26/2017 17:40
1,2-Dibromo-3-chloropropane	ND	0.0012	0.0040	1	09/26/2017 17:40
1,2-Dibromoethane (EDB)	ND	0.0013	0.0040	1	09/26/2017 17:40
Dibromomethane	ND	0.0014	0.0050	1	09/26/2017 17:40
1,2-Dichlorobenzene	ND	0.0014	0.0050	1	09/26/2017 17:40
1,3-Dichlorobenzene	ND	0.0018	0.0050	1	09/26/2017 17:40
1,4-Dichlorobenzene	ND	0.0018	0.0050	1	09/26/2017 17:40
Dichlorodifluoromethane	ND	0.0011	0.0050	1	09/26/2017 17:40
1,1-Dichloroethane	ND	0.0017	0.0050	1	09/26/2017 17:40
1,2-Dichloroethane (1,2-DCA)	ND	0.0014	0.0040	1	09/26/2017 17:40
1,1-Dichloroethene	ND	0.0017	0.0050	1	09/26/2017 17:40
cis-1,2-Dichloroethene	ND	0.0015	0.0050	1	09/26/2017 17:40
trans-1,2-Dichloroethene	ND	0.0016	0.0050	1	09/26/2017 17:40
1,2-Dichloropropane	ND	0.0014	0.0050	1	09/26/2017 17:40
1,3-Dichloropropane	ND	0.0016	0.0050	1	09/26/2017 17:40
2,2-Dichloropropane	ND	0.0013	0.0050	1	09/26/2017 17:40

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Analytical Report

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Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC10 09261716.D	145978

Analytes	Result	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0018	0.0050	1	09/26/2017 17:40
cis-1,3-Dichloropropene	ND	0.0015	0.0050	1	09/26/2017 17:40
trans-1,3-Dichloropropene	ND	0.0014	0.0050	1	09/26/2017 17:40
Diisopropyl ether (DIPE)	ND	0.0014	0.0050	1	09/26/2017 17:40
Ethylbenzene	ND	0.0020	0.0050	1	09/26/2017 17:40
Ethyl tert-butyl ether (ETBE)	ND	0.0013	0.0050	1	09/26/2017 17:40
Freon 113	ND	0.0016	0.0050	1	09/26/2017 17:40
Hexachlorobutadiene	ND	0.0050	0.0050	1	09/26/2017 17:40
Hexachloroethane	ND	0.0025	0.0050	1	09/26/2017 17:40
2-Hexanone	ND	0.0025	0.0050	1	09/26/2017 17:40
Isopropylbenzene	ND	0.0022	0.0050	1	09/26/2017 17:40
4-Isopropyl toluene	ND	0.0031	0.0050	1	09/26/2017 17:40
Methyl-t-butyl ether (MTBE)	ND	0.0013	0.0050	1	09/26/2017 17:40
Methylene chloride	ND	0.0036	0.0050	1	09/26/2017 17:40
4-Methyl-2-pentanone (MIBK)	ND	0.00080	0.0050	1	09/26/2017 17:40
Naphthalene	ND	0.00060	0.0050	1	09/26/2017 17:40
n-Propyl benzene	ND	0.0029	0.0050	1	09/26/2017 17:40
Styrene	ND	0.0014	0.0050	1	09/26/2017 17:40
1,1,1,2-Tetrachloroethane	ND	0.0016	0.0050	1	09/26/2017 17:40
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0050	1	09/26/2017 17:40
Tetrachloroethene	ND	0.0023	0.0050	1	09/26/2017 17:40
Toluene	ND	0.0022	0.0050	1	09/26/2017 17:40
1,2,3-Trichlorobenzene	ND	0.00070	0.0050	1	09/26/2017 17:40
1,2,4-Trichlorobenzene	ND	0.0011	0.0050	1	09/26/2017 17:40
1,1,1-Trichloroethane	ND	0.0018	0.0050	1	09/26/2017 17:40
1,1,2-Trichloroethane	ND	0.0016	0.0050	1	09/26/2017 17:40
Trichloroethene	ND	0.0017	0.0050	1	09/26/2017 17:40
Trichlorofluoromethane	ND	0.0016	0.0050	1	09/26/2017 17:40
1,2,3-Trichloropropane	ND	0.0019	0.0050	1	09/26/2017 17:40
1,2,4-Trimethylbenzene	ND	0.0024	0.0050	1	09/26/2017 17:40
1,3,5-Trimethylbenzene	ND	0.0027	0.0050	1	09/26/2017 17:40
Vinyl Chloride	ND	0.0015	0.0050	1	09/26/2017 17:40
Xylenes, Total	ND	0.0025	0.0050	1	09/26/2017 17:40

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WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC10 09261716.D	145978

Analytes	Result	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>	
Dibromofluoromethane	109		82-136		09/26/2017 17:40
Toluene-d8	122		92-139		09/26/2017 17:40
4-BFB	93		82-135		09/26/2017 17:40
Benzene-d6	95		55-122		09/26/2017 17:40
Ethylbenzene-d10	107		58-141		09/26/2017 17:40
1,2-DCB-d4	84		51-107		09/26/2017 17:40

Analyst(s): AK



Analytical Report

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WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
EW-1	1709972-001D	Water	09/22/2017 08:31	GC10 09271726.D	146238	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acetone	ND		1.70	10	1	09/27/2017 23:44
tert-Amyl methyl ether (TAME)	ND		0.220	0.50	1	09/27/2017 23:44
Benzene	ND		0.0510	0.50	1	09/27/2017 23:44
Bromobenzene	ND		0.0600	0.50	1	09/27/2017 23:44
Bromochloromethane	ND		0.0900	0.50	1	09/27/2017 23:44
Bromodichloromethane	ND		0.200	0.50	1	09/27/2017 23:44
Bromoform	ND		0.0660	0.50	1	09/27/2017 23:44
Bromomethane	ND		0.160	0.50	1	09/27/2017 23:44
2-Butanone (MEK)	ND		0.490	2.0	1	09/27/2017 23:44
t-Butyl alcohol (TBA)	ND		0.940	2.0	1	09/27/2017 23:44
n-Butyl benzene	ND		0.0840	0.50	1	09/27/2017 23:44
sec-Butyl benzene	ND		0.0600	0.50	1	09/27/2017 23:44
tert-Butyl benzene	ND		0.0500	0.50	1	09/27/2017 23:44
Carbon Disulfide	ND		0.0660	0.50	1	09/27/2017 23:44
Carbon Tetrachloride	ND		0.0690	0.50	1	09/27/2017 23:44
Chlorobenzene	ND		0.0500	0.50	1	09/27/2017 23:44
Chloroethane	ND		0.310	0.50	1	09/27/2017 23:44
Chloroform	ND		0.0640	0.50	1	09/27/2017 23:44
Chloromethane	ND		0.130	0.50	1	09/27/2017 23:44
2-Chlorotoluene	ND		0.0700	0.50	1	09/27/2017 23:44
4-Chlorotoluene	ND		0.0700	0.50	1	09/27/2017 23:44
Dibromochloromethane	ND		0.0800	0.50	1	09/27/2017 23:44
1,2-Dibromo-3-chloropropane	ND		0.120	0.20	1	09/27/2017 23:44
1,2-Dibromoethane (EDB)	ND		0.120	0.50	1	09/27/2017 23:44
Dibromomethane	ND		0.0800	0.50	1	09/27/2017 23:44
1,2-Dichlorobenzene	ND		0.0800	0.50	1	09/27/2017 23:44
1,3-Dichlorobenzene	ND		0.0710	0.50	1	09/27/2017 23:44
1,4-Dichlorobenzene	ND		0.0720	0.50	1	09/27/2017 23:44
Dichlorodifluoromethane	ND		0.0630	0.50	1	09/27/2017 23:44
1,1-Dichloroethane	ND		0.0600	0.50	1	09/27/2017 23:44
1,2-Dichloroethane (1,2-DCA)	ND		0.0900	0.50	1	09/27/2017 23:44
1,1-Dichloroethene	ND		0.0860	0.50	1	09/27/2017 23:44
cis-1,2-Dichloroethene	0.074	J	0.0500	0.50	1	09/27/2017 23:44
trans-1,2-Dichloroethene	ND		0.0600	0.50	1	09/27/2017 23:44
1,2-Dichloropropane	ND		0.0550	0.50	1	09/27/2017 23:44
1,3-Dichloropropane	ND		0.100	0.50	1	09/27/2017 23:44
2,2-Dichloropropane	ND		0.100	0.50	1	09/27/2017 23:44

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WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
EW-1	1709972-001D	Water	09/22/2017 08:31	GC10 09271726.D	146238	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0600	0.50	1	09/27/2017 23:44
cis-1,3-Dichloropropene	ND		0.0900	0.50	1	09/27/2017 23:44
trans-1,3-Dichloropropene	ND		0.0700	0.50	1	09/27/2017 23:44
Diisopropyl ether (DIPE)	ND		0.0700	0.50	1	09/27/2017 23:44
Ethylbenzene	ND		0.0500	0.50	1	09/27/2017 23:44
Ethyl tert-butyl ether (ETBE)	ND		0.0700	0.50	1	09/27/2017 23:44
Freon 113	ND		0.0660	0.50	1	09/27/2017 23:44
Hexachlorobutadiene	ND		0.0850	0.50	1	09/27/2017 23:44
Hexachloroethane	ND		0.0600	0.50	1	09/27/2017 23:44
2-Hexanone	ND		0.440	0.50	1	09/27/2017 23:44
Isopropylbenzene	ND		0.0700	0.50	1	09/27/2017 23:44
4-Isopropyl toluene	ND		0.0500	0.50	1	09/27/2017 23:44
Methyl-t-butyl ether (MTBE)	0.46	J	0.100	0.50	1	09/27/2017 23:44
Methylene chloride	0.14	JB	0.0520	0.50	1	09/27/2017 23:44
4-Methyl-2-pentanone (MIBK)	ND		0.240	0.50	1	09/27/2017 23:44
Naphthalene	ND		0.160	0.50	1	09/27/2017 23:44
n-Propyl benzene	ND		0.0600	0.50	1	09/27/2017 23:44
Styrene	0.097	J	0.0600	0.50	1	09/27/2017 23:44
1,1,1,2-Tetrachloroethane	ND		0.0700	0.50	1	09/27/2017 23:44
1,1,2,2-Tetrachloroethane	ND		0.110	0.50	1	09/27/2017 23:44
Tetrachloroethene	ND		0.0820	0.50	1	09/27/2017 23:44
Toluene	0.052	J	0.0400	0.50	1	09/27/2017 23:44
1,2,3-Trichlorobenzene	ND		0.110	0.50	1	09/27/2017 23:44
1,2,4-Trichlorobenzene	ND		0.0860	0.50	1	09/27/2017 23:44
1,1,1-Trichloroethane	ND		0.0500	0.50	1	09/27/2017 23:44
1,1,2-Trichloroethane	ND		0.0800	0.50	1	09/27/2017 23:44
Trichloroethene	0.31	J	0.0600	0.50	1	09/27/2017 23:44
Trichlorofluoromethane	ND		0.0470	0.50	1	09/27/2017 23:44
1,2,3-Trichloropropane	ND		0.140	0.50	1	09/27/2017 23:44
1,2,4-Trimethylbenzene	ND		0.0650	0.50	1	09/27/2017 23:44
1,3,5-Trimethylbenzene	ND		0.0700	0.50	1	09/27/2017 23:44
Vinyl Chloride	ND		0.0700	0.50	1	09/27/2017 23:44
Xylenes, Total	ND		0.250	0.50	1	09/27/2017 23:44

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WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1	1709972-001D	Water	09/22/2017 08:31	GC10 09271726.D	146238

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
Dibromofluoromethane	112			78-134		09/27/2017 23:44
Toluene-d8	110			82-120		09/27/2017 23:44
4-BFB	89			69-131		09/27/2017 23:44

Analyst(s): AK



Analytical Report

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WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC10 09261716.D	145978

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	0.25	1	09/26/2017 17:40
Surrogates	REC (%)	Limits			
Dibromofluoromethane	111	70-130			09/26/2017 17:40
Benzene-D6	87	60-140			09/26/2017 17:40

Analyst(s): AK



Analytical Report

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Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1	1709972-001D	Water	09/22/2017 08:31	GC10 09271726.D	146238

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	11	50	1	09/27/2017 23:44

Surrogates	REC (%)	Limits
Dibromofluoromethane	115	70-130

Analyst(s): AK



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/26/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC17 09291729.D	146125

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.0026	0.010	1	09/29/2017 22:57
Acenaphthylene	ND		0.0034	0.010	1	09/29/2017 22:57
Anthracene	ND		0.0029	0.010	1	09/29/2017 22:57
Benzo (a) anthracene	0.0092	JB	0.0017	0.010	1	09/29/2017 22:57
Benzo (a) pyrene	ND		0.0027	0.010	1	09/29/2017 22:57
Benzo (b) fluoranthene	0.0034	JB	0.0015	0.010	1	09/29/2017 22:57
Benzo (g,h,i) perylene	0.0047	JB	0.0033	0.010	1	09/29/2017 22:57
Benzo (k) fluoranthene	0.0056	JB	0.0016	0.010	1	09/29/2017 22:57
Chrysene	0.0067	JB	0.0024	0.010	1	09/29/2017 22:57
Dibenzo (a,h) anthracene	ND		0.0050	0.010	1	09/29/2017 22:57
Fluoranthene	ND		0.0040	0.010	1	09/29/2017 22:57
Fluorene	ND		0.0060	0.010	1	09/29/2017 22:57
Indeno (1,2,3-cd) pyrene	ND		0.0049	0.010	1	09/29/2017 22:57
1-Methylnaphthalene	ND		0.0029	0.010	1	09/29/2017 22:57
2-Methylnaphthalene	ND		0.0020	0.010	1	09/29/2017 22:57
Naphthalene	ND		0.0016	0.010	1	09/29/2017 22:57
Phenanthrene	ND		0.0035	0.010	1	09/29/2017 22:57
Pyrene	ND		0.0045	0.010	1	09/29/2017 22:57
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
1-Fluoronaphthalene	123			30-130		09/29/2017 22:57
2-Fluorobiphenyl	128			30-130		09/29/2017 22:57

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3510C
Analytical Method: SW8270C-SIM
Unit: µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1	1709972-001C	Water	09/22/2017 08:40	GC35 09251720.D	146081

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.26	0.50	1	09/25/2017 17:50
Acenaphthylene	ND		0.23	0.50	1	09/25/2017 17:50
Anthracene	ND		0.24	0.50	1	09/25/2017 17:50
Benzo (a) anthracene	0.25	JB	0.23	0.50	1	09/25/2017 17:50
Benzo (a) pyrene	ND		0.20	0.50	1	09/25/2017 17:50
Benzo (b) fluoranthene	ND		0.19	0.50	1	09/25/2017 17:50
Benzo (g,h,i) perylene	ND		0.24	0.50	1	09/25/2017 17:50
Benzo (k) fluoranthene	ND		0.21	0.50	1	09/25/2017 17:50
Chrysene	ND		0.26	0.50	1	09/25/2017 17:50
Dibenzo (a,h) anthracene	ND		0.17	0.50	1	09/25/2017 17:50
Fluoranthene	ND		0.23	0.50	1	09/25/2017 17:50
Fluorene	ND		0.25	0.50	1	09/25/2017 17:50
Indeno (1,2,3-cd) pyrene	ND		0.18	0.50	1	09/25/2017 17:50
1-Methylnaphthalene	ND		0.26	0.50	1	09/25/2017 17:50
2-Methylnaphthalene	ND		0.26	0.50	1	09/25/2017 17:50
Naphthalene	ND		0.26	0.50	1	09/25/2017 17:50
Phenanthrene	ND		0.27	0.50	1	09/25/2017 17:50
Pyrene	ND		0.22	0.50	1	09/25/2017 17:50
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
1-Fluoronaphthalene	124			30-130		09/25/2017 17:50
2-Fluorobiphenyl	119			30-130		09/25/2017 17:50

Analyst(s): REB



Analytical Report

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Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC17 09251711.D	146082	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.14	0.25	1	09/25/2017 18:43
Acenaphthylene	ND		0.14	0.25	1	09/25/2017 18:43
Acetochlor	ND		0.25	0.25	1	09/25/2017 18:43
Anthracene	ND		0.14	0.25	1	09/25/2017 18:43
Benzidine	ND		0.23	1.3	1	09/25/2017 18:43
Benzo (a) anthracene	ND		0.14	0.25	1	09/25/2017 18:43
Benzo (a) pyrene	ND		0.14	0.25	1	09/25/2017 18:43
Benzo (b) fluoranthene	ND		0.14	0.25	1	09/25/2017 18:43
Benzo (g,h,i) perylene	ND		0.15	0.25	1	09/25/2017 18:43
Benzo (k) fluoranthene	ND		0.16	0.25	1	09/25/2017 18:43
Benzyl Alcohol	ND		0.51	1.3	1	09/25/2017 18:43
1,1-Biphenyl	ND		0.15	0.25	1	09/25/2017 18:43
Bis (2-chloroethoxy) Methane	ND		0.14	0.25	1	09/25/2017 18:43
Bis (2-chloroethyl) Ether	ND		0.13	0.25	1	09/25/2017 18:43
Bis (2-chloroisopropyl) Ether	ND		0.12	0.25	1	09/25/2017 18:43
Bis (2-ethylhexyl) Adipate	ND		0.25	0.25	1	09/25/2017 18:43
Bis (2-ethylhexyl) Phthalate	ND		0.13	0.25	1	09/25/2017 18:43
4-Bromophenyl Phenyl Ether	ND		0.16	0.25	1	09/25/2017 18:43
Butylbenzyl Phthalate	ND		0.13	0.25	1	09/25/2017 18:43
4-Chloroaniline	ND		0.13	0.50	1	09/25/2017 18:43
4-Chloro-3-methylphenol	ND		0.12	0.25	1	09/25/2017 18:43
2-Chloronaphthalene	ND		0.16	0.25	1	09/25/2017 18:43
2-Chlorophenol	ND		0.14	0.25	1	09/25/2017 18:43
4-Chlorophenyl Phenyl Ether	ND		0.15	0.25	1	09/25/2017 18:43
Chrysene	ND		0.14	0.25	1	09/25/2017 18:43
Dibenzo (a,h) anthracene	ND		0.16	0.25	1	09/25/2017 18:43
Dibenzofuran	ND		0.13	0.25	1	09/25/2017 18:43
Di-n-butyl Phthalate	ND		0.13	0.25	1	09/25/2017 18:43
1,2-Dichlorobenzene	ND		0.12	0.25	1	09/25/2017 18:43
1,3-Dichlorobenzene	ND		0.14	0.25	1	09/25/2017 18:43
1,4-Dichlorobenzene	ND		0.13	0.25	1	09/25/2017 18:43
3,3-Dichlorobenzidine	ND		0.12	0.50	1	09/25/2017 18:43
2,4-Dichlorophenol	ND		0.13	0.25	1	09/25/2017 18:43
Diethyl Phthalate	ND		0.14	0.25	1	09/25/2017 18:43
2,4-Dimethylphenol	ND		0.13	0.25	1	09/25/2017 18:43
Dimethyl Phthalate	ND		0.14	0.25	1	09/25/2017 18:43
4,6-Dinitro-2-methylphenol	0.96	J	0.13	1.3	1	09/25/2017 18:43

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC17 09251711.D	146082	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		1.3	6.3	1	09/25/2017 18:43
2,4-Dinitrotoluene	ND		0.13	0.25	1	09/25/2017 18:43
2,6-Dinitrotoluene	ND		0.14	0.25	1	09/25/2017 18:43
Di-n-octyl Phthalate	ND		0.14	0.50	1	09/25/2017 18:43
1,2-Diphenylhydrazine	ND		0.16	0.25	1	09/25/2017 18:43
Fluoranthene	ND		0.13	0.25	1	09/25/2017 18:43
Fluorene	ND		0.14	0.25	1	09/25/2017 18:43
Hexachlorobenzene	ND		0.17	0.25	1	09/25/2017 18:43
Hexachlorobutadiene	ND		0.15	0.25	1	09/25/2017 18:43
Hexachlorocyclopentadiene	ND		0.73	1.3	1	09/25/2017 18:43
Hexachloroethane	ND		0.14	0.25	1	09/25/2017 18:43
Indeno (1,2,3-cd) pyrene	ND		0.14	0.25	1	09/25/2017 18:43
Isophorone	ND		0.12	0.25	1	09/25/2017 18:43
2-Methylnaphthalene	ND		0.14	0.25	1	09/25/2017 18:43
2-Methylphenol (o-Cresol)	ND		0.14	0.25	1	09/25/2017 18:43
3 & 4-Methylphenol (m,p-Cresol)	ND		0.12	0.25	1	09/25/2017 18:43
Naphthalene	ND		0.13	0.25	1	09/25/2017 18:43
2-Nitroaniline	ND		0.62	1.3	1	09/25/2017 18:43
3-Nitroaniline	ND		0.59	1.3	1	09/25/2017 18:43
4-Nitroaniline	ND		0.55	1.3	1	09/25/2017 18:43
Nitrobenzene	ND		0.14	0.25	1	09/25/2017 18:43
2-Nitrophenol	0.75	J	0.64	1.3	1	09/25/2017 18:43
4-Nitrophenol	ND		0.41	1.3	1	09/25/2017 18:43
N-Nitrosodiphenylamine	ND		0.16	0.25	1	09/25/2017 18:43
N-Nitrosodi-n-propylamine	ND		0.13	0.25	1	09/25/2017 18:43
Pentachlorophenol	ND		0.32	1.3	1	09/25/2017 18:43
Phenanthrene	ND		0.14	0.25	1	09/25/2017 18:43
Phenol	ND		0.12	0.25	1	09/25/2017 18:43
Pyrene	ND		0.13	0.25	1	09/25/2017 18:43
Pyridine	ND		0.25	0.25	1	09/25/2017 18:43
1,2,4-Trichlorobenzene	ND		0.14	0.25	1	09/25/2017 18:43
2,4,5-Trichlorophenol	ND		0.12	0.25	1	09/25/2017 18:43
2,4,6-Trichlorophenol	ND		0.14	0.25	1	09/25/2017 18:43

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC17 09251711.D	146082

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
2-Fluorophenol	105			30-130		09/25/2017 18:43
Phenol-d5	95			30-130		09/25/2017 18:43
Nitrobenzene-d5	99			30-130		09/25/2017 18:43
2-Fluorobiphenyl	90			30-130		09/25/2017 18:43
2,4,6-Tribromophenol	48			16-130		09/25/2017 18:43
4-Terphenyl-d14	101			30-130		09/25/2017 18:43

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
EW-1	1709972-001B	Water	09/22/2017 08:40	GC21 09271730.D	146090	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Acenaphthene	ND		0.23	1.9	1	09/27/2017 22:55
Acenaphthylene	ND		0.25	1.9	1	09/27/2017 22:55
Acetochlor	ND		0.95	1.9	1	09/27/2017 22:55
Anthracene	ND		0.14	1.9	1	09/27/2017 22:55
Benzidine	ND		0.28	9.5	1	09/27/2017 22:55
Benzo (a) anthracene	ND		0.15	1.9	1	09/27/2017 22:55
Benzo (a) pyrene	ND		0.16	1.9	1	09/27/2017 22:55
Benzo (b) fluoranthene	ND		0.15	1.9	1	09/27/2017 22:55
Benzo (g,h,i) perylene	ND		0.17	1.9	1	09/27/2017 22:55
Benzo (k) fluoranthene	ND		0.19	1.9	1	09/27/2017 22:55
Benzyl Alcohol	ND		1.4	9.5	1	09/27/2017 22:55
1,1-Biphenyl	ND		0.25	1.9	1	09/27/2017 22:55
Bis (2-chloroethoxy) Methane	ND		0.29	1.9	1	09/27/2017 22:55
Bis (2-chloroethyl) Ether	ND		0.23	1.9	1	09/27/2017 22:55
Bis (2-chloroisopropyl) Ether	ND		0.27	1.9	1	09/27/2017 22:55
Bis (2-ethylhexyl) Adipate	6.1		1.9	1.9	1	09/27/2017 22:55
Bis (2-ethylhexyl) Phthalate	1.4	J	0.32	3.8	1	09/27/2017 22:55
4-Bromophenyl Phenyl Ether	ND		0.16	9.5	1	09/27/2017 22:55
Butylbenzyl Phthalate	0.63	J	0.28	1.9	1	09/27/2017 22:55
4-Chloroaniline	ND		0.31	3.8	1	09/27/2017 22:55
4-Chloro-3-methylphenol	ND		0.26	9.5	1	09/27/2017 22:55
2-Chloronaphthalene	ND		0.24	1.9	1	09/27/2017 22:55
2-Chlorophenol	ND		0.25	1.9	1	09/27/2017 22:55
4-Chlorophenyl Phenyl Ether	ND		0.19	1.9	1	09/27/2017 22:55
Chrysene	ND		0.17	1.9	1	09/27/2017 22:55
Dibenzo (a,h) anthracene	ND		0.18	1.9	1	09/27/2017 22:55
Dibenzofuran	ND		0.20	1.9	1	09/27/2017 22:55
Di-n-butyl Phthalate	ND		0.29	1.9	1	09/27/2017 22:55
1,2-Dichlorobenzene	ND		0.22	1.9	1	09/27/2017 22:55
1,3-Dichlorobenzene	ND		0.21	1.9	1	09/27/2017 22:55
1,4-Dichlorobenzene	ND		0.21	1.9	1	09/27/2017 22:55
3,3-Dichlorobenzidine	ND		0.13	3.8	1	09/27/2017 22:55
2,4-Dichlorophenol	ND		0.27	1.9	1	09/27/2017 22:55
Diethyl Phthalate	ND		0.14	1.9	1	09/27/2017 22:55
2,4-Dimethylphenol	ND		0.093	1.9	1	09/27/2017 22:55
Dimethyl Phthalate	ND		0.17	1.9	1	09/27/2017 22:55
4,6-Dinitro-2-methylphenol	1.7	J	0.93	9.5	1	09/27/2017 22:55

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1	1709972-001B	Water	09/22/2017 08:40	GC21 09271730.D	146090

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND		0.83	24	1	09/27/2017 22:55
2,4-Dinitrotoluene	ND		0.16	1.9	1	09/27/2017 22:55
2,6-Dinitrotoluene	ND		0.19	1.9	1	09/27/2017 22:55
Di-n-octyl Phthalate	ND		0.26	1.9	1	09/27/2017 22:55
1,2-Diphenylhydrazine	ND		0.15	1.9	1	09/27/2017 22:55
Fluoranthene	ND		0.17	1.9	1	09/27/2017 22:55
Fluorene	ND		0.19	1.9	1	09/27/2017 22:55
Hexachlorobenzene	ND		0.17	1.9	1	09/27/2017 22:55
Hexachlorobutadiene	ND		0.23	1.9	1	09/27/2017 22:55
Hexachlorocyclopentadiene	ND		1.1	9.5	1	09/27/2017 22:55
Hexachloroethane	ND		0.28	1.9	1	09/27/2017 22:55
Indeno (1,2,3-cd) pyrene	ND		0.18	1.9	1	09/27/2017 22:55
Isophorone	ND		0.31	1.9	1	09/27/2017 22:55
2-Methylnaphthalene	ND		0.28	1.9	1	09/27/2017 22:55
2-Methylphenol (o-Cresol)	ND		0.18	1.9	1	09/27/2017 22:55
3 & 4-Methylphenol (m,p-Cresol)	ND		0.18	1.9	1	09/27/2017 22:55
Naphthalene	ND		0.23	1.9	1	09/27/2017 22:55
2-Nitroaniline	ND		1.2	9.5	1	09/27/2017 22:55
3-Nitroaniline	ND		1.1	9.5	1	09/27/2017 22:55
4-Nitroaniline	ND		1.1	9.5	1	09/27/2017 22:55
Nitrobenzene	ND		0.31	1.9	1	09/27/2017 22:55
2-Nitrophenol	ND		1.3	9.5	1	09/27/2017 22:55
4-Nitrophenol	ND		1.6	9.5	1	09/27/2017 22:55
N-Nitrosodiphenylamine	ND		0.17	1.9	1	09/27/2017 22:55
N-Nitrosodi-n-propylamine	ND		0.33	1.9	1	09/27/2017 22:55
Pentachlorophenol	ND		0.48	9.5	1	09/27/2017 22:55
Phenanthrene	ND		0.21	1.9	1	09/27/2017 22:55
Phenol	1.1	J	0.32	1.9	1	09/27/2017 22:55
Pyrene	ND		0.23	1.9	1	09/27/2017 22:55
Pyridine	ND		1.9	1.9	1	09/27/2017 22:55
1,2,4-Trichlorobenzene	ND		0.21	1.9	1	09/27/2017 22:55
2,4,5-Trichlorophenol	ND		0.20	1.9	1	09/27/2017 22:55
2,4,6-Trichlorophenol	ND		0.22	1.9	1	09/27/2017 22:55

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Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/25/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1	1709972-001B	Water	09/22/2017 08:40	GC21 09271730.D	146090

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>		<u>Limits</u>		
2-Fluorophenol	149	S		8-130		09/27/2017 22:55
Phenol-d5	148	S		5-130		09/27/2017 22:55
Nitrobenzene-d5	130			20-140		09/27/2017 22:55
2-Fluorobiphenyl	122			40-140		09/27/2017 22:55
2,4,6-Tribromophenol	145			16-180		09/27/2017 22:55
4-Terphenyl-d14	116			40-170		09/27/2017 22:55

Analyst(s): REB

Analytical Comments: c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/27/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EW-1	1709972-001A	Water	09/22/2017 08:40	GC11A 09271726.D	146193

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	180	33	33	1	09/27/2017 20:58
TPH-Motor Oil (C18-C36)	350	71	71	1	09/27/2017 20:58

Surrogates	REC (%)	Limits	Date Analyzed
C26	114	70-130	09/27/2017 20:58

Analyst(s): TK **Analytical Comments:** e7,e2,e11/e4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 9/22/17 10:07
Date Prepared: 9/26/17
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CP-1	1709972-002A	Soil	09/22/2017 08:22	GC9a 09261736.D	146115

Analytes	Result	MDL	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	0.86	1.0	1	09/26/2017 22:43
TPH-Motor Oil (C18-C36)	7.7	3.5	5.0	1	09/26/2017 22:43

Surrogates	REC (%)	Limits	Date Analyzed
C9	108	78-126	09/26/2017 22:43

Analyst(s): TK **Analytical Comments:** e7



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/22/17
Date Analyzed: 9/23/17 - 9/25/17
Instrument: GC10, GC28
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709972
BatchID: 145978
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-145978
 1709945-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.990	0.039	0.10	1	-	99	48-156
tert-Amyl methyl ether (TAME)	ND	0.0340	0.0010	0.0050	0.050	-	68	56-115
Benzene	ND	0.0421	0.0016	0.0050	0.050	-	84	63-131
Bromobenzene	ND	0.0433	0.0017	0.0050	0.050	-	87	66-127
Bromochloromethane	ND	0.0404	0.0015	0.0050	0.050	-	81	64-124
Bromodichloromethane	ND	0.0448	0.0012	0.0050	0.050	-	90	64-120
Bromoform	ND	0.0369	0.00080	0.0050	0.050	-	74	48-92
Bromomethane	ND	0.0499	0.0020	0.0050	0.050	-	100	25-163
2-Butanone (MEK)	ND	0.143	0.0054	0.020	0.20	-	71	51-133
t-Butyl alcohol (TBA)	ND	0.165	0.0053	0.050	0.20	-	82	52-129
n-Butyl benzene	ND	0.0548	0.0035	0.0050	0.050	-	110	83-200
sec-Butyl benzene	ND	0.0564	0.0034	0.0050	0.050	-	113	81-199
tert-Butyl benzene	ND	0.0522	0.0030	0.0050	0.050	-	104	79-178
Carbon Disulfide	ND	0.0500	0.0017	0.0050	0.050	-	100	64-136
Carbon Tetrachloride	ND	0.0478	0.0017	0.0050	0.050	-	96	66-140
Chlorobenzene	ND	0.0422	0.0018	0.0050	0.050	-	84	73-116
Chloroethane	ND	0.0454	0.0016	0.0050	0.050	-	91	35-147
Chloroform	ND	0.0429	0.0016	0.0050	0.050	-	86	65-130
Chloromethane	ND	0.0439	0.0017	0.0050	0.050	-	88	30-137
2-Chlorotoluene	ND	0.0479	0.0022	0.0050	0.050	-	96	75-152
4-Chlorotoluene	ND	0.0467	0.0021	0.0050	0.050	-	93	71-148
Dibromochloromethane	ND	0.0379	0.0011	0.0050	0.050	-	76	61-106
1,2-Dibromo-3-chloropropane	ND	0.0127	0.0012	0.0040	0.020	-	63	36-120
1,2-Dibromoethane (EDB)	ND	0.0399	0.0013	0.0040	0.050	-	80	67-118
Dibromomethane	ND	0.0384	0.0014	0.0050	0.050	-	77	61-116
1,2-Dichlorobenzene	ND	0.0377	0.0014	0.0050	0.050	-	75	59-106
1,3-Dichlorobenzene	ND	0.0463	0.0018	0.0050	0.050	-	93	75-129
1,4-Dichlorobenzene	ND	0.0434	0.0018	0.0050	0.050	-	87	66-127
Dichlorodifluoromethane	ND	0.0194	0.0011	0.0050	0.050	-	39	13-74
1,1-Dichloroethane	ND	0.0418	0.0017	0.0050	0.050	-	84	65-134
1,2-Dichloroethane (1,2-DCA)	ND	0.0387	0.0014	0.0040	0.050	-	77	57-131
1,1-Dichloroethene	ND	0.0480	0.0017	0.0050	0.050	-	96	62-127
cis-1,2-Dichloroethene	ND	0.0372	0.0015	0.0050	0.050	-	74	66-130
trans-1,2-Dichloroethene	ND	0.0475	0.0016	0.0050	0.050	-	95	60-131
1,2-Dichloropropane	ND	0.0409	0.0014	0.0050	0.050	-	82	63-127
1,3-Dichloropropane	ND	0.0376	0.0016	0.0050	0.050	-	75	68-124
2,2-Dichloropropane	ND	0.0503	0.0013	0.0050	0.050	-	101	63-150

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CA ELAP 1644 • NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/22/17
Date Analyzed: 9/23/17 - 9/25/17
Instrument: GC10, GC28
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 145978
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-145978
 1709945-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0460	0.0018	0.0050	0.050	-	92	67-134
cis-1,3-Dichloropropene	ND	0.0409	0.0015	0.0050	0.050	-	82	65-138
trans-1,3-Dichloropropene	ND	0.0405	0.0014	0.0050	0.050	-	81	66-124
Diisopropyl ether (DIPE)	ND	0.0378	0.0014	0.0050	0.050	-	76	58-129
Ethylbenzene	ND	0.0474	0.0020	0.0050	0.050	-	95	73-145
Ethyl tert-butyl ether (ETBE)	ND	0.0368	0.0013	0.0050	0.050	-	74	62-125
Freon 113	ND	0.0430	0.0016	0.0050	0.050	-	86	55-116
Hexachlorobutadiene	ND	0.0601	0.0050	0.0050	0.050	-	120	75-178
Hexachloroethane	ND	0.0508	0.0025	0.0050	0.050	-	102	75-152
2-Hexanone	ND	0.0293	0.0025	0.0050	0.050	-	59	41-113
Isopropylbenzene	ND	0.0522	0.0022	0.0050	0.050	-	104	67-172
4-Isopropyl toluene	ND	0.0540	0.0031	0.0050	0.050	-	108	88-171
Methyl-t-butyl ether (MTBE)	ND	0.0359	0.0013	0.0050	0.050	-	72	58-122
Methylene chloride	ND	0.0514	0.0036	0.0050	0.050	-	103	57-140
4-Methyl-2-pentanone (MIBK)	ND	0.0302	0.00080	0.0050	0.050	-	60	42-117
Naphthalene	0.001297,J	0.0207	0.00060	0.0050	0.050	-	41	29-65
n-Propyl benzene	ND	0.0542	0.0029	0.0050	0.050	-	108	85-174
Styrene	ND	0.0442	0.0014	0.0050	0.050	-	88	63-126
1,1,1,2-Tetrachloroethane	ND	0.0471	0.0016	0.0050	0.050	-	94	68-131
1,1,2,2-Tetrachloroethane	ND	0.0350	0.0013	0.0050	0.050	-	70	45-121
Tetrachloroethene	ND	0.0499	0.0023	0.0050	0.050	-	100	65-150
Toluene	ND	0.0452	0.0022	0.0050	0.050	-	90	72-135
1,2,3-Trichlorobenzene	ND	0.0288	0.00070	0.0050	0.050	-	58	35-80
1,2,4-Trichlorobenzene	ND	0.0371	0.0011	0.0050	0.050	-	74	45-103
1,1,1-Trichloroethane	ND	0.0458	0.0018	0.0050	0.050	-	92	67-137
1,1,2-Trichloroethane	ND	0.0381	0.0016	0.0050	0.050	-	76	67-117
Trichloroethene	ND	0.0488	0.0017	0.0050	0.050	-	98	62-135
Trichlorofluoromethane	ND	0.0449	0.0016	0.0050	0.050	-	90	56-124
1,2,3-Trichloropropane	ND	0.0382	0.0019	0.0050	0.050	-	76	58-133
1,2,4-Trimethylbenzene	ND	0.0518	0.0024	0.0050	0.050	-	104	78-161
1,3,5-Trimethylbenzene	ND	0.0534	0.0027	0.0050	0.050	-	107	85-170
Vinyl Chloride	ND	0.0446	0.0015	0.0050	0.050	-	89	32-142
Xylenes, Total	ND	0.141	0.0025	0.0050	0.15	-	94	70-137

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Quality Control Report

Client: ERAS Environmental, Inc. Date Prepared: 9/22/17 Date Analyzed: 9/23/17 - 9/25/17 Instrument: GC10, GC28 Matrix: Soil Project: 16-005-02; 1091 Calcot Place, Oakland	WorkOrder: 1709972 BatchID: 145978 Extraction Method: SW5030B Analytical Method: SW8260B Unit: mg/kg Sample ID: MB/LCS-145978 1709945-002AMS/MSD
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QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
Dibromofluoromethane	0.1279	0.128			0.12	102	102	87-127
Toluene-d8	0.1417	0.140			0.12	113	112	93-141
4-BFB	0.01154	0.0118			0.012	92	95	84-137
Benzene-d6	0.09369	0.0902			0.10	94	90	67-131
Ethylbenzene-d10	0.1042	0.0998			0.10	104	100	78-153
1,2-DCB-d4	0.07937	0.0801			0.10	79	80	63-109



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/22/17
Date Analyzed: 9/23/17 - 9/25/17
Instrument: GC10, GC28
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 145978
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-145978
 1709945-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1.02	1.01	1	ND	102	101	36-141	0.805	20
tert-Amyl methyl ether (TAME)	0.0336	0.0347	0.050	ND	67	69	46-105	3.33	20
Benzene	0.0421	0.0406	0.050	ND	84	81	46-124	3.59	20
Bromobenzene	0.0446	0.0432	0.050	ND	89	86	50-119	3.11	20
Bromochloromethane	0.0397	0.0391	0.050	ND	79	78	42-122	1.46	20
Bromodichloromethane	0.0453	0.0442	0.050	ND	91	88	48-112	2.42	20
Bromoform	0.0382	0.0373	0.050	ND	76	75	36-90	2.43	20
Bromomethane	0.0499	0.0458	0.050	ND	100	92	10-149	8.75	20
2-Butanone (MEK)	0.139	0.145	0.20	ND	67	69	43-114	3.99	20
t-Butyl alcohol (TBA)	0.165	0.171	0.20	ND	83	85	33-123	3.36	20
n-Butyl benzene	0.0554	0.0511	0.050	ND	111	102	40-185	8.06	20
sec-Butyl benzene	0.0612	0.0559	0.050	ND	122	112	40-183	9.05	20
tert-Butyl benzene	0.0561	0.0522	0.050	ND	112	104	44-168	7.07	20
Carbon Disulfide	0.0500	0.0438	0.050	ND	100	88	23-139	13.4	20
Carbon Tetrachloride	0.0504	0.0472	0.050	ND	101	94	43-133	6.47	20
Chlorobenzene	0.0427	0.0411	0.050	ND	85	82	51-115	3.94	20
Chloroethane	0.0479	0.0432	0.050	ND	96	86	16-138	10.4	20
Chloroform	0.0436	0.0420	0.050	ND	87	84	54-117	3.95	20
Chloromethane	0.0456	0.0400	0.050	ND	91	80	14-128	13.1	20
2-Chlorotoluene	0.0499	0.0466	0.050	ND	100	93	54-141	6.83	20
4-Chlorotoluene	0.0471	0.0451	0.050	ND	94	90	52-134	4.30	20
Dibromochloromethane	0.0393	0.0386	0.050	ND	79	77	46-102	1.86	20
1,2-Dibromo-3-chloropropane	0.0128	0.0134	0.020	ND	64	67	16-120	4.43	20
1,2-Dibromoethane (EDB)	0.0402	0.0398	0.050	ND	80	80	48-113	0	20
Dibromomethane	0.0398	0.0391	0.050	ND	80	78	44-110	1.73	20
1,2-Dichlorobenzene	0.0387	0.0375	0.050	ND	77	75	43-106	3.12	20
1,3-Dichlorobenzene	0.0468	0.0444	0.050	ND	94	89	49-128	5.35	20
1,4-Dichlorobenzene	0.0431	0.0423	0.050	ND	86	85	48-120	1.98	20
Dichlorodifluoromethane	0.0223	0.0205	0.050	ND	45	41	8-63	8.66	20
1,1-Dichloroethane	0.0406	0.0401	0.050	ND	81	80	50-122	1.27	20
1,2-Dichloroethane (1,2-DCA)	0.0388	0.0381	0.050	ND	78	76	46-116	1.77	20
1,1-Dichloroethene	0.0500	0.0455	0.050	ND	100	91	37-124	9.55	20
cis-1,2-Dichloroethene	0.0372	0.0353	0.050	ND	74	71	47-123	5.31	20
trans-1,2-Dichloroethene	0.0458	0.0444	0.050	ND	92	89	31-131	2.99	20
1,2-Dichloropropane	0.0417	0.0407	0.050	ND	83	81	50-116	2.30	20
1,3-Dichloropropane	0.0385	0.0375	0.050	ND	77	75	52-115	2.57	20
2,2-Dichloropropane	0.0394	0.0368	0.050	ND	79	74	43-137	6.92	20

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QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/22/17
Date Analyzed: 9/23/17 - 9/25/17
Instrument: GC10, GC28
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709972
BatchID: 145978
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-145978
 1709945-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0471	0.0442	0.050	ND	94	88	43-126	6.26	20
cis-1,3-Dichloropropene	0.0377	0.0371	0.050	ND	75	74	35-134	1.59	20
trans-1,3-Dichloropropene	0.0370	0.0372	0.050	ND	74	74	35-124	0	20
Diisopropyl ether (DIPE)	0.0383	0.0380	0.050	ND	77	76	49-116	0.846	20
Ethylbenzene	0.0487	0.0460	0.050	ND	97	92	49-137	5.70	20
Ethyl tert-butyl ether (ETBE)	0.0366	0.0370	0.050	ND	73	74	50-113	1.13	20
Freon 113	0.0482	0.0435	0.050	ND	96	87	28-114	10.1	20
Hexachlorobutadiene	0.0602	0.0556	0.050	ND	120	111	22-180	7.94	20
Hexachloroethane	0.0538	0.0508	0.050	ND	108	102	28-158	5.68	20
2-Hexanone	0.0303	0.0303	0.050	ND	61	61	31-102	0	20
Isopropylbenzene	0.0556	0.0520	0.050	ND	111	104	50-153	6.86	20
4-Isopropyl toluene	0.0571	0.0536	0.050	ND	114	107	41-171	6.45	20
Methyl-t-butyl ether (MTBE)	0.0335	0.0356	0.050	ND	67	71	48-110	6.28	20
Methylene chloride	0.0514	0.0466	0.050	ND	103	93	42-127	9.66	20
4-Methyl-2-pentanone (MIBK)	0.0304	0.0306	0.050	ND	61	61	24-114	0	20
Naphthalene	0.0217	0.0217	0.050	ND	43	43	19-69	0	20
n-Propyl benzene	0.0572	0.0532	0.050	ND	114	106	46-168	7.33	20
Styrene	0.0450	0.0437	0.050	ND	86	84	42-122	2.88	20
1,1,1,2-Tetrachloroethane	0.0478	0.0460	0.050	ND	96	92	52-121	3.79	20
1,1,2,2-Tetrachloroethane	0.0373	0.0366	0.050	ND	75	73	27-116	1.87	20
Tetrachloroethene	0.0508	0.0480	0.050	ND	102	96	37-149	5.69	20
Toluene	0.0467	0.0434	0.050	ND	93	87	52-124	7.32	20
1,2,3-Trichlorobenzene	0.0291	0.0284	0.050	ND	58	57	20-86	2.38	20
1,2,4-Trichlorobenzene	0.0360	0.0353	0.050	ND	72	71	24-107	1.99	20
1,1,1-Trichloroethane	0.0478	0.0447	0.050	ND	96	89	48-128	6.72	20
1,1,2-Trichloroethane	0.0389	0.0383	0.050	ND	78	77	51-110	1.43	20
Trichloroethene	0.0453	0.0431	0.050	ND	91	86	42-128	4.98	20
Trichlorofluoromethane	0.0493	0.0443	0.050	ND	99	89	31-121	10.6	20
1,2,3-Trichloropropane	0.0414	0.0395	0.050	ND	83	79	50-115	4.76	20
1,2,4-Trimethylbenzene	0.0532	0.0515	0.050	ND	106	103	48-151	3.21	20
1,3,5-Trimethylbenzene	0.0551	0.0520	0.050	ND	110	104	51-159	5.87	20
Vinyl Chloride	0.0480	0.0404	0.050	ND	96	81	11-136	17.3	20
Xylenes, Total	0.142	0.136	0.15	ND	95	91	38-141	4.02	20

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CA ELAP 1644 • NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/22/17
Date Analyzed: 9/23/17 - 9/25/17
Instrument: GC10, GC28
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 145978
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-145978
 1709945-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.127	0.128	0.12		101	103	82-136	1.23	20
Toluene-d8	0.142	0.140	0.12		114	112	92-139	1.40	20
4-BFB	0.0122	0.0119	0.012		98	96	82-135	2.45	20
Benzene-d6	0.0891	0.0868	0.10		89	87	55-122	2.64	20
Ethylbenzene-d10	0.100	0.0972	0.10		100	97	58-141	3.16	20
1,2-DCB-d4	0.0811	0.0795	0.10		81	79	51-107	2.05	20



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/27/17
Date Analyzed: 9/27/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-146238
 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	155	1.7	10	200	-	77	47-122
tert-Amyl methyl ether (TAME)	ND	8.02	0.22	0.50	10	-	80	62-121
Benzene	ND	9.05	0.051	0.50	10	-	90	74-121
Bromobenzene	ND	8.88	0.060	0.50	10	-	89	63-127
Bromochloromethane	ND	8.84	0.090	0.50	10	-	88	70-126
Bromodichloromethane	ND	8.92	0.20	0.50	10	-	89	66-127
Bromoform	ND	7.71	0.066	0.50	10	-	77	60-119
Bromomethane	ND	10.7	0.16	0.50	10	-	107	32-155
2-Butanone (MEK)	ND	28.6	0.49	2.0	40	-	71	51-117
t-Butyl alcohol (TBA)	ND	23.0	0.94	2.0	40	-	57	41-122
n-Butyl benzene	ND	9.26	0.084	0.50	10	-	93	73-137
sec-Butyl benzene	ND	9.26	0.060	0.50	10	-	93	71-137
tert-Butyl benzene	ND	9.72	0.050	0.50	10	-	97	61-136
Carbon Disulfide	ND	9.16	0.066	0.50	10	-	92	61-139
Carbon Tetrachloride	ND	9.56	0.069	0.50	10	-	96	69-137
Chlorobenzene	ND	9.05	0.050	0.50	10	-	91	71-122
Chloroethane	ND	11.8	0.31	0.50	10	-	118	54-132
Chloroform	ND	8.88	0.064	0.50	10	-	89	73-122
Chloromethane	ND	11.8	0.13	0.50	10	-	118	48-136
2-Chlorotoluene	ND	9.39	0.070	0.50	10	-	94	65-134
4-Chlorotoluene	ND	9.22	0.070	0.50	10	-	92	65-130
Dibromochloromethane	ND	7.73	0.080	0.50	10	-	77	65-121
1,2-Dibromo-3-chloropropane	ND	2.61	0.12	0.20	4	-	65	41-132
1,2-Dibromoethane (EDB)	ND	8.00	0.12	0.50	10	-	80	67-125
Dibromomethane	ND	8.09	0.080	0.50	10	-	81	68-121
1,2-Dichlorobenzene	ND	8.70	0.080	0.50	10	-	87	69-128
1,3-Dichlorobenzene	ND	9.27	0.071	0.50	10	-	93	71-131
1,4-Dichlorobenzene	ND	8.84	0.072	0.50	10	-	88	70-128
Dichlorodifluoromethane	ND	5.28	0.063	0.50	10	-	53	21-158
1,1-Dichloroethane	ND	9.33	0.060	0.50	10	-	93	73-123
1,2-Dichloroethane (1,2-DCA)	ND	8.44	0.090	0.50	10	-	84	61-127
1,1-Dichloroethene	ND	8.49	0.086	0.50	10	-	85	68-130
cis-1,2-Dichloroethene	ND	8.91	0.050	0.50	10	-	89	72-123
trans-1,2-Dichloroethene	ND	9.27	0.060	0.50	10	-	93	64-138
1,2-Dichloropropane	ND	9.06	0.055	0.50	10	-	91	71-121
1,3-Dichloropropane	ND	8.08	0.10	0.50	10	-	81	69-120
2,2-Dichloropropane	ND	10.9	0.10	0.50	10	-	109	64-142

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Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/27/17
Date Analyzed: 9/27/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-146238
 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	9.16	0.060	0.50	10	-	92	70-130
cis-1,3-Dichloropropene	ND	9.17	0.090	0.50	10	-	92	58-136
trans-1,3-Dichloropropene	ND	9.48	0.070	0.50	10	-	95	66-119
Diisopropyl ether (DIPE)	ND	9.05	0.070	0.50	10	-	91	66-123
Ethylbenzene	ND	9.04	0.050	0.50	10	-	90	71-125
Ethyl tert-butyl ether (ETBE)	ND	8.29	0.070	0.50	10	-	83	67-122
Freon 113	ND	8.22	0.066	0.50	10	-	82	68-132
Hexachlorobutadiene	ND	8.65	0.085	0.50	10	-	86	56-155
Hexachloroethane	ND	8.73	0.060	0.50	10	-	87	61-129
2-Hexanone	ND	6.18	0.44	0.50	10	-	62	51-115
Isopropylbenzene	ND	9.67	0.070	0.50	10	-	97	66-134
4-Isopropyl toluene	ND	9.60	0.050	0.50	10	-	96	70-136
Methyl-t-butyl ether (MTBE)	ND	7.42	0.10	0.50	10	-	74	64-118
Methylene chloride	0.2257,J	7.99	0.052	0.50	10	-	80	62-121
4-Methyl-2-pentanone (MIBK)	ND	6.90	0.24	0.50	10	-	69	51-115
Naphthalene	ND	6.91	0.16	0.50	10	-	69	55-137
n-Propyl benzene	ND	9.80	0.060	0.50	10	-	98	63-140
Styrene	ND	8.60	0.060	0.50	10	-	86	62-133
1,1,1,2-Tetrachloroethane	ND	9.13	0.070	0.50	10	-	91	69-128
1,1,2,2-Tetrachloroethane	ND	7.83	0.11	0.50	10	-	78	60-118
Tetrachloroethene	ND	9.12	0.082	0.50	10	-	91	63-136
Toluene	ND	9.08	0.040	0.50	10	-	91	67-124
1,2,3-Trichlorobenzene	ND	7.47	0.11	0.50	10	-	75	57-145
1,2,4-Trichlorobenzene	ND	8.07	0.086	0.50	10	-	81	60-144
1,1,1-Trichloroethane	ND	9.19	0.050	0.50	10	-	92	70-133
1,1,2-Trichloroethane	ND	8.17	0.080	0.50	10	-	82	65-125
Trichloroethene	ND	9.12	0.060	0.50	10	-	91	67-133
Trichlorofluoromethane	ND	7.82	0.047	0.50	10	-	78	59-145
1,2,3-Trichloropropane	ND	7.91	0.14	0.50	10	-	79	65-115
1,2,4-Trimethylbenzene	ND	9.61	0.065	0.50	10	-	96	67-136
1,3,5-Trimethylbenzene	ND	9.68	0.070	0.50	10	-	97	68-135
Vinyl Chloride	ND	10.8	0.070	0.50	10	-	108	53-146
Xylenes, Total	ND	27.7	0.25	0.50	30	-	92	68-128

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Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/27/17
Date Analyzed: 9/27/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-146238
 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
Dibromofluoromethane	27.65	27.9			25	111	112	91-133
Toluene-d8	27.74	28.2			25	111	113	87-127
4-BFB	2.073	2.44			2.5	83	98	66-140



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/27/17
Date Analyzed: 9/27/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-146238
 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	194	193	200	ND	97	97	56-141	0	20
tert-Amyl methyl ether (TAME)	10.2	10.3	10	ND	102	103	78-120	0.957	20
Benzene	11.0	10.8	10	ND	110	108	81-118	1.62	20
Bromobenzene	10.7	10.8	10	ND	107	108	71-119	0.838	20
Bromochloromethane	11.0	10.8	10	ND	110	108	80-124	1.78	20
Bromodichloromethane	11.5	11.4	10	ND	115	114	78-124	0.913	20
Bromoform	10.1	10.2	10	ND	101	102	65-127	0.825	20
Bromomethane	10.9	10.6	10	ND	109	106	22-175	2.75	20
2-Butanone (MEK)	38.0	37.6	40	ND	95	94	50-152	1.11	20
t-Butyl alcohol (TBA)	29.5	30.9	40	ND	74	77	49-141	4.61	20
n-Butyl benzene	10.5	10.3	10	ND	105	103	77-127	1.28	20
sec-Butyl benzene	10.7	10.5	10	ND	107	105	74-123	2.14	20
tert-Butyl benzene	11.6	11.5	10	ND	116	115	68-122	1.55	20
Carbon Disulfide	10.3	10.0	10	ND	103	100	74-123	2.57	20
Carbon Tetrachloride	11.6	11.4	10	ND	116	114	78-124	2.05	20
Chlorobenzene	11.0	10.9	10	ND	110	109	79-116	0.858	20
Chloroethane	12.5	11.9	10	ND	125	119	56-134	5.18	20
Chloroform	11.0	10.9	10	ND	110	109	82-119	0.447	20
Chloromethane	10.2	10.1	10	ND	103	101	39-147	1.63	20
2-Chlorotoluene	11.3	11.1	10	ND	113	111	69-124	1.28	20
4-Chlorotoluene	11.1	11.1	10	ND	111	111	71-121	0	20
Dibromochloromethane	9.85	9.96	10	ND	98	100	76-119	1.16	20
1,2-Dibromo-3-chloropropane	3.32	3.65	4	ND	83	91	48-138	9.59	20
1,2-Dibromoethane (EDB)	10.1	10.3	10	ND	101	103	81-122	2.01	20
Dibromomethane	10.2	10.2	10	ND	102	102	83-121	0	20
1,2-Dichlorobenzene	10.6	10.6	10	ND	106	106	77-122	0	20
1,3-Dichlorobenzene	11.1	10.9	10	ND	111	109	76-125	1.74	20
1,4-Dichlorobenzene	10.7	10.6	10	ND	107	106	78-120	1.22	20
Dichlorodifluoromethane	3.74	3.47	10	ND	37,F1	35,F1	38-135	7.37	20
1,1-Dichloroethane	11.3	11.1	10	ND	113	111	80-120	1.94	20
1,2-Dichloroethane (1,2-DCA)	10.6	10.4	10	ND	106	104	78-122	1.87	20
1,1-Dichloroethene	9.83	9.63	10	ND	98	96	77-120	1.99	20
cis-1,2-Dichloroethene	11.0	10.9	10	ND	110	108	79-123	1.81	20
trans-1,2-Dichloroethene	11.0	10.7	10	ND	110	107	77-125	2.22	20
1,2-Dichloropropane	11.3	11.2	10	ND	113	112	80-121	0.501	20
1,3-Dichloropropane	10.0	10.2	10	ND	100	102	80-120	1.05	20
2,2-Dichloropropane	13.5	13.3	10	ND	135,F1	133,F1	70-132	1.84	20

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/27/17
Date Analyzed: 9/27/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-146238
 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	11.0	10.8	10	ND	110	108	78-122	1.95	20
cis-1,3-Dichloropropene	11.7	11.8	10	ND	117	118	73-121	0.686	20
trans-1,3-Dichloropropene	12.0	12.0	10	ND	120,F1	120,F1	77-116	0	20
Diisopropyl ether (DIPE)	11.6	11.5	10	ND	117	115	77-125	1.34	20
Ethylbenzene	11.0	10.8	10	ND	110	108	77-119	1.87	20
Ethyl tert-butyl ether (ETBE)	11.0	10.9	10	ND	110	109	81-122	0.386	20
Freon 113	9.66	9.52	10	ND	97	95	77-120	1.47	20
Hexachlorobutadiene	10.7	10.8	10	ND	107	108	57-141	0.849	20
Hexachloroethane	10.8	11.1	10	ND	108	111	26-168	2.02	20
2-Hexanone	8.56	8.63	10	ND	86	86	58-135	0	20
Isopropylbenzene	11.7	11.6	10	ND	117	116	74-120	1.18	20
4-Isopropyl toluene	11.4	11.2	10	ND	114	112	75-124	1.77	20
Methyl-t-butyl ether (MTBE)	10.4	10.4	10	ND	99	99	74-128	0	20
Methylene chloride	9.52	9.46	10	ND	94	93	55-130	0.617	20
4-Methyl-2-pentanone (MIBK)	9.44	9.43	10	ND	94	94	59-131	0	20
Naphthalene	8.78	9.17	10	ND	88	92	65-136	4.26	20
n-Propyl benzene	11.5	11.4	10	ND	115	114	67-128	1.50	20
Styrene	11.0	10.6	10	ND	109	105	64-133	3.56	20
1,1,1,2-Tetrachloroethane	11.5	11.5	10	ND	115	115	78-122	0	20
1,1,2,2-Tetrachloroethane	9.66	9.88	10	ND	97	99	72-123	2.30	20
Tetrachloroethene	11.0	10.8	10	ND	110	108	72-123	2.14	20
Toluene	11.1	10.9	10	ND	110	109	74-117	1.38	20
1,2,3-Trichlorobenzene	9.20	9.61	10	ND	92	96	61-141	4.39	20
1,2,4-Trichlorobenzene	10.0	10.2	10	ND	100	103	69-136	2.39	20
1,1,1-Trichloroethane	11.3	11.1	10	ND	113	111	78-122	2.11	20
1,1,2-Trichloroethane	10.2	10.3	10	ND	102	103	79-120	1.23	20
Trichloroethene	11.4	11.0	10	ND	110	107	76-122	2.66	20
Trichlorofluoromethane	8.86	8.73	10	ND	89	87	72-125	1.51	20
1,2,3-Trichloropropane	9.83	10.0	10	ND	98	100	72-123	1.88	20
1,2,4-Trimethylbenzene	11.4	11.1	10	ND	114	111	74-123	1.98	20
1,3,5-Trimethylbenzene	11.4	11.2	10	ND	114	112	73-123	1.79	20
Vinyl Chloride	9.96	9.58	10	ND	100	96	57-134	3.86	20
Xylenes, Total	34.2	33.3	30	ND	114	111	76-119	2.62	20

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Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/27/17
Date Analyzed: 9/27/17
Instrument: GC10
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-146238
 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	28.4	28.1	25		113	112	78-134	1.06	20
Toluene-d8	27.6	27.8	25		110	111	82-120	0.577	20
4-BFB	2.54	2.58	2.5		101	103	69-131	1.80	20



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709972
Date Prepared: 9/22/17	BatchID: 145978
Date Analyzed: 9/23/17 - 9/25/17	Extraction Method: SW5030B
Instrument: GC10, GC28	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-145978 1709945-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.25	0.25	-	-	-
Surrogate Recovery						
Dibromofluoromethane	0.1454			0.12	116	70-130
Benzene-D6	0.1182			0.10	118	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	0.899	0.815	1	90	81	67-117	9.82	20
Surrogate Recovery								
Dibromofluoromethane	0.142	0.142	0.12	114	114	70-130	0	20
Benzene-D6	0.111	0.0939	0.10	111	94	60-140	16.4	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Surrogate Recovery									
Dibromofluoromethane	N/A	N/A			N/A	N/A	-	N/A	-
Benzene-D6	N/A	N/A			N/A	N/A	-	N/A	-



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709972
Date Prepared: 9/27/17	BatchID: 146238
Date Analyzed: 9/27/17	Extraction Method: SW5030B
Instrument: GC10	Analytical Method: SW8260B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-146238 1709972-001DMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)				-	-	-
Surrogate Recovery						
Dibromofluoromethane				25		70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	191	202	200	96	101	70-130	5.22	20
Surrogate Recovery								
Dibromofluoromethane	28.9	29.0	25	116	116	70-130	0	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Surrogate Recovery									
Dibromofluoromethane	N/A	N/A			N/A	N/A	-	N/A	-



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/26/17
Date Analyzed: 9/29/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146125
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg
Sample ID: MB/LCS-146125
 1709972-002AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.0026	0.010	-	-	-	-
Acenaphthylene	ND	-	0.0034	0.010	-	-	-	-
Anthracene	ND	-	0.0029	0.010	-	-	-	-
Benzo (a) anthracene	0.008165,J	-	0.0017	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.194	0.0027	0.010	0.20	-	97	23-129
Benzo (b) fluoranthene	0.00263,J	-	0.0015	0.010	-	-	-	-
Benzo (g,h,i) perylene	0.004618,J	-	0.0033	0.010	-	-	-	-
Benzo (k) fluoranthene	0.003339,J	-	0.0016	0.010	-	-	-	-
Chrysene	0.004778,J	0.176	0.0024	0.010	0.20	-	88	38-104
Dibenzo (a,h) anthracene	ND	-	0.0050	0.010	-	-	-	-
Fluoranthene	ND	-	0.0040	0.010	-	-	-	-
Fluorene	ND	-	0.0060	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.0049	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.216	0.0029	0.010	0.20	-	108, F2	59-106
2-Methylnaphthalene	ND	0.200	0.0020	0.010	0.20	-	100	54-108
Naphthalene	ND	-	0.0016	0.010	-	-	-	-
Phenanthrene	ND	0.187	0.0035	0.010	0.20	-	93	48-107
Pyrene	ND	0.182	0.0045	0.010	0.20	-	91	40-104

Surrogate Recovery

1-Fluoronaphthalene	0.485	0.509			0.50	97	102	63-123
2-Fluorobiphenyl	0.5026	0.522			0.50	101	104	55-127

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	0.190	0.201	0.20	ND	95	100	9-156	5.33	30
Chrysene	0.164	0.173	0.20	ND	79	83	33-115	4.91	30
1-Methylnaphthalene	0.199	0.212	0.20	ND	100	106	13-167	6.27	30
2-Methylnaphthalene	0.183	0.195	0.20	ND	92	98	25-152	6.30	30
Phenanthrene	0.173	0.180	0.20	ND	86	90	30-138	4.21	30
Pyrene	0.185	0.194	0.20	ND	93	97	29-125	4.63	30

Surrogate Recovery

1-Fluoronaphthalene	0.615	0.651	0.50		123	130	56-153	5.63	30
2-Fluorobiphenyl	0.656	0.697	0.50		131	139	50-150	5.98	30



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709972
Date Prepared:	9/25/17	BatchID:	146081
Date Analyzed:	9/25/17	Extraction Method:	SW3510C
Instrument:	GC35	Analytical Method:	SW8270C-SIM
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-146081

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.26	0.50	-	-	-
Acenaphthylene	ND	0.23	0.50	-	-	-
Anthracene	ND	0.24	0.50	-	-	-
Benzo (a) anthracene	0.2387,J	0.23	0.50	-	-	-
Benzo (a) pyrene	ND	0.20	0.50	-	-	-
Benzo (b) fluoranthene	ND	0.19	0.50	-	-	-
Benzo (g,h,i) perylene	ND	0.24	0.50	-	-	-
Benzo (k) fluoranthene	ND	0.21	0.50	-	-	-
Chrysene	ND	0.26	0.50	-	-	-
Dibenzo (a,h) anthracene	ND	0.17	0.50	-	-	-
Fluoranthene	ND	0.23	0.50	-	-	-
Fluorene	ND	0.25	0.50	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.18	0.50	-	-	-
1-Methylnaphthalene	ND	0.26	0.50	-	-	-
2-Methylnaphthalene	ND	0.26	0.50	-	-	-
Naphthalene	ND	0.26	0.50	-	-	-
Phenanthrene	ND	0.27	0.50	-	-	-
Pyrene	ND	0.22	0.50	-	-	-

Surrogate Recovery

1-Fluoronaphthalene	28.42			25	114	30-130
2-Fluorobiphenyl	28.88			25	116	30-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzo (a) pyrene	11.3	10.8	10	113	108	12-152	4.59	25
Chrysene	11.4	11.0	10	114	109	28-116	3.89	25
1-Methylnaphthalene	11.9	11.9	10	119	119	48-125	0	25
2-Methylnaphthalene	11.3	11.6	10	113	116	41-124	2.12	25
Phenanthrene	10.4	10.3	10	104	103	36-123	0.851	25
Pyrene	11.6	10.8	10	116	108	29-118	7.03	25

Surrogate Recovery

1-Fluoronaphthalene	29.3	29.1	25	117	116	45-129	0.719	25
2-Fluorobiphenyl	27.9	28.4	25	112	114	47-125	1.69	25



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146082
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-146082
 1709971-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	2.35	0.14	0.25	5	-	47	46-118
Acenaphthylene	ND	2.58	0.14	0.25	5	-	52	43-122
Acetochlor	ND	-	0.25	0.25	-	-	-	-
Anthracene	ND	2.52	0.14	0.25	5	-	51	47-125
Benzidine	ND	0.749	0.23	1.3	5	-	15	13-83
Benzo (a) anthracene	ND	2.59	0.14	0.25	5	-	52, F2	53-117
Benzo (a) pyrene	ND	3.22	0.14	0.25	5	-	64	53-138
Benzo (b) fluoranthene	ND	2.77	0.14	0.25	5	-	55	48-125
Benzo (g,h,i) perylene	ND	3.04	0.15	0.25	5	-	61	51-146
Benzo (k) fluoranthene	ND	2.79	0.16	0.25	5	-	56	53-124
Benzyl Alcohol	ND	2.27	0.51	1.3	5	-	45, F2	51-105
1,1-Biphenyl	ND	-	0.15	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	2.44	0.14	0.25	5	-	49	48-115
Bis (2-chloroethyl) Ether	ND	2.67	0.13	0.25	5	-	53	51-105
Bis (2-chloroisopropyl) Ether	ND	2.57	0.12	0.25	5	-	51, F2	85-119
Bis (2-ethylhexyl) Adipate	ND	2.74	0.25	0.25	5	-	55	46-117
Bis (2-ethylhexyl) Phthalate	ND	2.33	0.13	0.25	5	-	47, F2	50-124
4-Bromophenyl Phenyl Ether	ND	2.60	0.16	0.25	5	-	52, F2	70-112
Butylbenzyl Phthalate	ND	2.79	0.13	0.25	5	-	56	55-127
4-Chloroaniline	ND	1.19	0.13	0.50	5	-	24	18-77
4-Chloro-3-methylphenol	ND	2.62	0.12	0.25	5	-	52	49-123
2-Chloronaphthalene	ND	2.32	0.16	0.25	5	-	46	44-109
2-Chlorophenol	ND	2.81	0.14	0.25	5	-	56	55-116
4-Chlorophenyl Phenyl Ether	ND	2.60	0.15	0.25	5	-	52	45-122
Chrysene	ND	2.70	0.14	0.25	5	-	54	54-116
Dibenzo (a,h) anthracene	ND	3.05	0.16	0.25	5	-	61	52-141
Dibenzofuran	ND	2.57	0.13	0.25	5	-	51	46-117
Di-n-butyl Phthalate	ND	2.34	0.13	0.25	5	-	47	45-126
1,2-Dichlorobenzene	ND	3.00	0.12	0.25	5	-	60	55-105
1,3-Dichlorobenzene	ND	2.85	0.14	0.25	5	-	57	51-104
1,4-Dichlorobenzene	ND	2.62	0.13	0.25	5	-	52	50-102
3,3-Dichlorobenzidine	ND	1.48	0.12	0.50	5	-	30	20-84
2,4-Dichlorophenol	ND	2.93	0.13	0.25	5	-	59	54-124
Diethyl Phthalate	ND	2.38	0.14	0.25	5	-	48	42-118
2,4-Dimethylphenol	ND	2.77	0.13	0.25	5	-	55	53-120
Dimethyl Phthalate	ND	2.33	0.14	0.25	5	-	47	45-118
4,6-Dinitro-2-methylphenol	ND	3.54	0.13	1.3	5	-	71	32-126

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146082
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-146082
 1709971-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	3.71	1.3	6.3	5	-	74	20-130
2,4-Dinitrotoluene	ND	2.66	0.13	0.25	5	-	53	47-117
2,6-Dinitrotoluene	ND	2.76	0.14	0.25	5	-	55	48-121
Di-n-octyl Phthalate	ND	2.95	0.14	0.50	5	-	59	40-150
1,2-Diphenylhydrazine	ND	2.44	0.16	0.25	5	-	49, F2	88-117
Fluoranthene	ND	2.48	0.13	0.25	5	-	50	45-126
Fluorene	ND	2.38	0.14	0.25	5	-	48	43-118
Hexachlorobenzene	ND	2.46	0.17	0.25	5	-	49	47-130
Hexachlorobutadiene	ND	2.88	0.15	0.25	5	-	58	50-121
Hexachlorocyclopentadiene	ND	2.26	0.73	1.3	5	-	45	30-89
Hexachloroethane	ND	3.05	0.14	0.25	5	-	61	50-106
Indeno (1,2,3-cd) pyrene	ND	3.07	0.14	0.25	5	-	61	51-138
Isophorone	ND	2.02	0.12	0.25	5	-	40	38-92
2-Methylnaphthalene	ND	2.63	0.14	0.25	5	-	53	51-121
2-Methylphenol (o-Cresol)	ND	2.74	0.14	0.25	5	-	55	48-114
3 & 4-Methylphenol (m,p-Cresol)	ND	2.50	0.12	0.25	5	-	50	30-130
Naphthalene	ND	2.49	0.13	0.25	5	-	50	50-113
2-Nitroaniline	ND	2.32	0.62	1.3	5	-	46	45-115
3-Nitroaniline	ND	1.70	0.59	1.3	5	-	34	31-93
4-Nitroaniline	ND	2.20	0.55	1.3	5	-	44	41-108
Nitrobenzene	ND	2.88	0.14	0.25	5	-	58	49-122
2-Nitrophenol	ND	3.28	0.64	1.3	5	-	66	54-121
4-Nitrophenol	ND	1.70	0.41	1.3	5	-	34, F2	40-102
N-Nitrosodiphenylamine	ND	-	0.16	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	2.38	0.13	0.25	5	-	48	47-108
Pentachlorophenol	ND	2.53	0.32	1.3	5	-	51	39-134
Phenanthrene	ND	2.48	0.14	0.25	5	-	50	49-123
Phenol	ND	2.52	0.12	0.25	5	-	50	49-107
Pyrene	ND	2.67	0.13	0.25	5	-	53, F2	55-124
Pyridine	ND	4.25	0.25	0.25	5	-	85	70-130
1,2,4-Trichlorobenzene	ND	2.86	0.14	0.25	5	-	57	51-121
2,4,5-Trichlorophenol	ND	2.93	0.12	0.25	5	-	59	45-126
2,4,6-Trichlorophenol	ND	2.71	0.14	0.25	5	-	54	46-128



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146082
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-146082
 1709971-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
2-Fluorophenol	3.491	3.25			5	70	65	47-125
Phenol-d5	3.105	2.94			5	62	59	45-117
Nitrobenzene-d5	3.037	3.11			5	61	62	39-121
2-Fluorobiphenyl	2.722	2.88			5	54	58	35-120
2,4,6-Tribromophenol	1.783	2.32			5	36	46	32-111
4-Terphenyl-d14	2.799	3.10			5	56	62	32-128



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland


WorkOrder: 1709972
BatchID: 146082
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-146082
 1709971-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<20	NR	NR	-	NR	-
Acenaphthylene	NR	NR		ND<20	NR	NR	-	NR	-
Anthracene	NR	NR		ND<20	NR	NR	-	NR	-
Benzidine	NR	NR		ND<100	NR	NR	-	NR	-
Benzo (a) anthracene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (a) pyrene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (b) fluoranthene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (g,h,i) perylene	NR	NR		ND<20	NR	NR	-	NR	-
Benzo (k) fluoranthene	NR	NR		ND<20	NR	NR	-	NR	-
Benzyl Alcohol	NR	NR		ND<100	NR	NR	-	NR	-
Bis (2-chloroethoxy) Methane	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-chloroethyl) Ether	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-chloroisopropyl) Ether	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-ethylhexyl) Adipate	NR	NR		ND<20	NR	NR	-	NR	-
Bis (2-ethylhexyl) Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
4-Bromophenyl Phenyl Ether	NR	NR		ND<20	NR	NR	-	NR	-
Butylbenzyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
4-Chloroaniline	NR	NR		ND<40	NR	NR	-	NR	-
4-Chloro-3-methylphenol	NR	NR		ND<20	NR	NR	-	NR	-
2-Chloronaphthalene	NR	NR		ND<20	NR	NR	-	NR	-
2-Chlorophenol	NR	NR		ND<20	NR	NR	-	NR	-
4-Chlorophenyl Phenyl Ether	NR	NR		ND<20	NR	NR	-	NR	-
Chrysene	NR	NR		ND<20	NR	NR	-	NR	-
Dibenzo (a,h) anthracene	NR	NR		ND<20	NR	NR	-	NR	-
Dibenzofuran	NR	NR		ND<20	NR	NR	-	NR	-
Di-n-butyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
1,2-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
1,3-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
1,4-Dichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
3,3-Dichlorobenzidine	NR	NR		ND<40	NR	NR	-	NR	-
2,4-Dichlorophenol	NR	NR		ND<20	NR	NR	-	NR	-
Diethyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
2,4-Dimethylphenol	NR	NR		ND<20	NR	NR	-	NR	-
Dimethyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
4,6-Dinitro-2-methylphenol	NR	NR		ND<100	NR	NR	-	NR	-
2,4-Dinitrophenol	NR	NR		ND<500	NR	NR	-	NR	-
2,4-Dinitrotoluene	NR	NR		ND<20	NR	NR	-	NR	-

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146082
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-146082
 1709971-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	NR	NR		ND<20	NR	NR	-	NR	-
Di-n-octyl Phthalate	NR	NR		ND<40	NR	NR	-	NR	-
1,2-Diphenylhydrazine	NR	NR		ND<20	NR	NR	-	NR	-
Fluoranthene	NR	NR		ND<20	NR	NR	-	NR	-
Fluorene	NR	NR		ND<20	NR	NR	-	NR	-
Hexachlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
Hexachlorobutadiene	NR	NR		ND<20	NR	NR	-	NR	-
Hexachlorocyclopentadiene	NR	NR		ND<100	NR	NR	-	NR	-
Hexachloroethane	NR	NR		ND<20	NR	NR	-	NR	-
Indeno (1,2,3-cd) pyrene	NR	NR		ND<20	NR	NR	-	NR	-
Isophorone	NR	NR		ND<20	NR	NR	-	NR	-
2-Methylnaphthalene	NR	NR		ND<20	NR	NR	-	NR	-
2-Methylphenol (o-Cresol)	NR	NR		ND<20	NR	NR	-	NR	-
3 & 4-Methylphenol (m,p-Cresol)	NR	NR		ND<20	NR	NR	-	NR	-
Naphthalene	NR	NR		ND<20	NR	NR	-	NR	-
2-Nitroaniline	NR	NR		ND<100	NR	NR	-	NR	-
3-Nitroaniline	NR	NR		ND<100	NR	NR	-	NR	-
4-Nitroaniline	NR	NR		ND<100	NR	NR	-	NR	-
Nitrobenzene	NR	NR		ND<20	NR	NR	-	NR	-
2-Nitrophenol	NR	NR		ND<100	NR	NR	-	NR	-
4-Nitrophenol	NR	NR		ND<100	NR	NR	-	NR	-
N-Nitrosodi-n-propylamine	NR	NR		ND<20	NR	NR	-	NR	-
Pentachlorophenol	NR	NR		ND<100	NR	NR	-	NR	-
Phenanthrene	NR	NR		ND<20	NR	NR	-	NR	-
Phenol	NR	NR		ND<20	NR	NR	-	NR	-
Pyrene	NR	NR		ND<20	NR	NR	-	NR	-
Pyridine	NR	NR		ND<20	NR	NR	-	NR	-
1,2,4-Trichlorobenzene	NR	NR		ND<20	NR	NR	-	NR	-
2,4,5-Trichlorophenol	NR	NR		ND<20	NR	NR	-	NR	-
2,4,6-Trichlorophenol	NR	NR		ND<20	NR	NR	-	NR	-



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17
Instrument: GC17
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146082
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-146082
 1709971-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
2-Fluorophenol	NR	NR			NR	NR	-	NR	-
Phenol-d5	NR	NR			NR	NR	-	NR	-
Nitrobenzene-d5	NR	NR			NR	NR	-	NR	-
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	-
2,4,6-Tribromophenol	NR	NR			NR	NR	-	NR	-
4-Terphenyl-d14	NR	NR			NR	NR	-	NR	-



Quality Control Report


Client:	ERAS Environmental, Inc.	WorkOrder:	1709972
Date Prepared:	9/25/17	BatchID:	146090
Date Analyzed:	9/26/17 - 9/27/17	Extraction Method	E625
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-146090

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.24	2.0	-	-	-
Acenaphthylene	ND	0.26	2.0	-	-	-
Acetochlor	ND	1.0	2.0	-	-	-
Anthracene	ND	0.15	2.0	-	-	-
Benzidine	ND	0.29	10	-	-	-
Benzo (a) anthracene	ND	0.16	2.0	-	-	-
Benzo (a) pyrene	ND	0.17	2.0	-	-	-
Benzo (b) fluoranthene	ND	0.16	2.0	-	-	-
Benzo (g,h,i) perylene	ND	0.18	2.0	-	-	-
Benzo (k) fluoranthene	ND	0.20	2.0	-	-	-
Benzyl Alcohol	ND	1.5	10	-	-	-
1,1-Biphenyl	ND	0.26	2.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.30	2.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.24	2.0	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.28	2.0	-	-	-
Bis (2-ethylhexyl) Adipate	ND	2.0	2.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.34	4.0	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.17	10	-	-	-
Butylbenzyl Phthalate	ND	0.29	2.0	-	-	-
4-Chloroaniline	ND	0.33	4.0	-	-	-
4-Chloro-3-methylphenol	ND	0.27	10	-	-	-
2-Chloronaphthalene	ND	0.25	2.0	-	-	-
2-Chlorophenol	ND	0.26	2.0	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.20	2.0	-	-	-
Chrysene	ND	0.18	2.0	-	-	-
Dibenzo (a,h) anthracene	ND	0.19	2.0	-	-	-
Dibenzofuran	ND	0.21	2.0	-	-	-
Di-n-butyl Phthalate	ND	0.30	2.0	-	-	-
1,2-Dichlorobenzene	ND	0.23	2.0	-	-	-
1,3-Dichlorobenzene	ND	0.22	2.0	-	-	-
1,4-Dichlorobenzene	ND	0.22	2.0	-	-	-
3,3-Dichlorobenzidine	ND	0.14	4.0	-	-	-
2,4-Dichlorophenol	ND	0.28	2.0	-	-	-
Diethyl Phthalate	ND	0.15	2.0	-	-	-
2,4-Dimethylphenol	ND	0.098	2.0	-	-	-
Dimethyl Phthalate	ND	0.18	2.0	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.98	10	-	-	-
2,4-Dinitrophenol	ND	0.87	25	-	-	-
2,4-Dinitrotoluene	ND	0.17	2.0	-	-	-

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NELAP 4033ORELAP

 QA/QC Officer



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709972
Date Prepared:	9/25/17	BatchID:	146090
Date Analyzed:	9/26/17 - 9/27/17	Extraction Method	E625
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-146090

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,6-Dinitrotoluene	ND	0.20	2.0	-	-	-
Di-n-octyl Phthalate	ND	0.27	2.0	-	-	-
1,2-Diphenylhydrazine	ND	0.16	2.0	-	-	-
Fluoranthene	ND	0.18	2.0	-	-	-
Fluorene	ND	0.20	2.0	-	-	-
Hexachlorobenzene	ND	0.18	2.0	-	-	-
Hexachlorobutadiene	ND	0.24	2.0	-	-	-
Hexachlorocyclopentadiene	ND	1.2	10	-	-	-
Hexachloroethane	ND	0.29	2.0	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.19	2.0	-	-	-
Isophorone	ND	0.32	2.0	-	-	-
2-Methylnaphthalene	ND	0.29	2.0	-	-	-
2-Methylphenol (o-Cresol)	ND	0.19	2.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.19	2.0	-	-	-
Naphthalene	ND	0.24	2.0	-	-	-
2-Nitroaniline	ND	1.3	10	-	-	-
3-Nitroaniline	ND	1.2	10	-	-	-
4-Nitroaniline	ND	1.2	10	-	-	-
Nitrobenzene	ND	0.32	2.0	-	-	-
2-Nitrophenol	ND	1.4	10	-	-	-
4-Nitrophenol	ND	1.7	10	-	-	-
N-Nitrosodiphenylamine	ND	0.18	2.0	-	-	-
N-Nitrosodi-n-propylamine	ND	0.35	2.0	-	-	-
Pentachlorophenol	ND	0.50	10	-	-	-
Phenanthrene	ND	0.22	2.0	-	-	-
Phenol	ND	0.34	2.0	-	-	-
Pyrene	ND	0.24	2.0	-	-	-
Pyridine	ND	2.0	2.0	-	-	-
1,2,4-Trichlorobenzene	ND	0.22	2.0	-	-	-
2,4,5-Trichlorophenol	ND	0.21	2.0	-	-	-
2,4,6-Trichlorophenol	ND	0.23	2.0	-	-	-



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709972
Date Prepared: 9/25/17	BatchID: 146090
Date Analyzed: 9/26/17 - 9/27/17	Extraction Method: E625
Instrument: GC21	Analytical Method: SW8270C
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-146090

QC Summary Report for SW8270C

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	14.37			20	72	8-130
Phenol-d5	15.71			20	79	5-130
Nitrobenzene-d5	12.87			20	64	20-140
2-Fluorobiphenyl	12.68			20	63	40-140
2,4,6-Tribromophenol	16.48			20	82	16-180
4-Terphenyl-d14	13.79			20	69	40-170



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/25/17
Date Analyzed: 9/26/17 - 9/27/17
Instrument: GC21
Matrix: Water
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146090
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-146090

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	8.65	9.13	10	86	91	63-119	5.40	25
Acenaphthylene	8.92	9.41	10	89	94	57-125	5.28	25
Acetochlor	8.48	8.82	10	85	88	30-130	3.97	25
Anthracene	8.54	9.01	10	85	90	67-130	5.36	25
Benzidine	35.0	39.8	50	70	80	43-106	12.7	25
Benzo (a) anthracene	9.21	9.77	10	92	98	64-109	5.92	25
Benzo (a) pyrene	9.21	9.65	10	92	96	74-130	4.61	25
Benzo (b) fluoranthene	9.63	10.3	10	96	103	70-128	6.65	25
Benzo (g,h,i) perylene	8.02	8.35	10	80	84	69-128	4.07	25
Benzo (k) fluoranthene	8.80	9.20	10	88	92	66-130	4.44	25
Benzyl Alcohol	43.3	45.8	50	87	92	53-117	5.77	25
1,1-Biphenyl	8.62	9.19	10	86	92	78-107	6.38	25
Bis (2-chloroethoxy) Methane	8.94	9.56	10	89	96	60-118	6.65	25
Bis (2-chloroethyl) Ether	8.84	9.19	10	88	92	47-116	3.87	25
Bis (2-chloroisopropyl) Ether	8.66	9.08	10	87	91	44-116	4.73	25
Bis (2-ethylhexyl) Adipate	8.87	9.71	10	89	97	55-122	9.08	25
Bis (2-ethylhexyl) Phthalate	9.00	9.66	10	90	97	64-131	7.09	25
4-Bromophenyl Phenyl Ether	8.29	9.21	10	83	92	68-129	10.5	25
Butylbenzyl Phthalate	9.01	9.87	10	90	99	66-131	9.16	25
4-Chloroaniline	9.31	9.87	10	93	99	63-120	5.84	25
4-Chloro-3-methylphenol	9.77	10.2	10	98	102	69-127	4.08	25
2-Chloronaphthalene	9.52	10.1	10	95	101	61-120	6.30	25
2-Chlorophenol	8.89	9.21	10	89	92	49-119	3.56	25
4-Chlorophenyl Phenyl Ether	8.91	9.31	10	89	93	65-124	4.35	25
Chrysene	9.08	9.64	10	91	96	67-121	5.99	25
Dibenzo (a,h) anthracene	8.75	9.12	10	88	91	74-126	4.06	25
Dibenzofuran	8.99	9.40	10	90	94	64-122	4.39	25
Di-n-butyl Phthalate	8.15	8.62	10	82	86	64-139	5.56	25
1,2-Dichlorobenzene	8.59	8.98	10	86	90	44-115	4.47	25
1,3-Dichlorobenzene	8.73	9.11	10	87	91	42-114	4.20	25
1,4-Dichlorobenzene	7.84	8.11	10	78	81	43-114	3.37	25
3,3-Dichlorobenzidine	9.47	10.4	10	95	104	10-154	9.77	25
2,4-Dichlorophenol	9.91	10.3	10	99	103	65-123	4.14	25
Diethyl Phthalate	8.70	9.22	10	87	92	62-127	5.70	25
2,4-Dimethylphenol	10.1	10.7	10	101	107	60-119	5.67	25
Dimethyl Phthalate	8.64	9.17	10	86	92	63-125	5.89	25
4,6-Dinitro-2-methylphenol	41.9	46.8	50	84	94	59-123	11.1	25
2,4-Dinitrophenol	44.1	49.4	50	88	99	43-127	11.2	25
2,4-Dinitrotoluene	9.57	10.1	10	96	101	68-125	5.66	25

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709972
Date Prepared:	9/25/17	BatchID:	146090
Date Analyzed:	9/26/17 - 9/27/17	Extraction Method	E625
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-146090

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	9.67	10.3	10	97	103	66-126	5.91	25
Di-n-octyl Phthalate	8.44	9.24	10	84	92	58-141	8.95	25
1,2-Diphenylhydrazine	8.25	8.64	10	83	86	66-128	4.61	25
Fluoranthene	9.17	9.59	10	92	96	68-134	4.52	25
Fluorene	9.16	9.52	10	92	95	63-121	3.88	25
Hexachlorobenzene	7.51	7.90	10	75	79	68-127	4.99	25
Hexachlorobutadiene	8.26	8.72	10	83	87	48-122	5.48	25
Hexachlorocyclopentadiene	37.8	40.8	50	76	82	36-109	7.53	25
Hexachloroethane	8.46	8.85	10	85	89	43-116	4.55	25
Indeno (1,2,3-cd) pyrene	8.32	8.66	10	83	87	73-128	3.99	25
Isophorone	8.81	9.38	10	88	94	64-121	6.24	25
2-Methylnaphthalene	9.22	9.78	10	92	98	58-122	5.87	25
2-Methylphenol (o-Cresol)	9.46	9.88	10	95	99	55-121	4.34	25
3 & 4-Methylphenol (m,p-Cresol)	10.1	10.6	10	101	106	58-121	4.94	25
Naphthalene	8.32	8.73	10	83	87	53-120	4.82	25
2-Nitroaniline	46.7	48.3	50	93	97	65-124	3.43	25
3-Nitroaniline	46.2	48.1	50	92	96	67-125	4.20	25
4-Nitroaniline	47.9	50.1	50	96	100	65-124	4.53	25
Nitrobenzene	8.66	9.32	10	87	93	54-125	7.36	25
2-Nitrophenol	48.0	50.8	50	96	102	56-132	5.76	25
4-Nitrophenol	46.5	49.4	50	93	99	60-126	5.93	25
N-Nitrosodiphenylamine	8.44	9.06	10	84	91	67-132	7.09	25
N-Nitrosodi-n-propylamine	9.31	9.86	10	93	99	61-120	5.77	25
Pentachlorophenol	25.0	25.7	20	125	129	50-146	2.72	25
Phenanthrene	8.95	9.41	10	90	94	67-127	4.95	25
Phenol	9.07	9.26	10	91	93	52-119	1.98	25
Pyrene	8.49	9.25	10	85	92	67-132	8.57	25
Pyridine	7.18	8.02	10	72	80	40-160	11.1	25
1,2,4-Trichlorobenzene	8.66	9.02	10	87	90	50-121	4.03	25
2,4,5-Trichlorophenol	9.78	10.3	10	98	103	62-124	5.12	25
2,4,6-Trichlorophenol	9.22	9.83	10	92	98	61-125	6.42	25

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1709972
Date Prepared:	9/25/17	BatchID:	146090
Date Analyzed:	9/26/17 - 9/27/17	Extraction Method	E625
Instrument:	GC21	Analytical Method:	SW8270C
Matrix:	Water	Unit:	µg/L
Project:	16-005-02; 1091 Calcot Place, Oakland	Sample ID:	MB/LCS/LCSD-146090

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	20.6	20.8	20	103	104	29-140	0.950	25
Phenol-d5	22.1	22.6	20	110	113	38-148	2.19	25
Nitrobenzene-d5	20.3	22.0	20	102	110	31-152	7.79	25
2-Fluorobiphenyl	19.8	20.6	20	99	103	40-140	3.53	25
2,4,6-Tribromophenol	23.9	25.3	20	119	126	39-150	5.75	25
4-Terphenyl-d14	20.2	22.3	20	101	112	38-147	10.1	25



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1709972
Date Prepared: 9/27/17	BatchID: 146193
Date Analyzed: 9/27/17	Extraction Method: SW3510C
Instrument: GC11A	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: 16-005-02; 1091 Calcot Place, Oakland	Sample ID: MB/LCS/LCSD-146193

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	35	35	-	-	-
TPH-Motor Oil (C18-C36)	ND	75	75	-	-	-
Surrogate Recovery						
C26	102.5			125	82	70-112

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	163	164	200	81	82	60-142	0.552	30
Surrogate Recovery								
C26	108	113	125	86	90	70-112	4.58	30



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 9/26/17
Date Analyzed: 9/26/17 - 9/27/17
Instrument: GC9b
Matrix: Soil
Project: 16-005-02; 1091 Calcot Place, Oakland

WorkOrder: 1709972
BatchID: 146115
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-146115
 1709A09-003AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	31.6	0.86	1.0	40	-	79	75-128
TPH-Motor Oil (C18-C36)	ND	-	3.5	5.0	-	-	-	-
Surrogate Recovery								
C9	23.62	23.6			25	94	94	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	28.8	39.4	40	ND	72	99	71-134	31.2,F1	30
Surrogate Recovery									
C9	23.2	24.6	25		93	98	78-126	5.47	30



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

WaterTrax WriteOn EDF

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1709972

ClientCode: ERAS

Excel EQulS Email HardCopy ThirdParty J-flag
 Detection Summary Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz
cc/3rd Party:
PO:
ProjectNo: 16-005-02

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 09/22/2017

Date Logged: 09/22/2017

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
1709972-001	EW-1	Water	9/22/2017 08:40	<input type="checkbox"/>		D		D		C		B	A	A		
1709972-002	CP-1	Soil	9/22/2017 08:22	<input type="checkbox"/>	A		A		A		A				A	

Test Legend:

1	8260B_S	2	8260B_W	3	8260GAS_S	4	8260GAS_W
5	8270_PNA_S	6	8270_PNA_W	7	8270_S	8	8270_W
9	PREFD REPORT	10	TPH(DMO)LVWSG_W	11	TPH(DMO)WSG_S	12	

Prepared by: Alexandra Iniguez

The following SampID: 002A contains testgroup Gas8260_S.; The following SampID: 001D contains testgroup Gas8260_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.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 16-005-02; 1091 Calcot Place, Oakland

Work Order: 1709972

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz

Comments:

Date Logged: 9/22/2017

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
1709972-001A	EW-1	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	1LA	<input type="checkbox"/>	9/22/2017 8:40	5 days	Present	<input checked="" type="checkbox"/>	
			SW8015B (TPH-d,mo)			<input type="checkbox"/>			Present	<input type="checkbox"/>	
1709972-001B	EW-1	Water	SW8270C (SVOCs)	1	1LA	<input type="checkbox"/>	9/22/2017 8:40	5 days	Present	<input type="checkbox"/>	
1709972-001C	EW-1	Water	SW8270C (PAHs/PNAs)	1	1LA	<input type="checkbox"/>	9/22/2017 8:40	5 days	Present	<input type="checkbox"/>	
1709972-001D	EW-1	Water	TPH(g) & 8260 by P&T GCMS	6	VOA w/ HCl	<input type="checkbox"/>	9/22/2017 8:31	5 days	Present	<input type="checkbox"/>	
1709972-002A	CP-1	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	2	Acetate Liner	<input type="checkbox"/>	9/22/2017 8:22	5 days		<input checked="" type="checkbox"/>	
			SW8015B (Diesel & Motor Oil)			<input type="checkbox"/>			5 days		<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>			5 days		<input type="checkbox"/>
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>			5 days		<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>			5 days		<input type="checkbox"/>

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.



Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.**
 Project Name: **16-005-02**

Date and Time Received: **9/22/2017 10:07**
 Date Logged: **9/22/2017**
 Received by: **Maria Venegas**
 Logged by: **Alexandra Iniguez**

WorkOrder No: **1709972** Matrix: Soil/Water
 Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample/Temp Blank temperature	Temp: 12.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

APPENDIX E

Well Elevation Survey and DWR Well Completion Report



CSS ENVIRONMENTAL SERVICES, INC.
 Managing Cost, Scope and Schedule
 100 Galli Drive, Suite 1
 Novato, CA 94949
 Telephone: (415) 883-6203
 Facsimile: (415) 883-6204

Site Positions

CSS Project 6896 - PES Environmental
 1091 Calcot Place, Oakland, CA

Horizontal Coordinate System: North American 1983-CONUS Survey Date: 09/19/17
 Height System: North American Vertical Datum 1988
 Project file: 6896-2 PES Oakland.spr
 Desired Horizontal Accuracy: 0.300Ft + 1ppm
 Desired Vertical Accuracy: 0.01 Ft Relative to Control
 Confidence Level: 95% Err.
 Linear Units of Measure: Int. Feet
 Survey Description: Survey per GeoTracker Guidelines

Site ID	Site Descriptor	Position	95% Error	Fix Status	Position Status
1 3814	MONUMENT AA3814	Lat. 37° 44' 59.76431" N	0.000	Fixed	Processed
		Lon. 122° 12' 18.12314" W	0.000	Fixed	
		Elv. 11.60	0.000	Fixed	
2 2327	MONUMENT HT2327	Lat. 37° 42' 03.09765" N	0.000	Fixed	Processed
		Lon. 122° 11' 22.16715" W	0.000	Fixed	
		Elv. 8.83	0.000	Fixed	
3 EW-1	N BOX RIM/TBMA	Lat. 37° 46' 57.10181" N	0.032		Processed
		Lon. 122° 14' 19.40980" W	0.039		
		N RIM Elv. 16.66	0.045		
		N TOC Elv. 15.99			



File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0355430

Page 1 of 1

Owner's Well Number EW-1

Date Work Began 8/31/17

Date Work Ended 8/31/17

Local Permit Agency Alameda County Public Works Agency

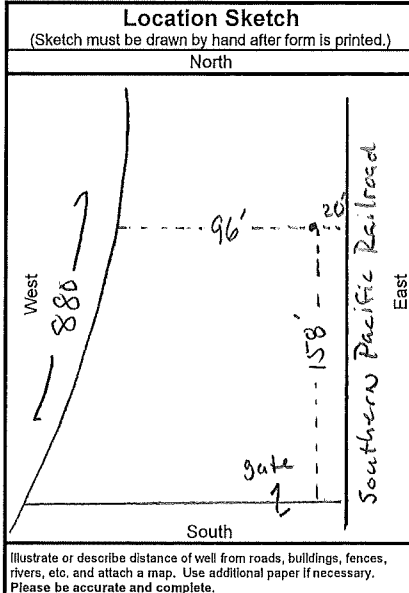
Permit Number W2017-0662/0663 Permit Date 8/24/17

DWR Use Only - Do Not Fill In			
State Well Number/Site Number			
Latitude		Longitude	
APN/TRS/Other			

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method _____ Drilling Fluid _____		
Depth from Surface		Description
Feet	to Feet	Describe material, grain size, color, etc
0	1	Asphalt + 3/4" base rock
1	5	Silty Clay (CL), dark brown (10YR 3/3), moist, medium stiff, medium plasticity.
5	10	Silty Clay (CL), dark yellowish brown (10YR 3/4), moist, medium plasticity
10	13	Silty Clay (CL), dark brown (10YR 3/3), moist, medium stiff, medium plasticity
13	15	Clayey Silt (ML), yellowish brown (10YR 5/8), wet, stiff, low plasticity
15	20	Silty Clay (CL), dark yellowish brown, (10YR 5/8), wet, stiff, low plasticity
20	24	Silty clay (CL), dark yellowish brown, (10YR 4/6), dry, stiff, low plasticity.
Bottom of boring 24'		
Water 14'		
Total Depth of Boring <u>24'</u> Feet		
Total Depth of Completed Well <u>24'</u> Feet		

Well Owner	
Name	<u>Bob Winet</u>
Mailing Address	<u>36966 Pinto Palm Street</u>
City	<u>Rancho Mirage</u> State <u>CA</u> Zip <u>92270</u>

Well Location	
Address	<u>1091 Calcot Place</u>
City	<u>Oakland</u> County <u>Alameda</u>
Latitude	<u>37° 46' 57.1"</u> N Longitude <u>122° 14' 19.4"</u> W
Datum	Dec. Lat. _____ Dec. Long. _____
APN Book	<u>19</u> Page <u>55</u> Parcel <u>10</u>
Township	<u>T2S</u> Range <u>RBW</u> Section <u>36</u>



Activity	
<input checked="" type="radio"/> New Well	<input type="radio"/> Modification/Repair
<input type="radio"/> Deepen	<input type="radio"/> Other
<input type="radio"/> Destroy	Describe procedures and materials under "GEOLOGIC LOG"
Planned Uses	
<input type="radio"/> Water Supply	<input type="checkbox"/> Domestic <input type="checkbox"/> Public
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Industrial
<input type="radio"/> Cathodic Protection	<input type="radio"/> Dewatering
<input type="radio"/> Heat Exchange	<input type="radio"/> Injection
<input type="radio"/> Monitoring	<input type="radio"/> Remediation
<input type="radio"/> Sparging	<input type="radio"/> Test Well
<input type="radio"/> Vapor Extraction	<input checked="" type="radio"/> Other <u>Extraction</u>

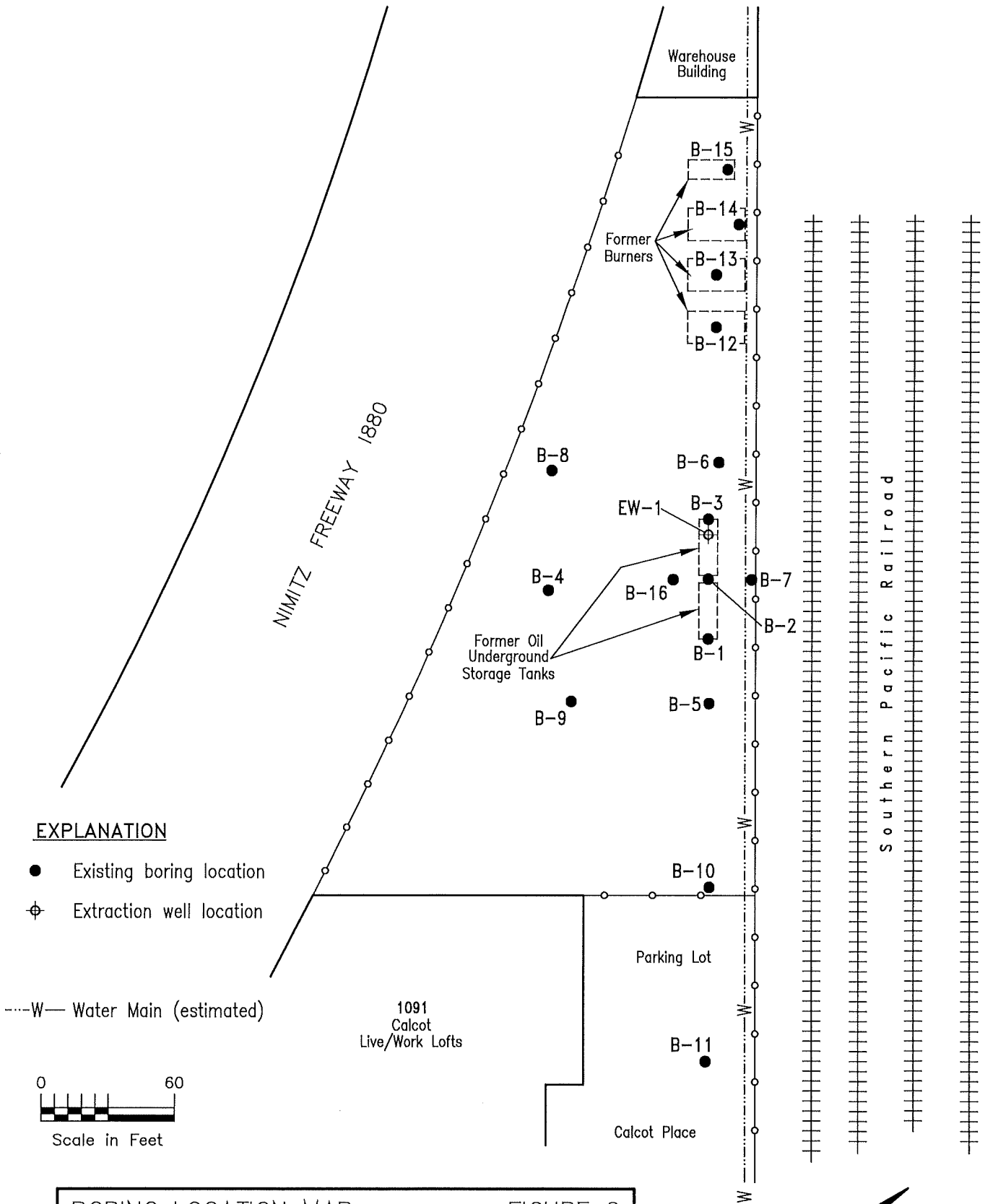
Water Level and Yield of Completed Well	
Depth to first water	<u>14'</u> (Feet below surface)
Depth to Static	
Water Level	<u>14'</u> (Feet) Date Measured <u>8/31/17</u>
Estimated Yield *	(GPM) Test Type _____
Test Length	(Hours) Total Drawdown _____ (Feet)
*May not be representative of a well's long term yield.	

Casings						
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen
Feet to Feet	(Inches)			(Inches)	(Inches)	Type
0	6	4"	Sch 40 PVC			solid
6	24	4"	Sch 40 PVC			slotted 0.010"

Annular Material			
Depth from Surface	Fill	Description	
Feet to Feet			
0	5	grout	Portland Cement
5	6	bentonite	
6	24	Sand	# 2/12 Sand

Attachments	
<input type="checkbox"/> Geologic Log	<input checked="" type="checkbox"/> Well Construction Diagram
<input type="checkbox"/> Geophysical Log(s)	<input type="checkbox"/> Soil/Water Chemical Analyses
<input type="checkbox"/> Other	
Attach additional information, if it exists.	

Certification Statement	
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief	
Name	<u>Environmental Control Associates, Inc. (ECA)</u>
Person, Firm or Corporation	
Address	<u>3011 Twin Palms Drive</u> City <u>Aptos</u> State <u>CA</u> Zip <u>95003</u>
Signed	<u>10/30/17</u> Date Signed <u>695970</u> C-57 License Number
C-57 Licensed Water Well Contractor	

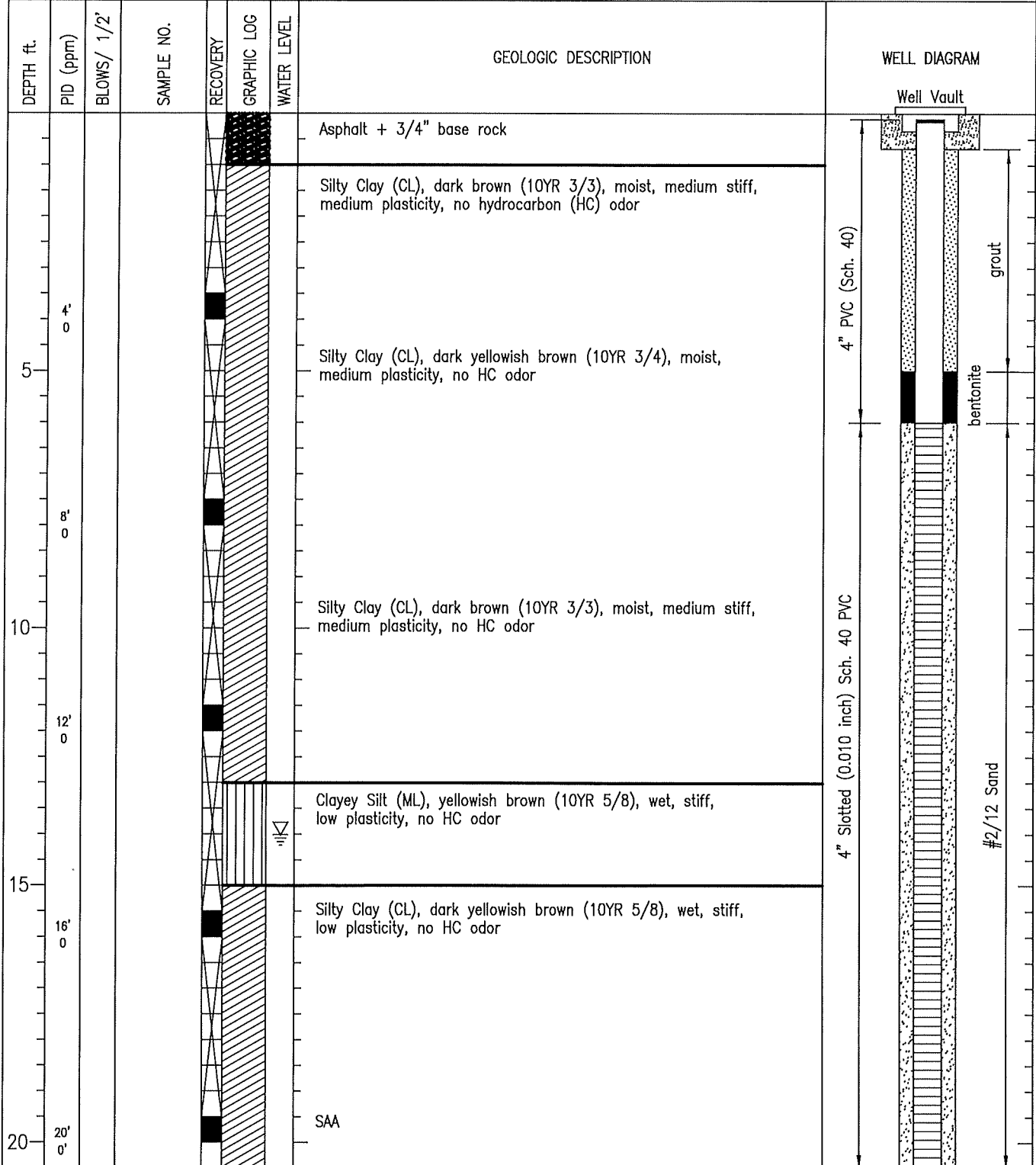


BORING LOCATION MAP **FIGURE 2**

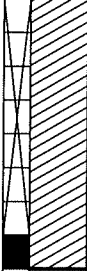
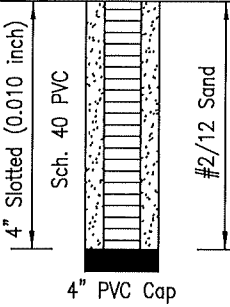
Project No. 16-005-02
 1091 Calcot Place
 Oakland, CA

August, 2017
 Scale 1"=60'

PROJECT: 16-005-02	ADDRESS: 1091 Calcot Place
JOB NUMBER: 16-005-02	LOCATION: north end of pit
DATE STARTED: 08-31-2017	First Water (ft. bgs.): 14' DATE: 08-31-2017
DATE FINISHED: 08-31-2017	TOTAL DEPTH: 24 feet
DRILLING METHOD: Hydraulic Push	GEOLOGIST: Greg Munsell
DRILLING COMPANY: ECA	Reviewed By: Curtis Payton II



PROJECT: 16-005-02	ADDRESS: 1091 Calcot Place
JOB NUMBER: 16-005-02	LOCATION: north end of pit
DATE STARTED: 08-31-2017	First Water (ft. bgs.): 14' DATE: 08-31-2017
DATE FINISHED: 08-31-2017	TOTAL DEPTH: 24 feet
DRILLING METHOD: Hydraulic Push	GEOLOGIST: Greg Munsell
DRILLING COMPANY: ECA	Reviewed By: Curtis Payton II

DEPTH ft.	PID (ppm)	BLOWS / 1/2'	SAMPLE NO.	RECOVERY	GRAPHIC LOG	WATER LEVEL	GEOLOGIC DESCRIPTION	WELL DIAGRAM
24' 0							Silty Clay (CL), dark yellowish brown (10YR 4/6), dry, stiff, low plasticity, no HC odor	
25							Bottom of boring 24 feet bgs, 08-31-2017	
30								
35								
40								

APPENDIX F

Well Development & Sampling Data

WELL DEVELOPMENT DATA

Well # EW-1
 Project # 16-005-02 Project Location Calcut Place
 Purge Date September 15, 2017 Personnel Greg Munsell
 Development Method Surge & Pump Purge Rate (pump only) _____
 Parameter Meter _____

Depth to Bottom (ft)	- Depth to Water (ft)	= Water Column (ft)	* Volume Factor 0.75"=.023 2"=0.17 4"=0.66	= Casing Volume (gallons)
25 feet	8 feet	17'	17(0.66)	11.2

Time (24 hour clock)	Gallons Removed	EC (uS/cm)	Temp [C]	pH	Color/Clarity	NOTES
0921					Cloudy/ brownish	Surge well for ≈ 1/2 hour w/ four inch surge boiler
1011-1121	55gals	518	20.3C	6.35	Clear	pumped 55gals well slow to exclude surge well for ≈ one hour
0816		567	20.5C	6.24	Clear	Almost filled three 55-gallon drums. Faint HCader observed.
0924	≈ 160gals	570		6.24		
1417						
0857	≈ 120gals	571	20.5C	6.31	Clear	Surge well for ≈ one half hour. Pumped = 120gals water
0941						
1521		564				

Well Dewatered (Y/N)	Total Volume Removed (gal)	Casing Vol removed
Y	335	30

Depth to Water at Sampling	Date Sampled	Time Sampled	Sample Method	#/type containers
≈ 17'	9/15/9/19 & 9/21	see above	Surge/purge	6/55 gallon

Well # EW-1

9/15/17
9/19/17
9/21/17

GROUNDWATER SAMPLE DATA

Well # EW-1

Project # 16-005-02 **Project Location** Calcut Place

Purge Date 9/21/17 **Personnel** Greg Maxwell

Purge Method Surge & Pump **Purge Rate (pump only)** _____

Parameter Meter _____

Depth to Bottom	= Depth to Water	= Casing volume	* Volume Factor 0.75"=0.023 2"=0.17 4"=0.66	= Gallons per CV
<u>25 feet</u>	<u>8 feet</u>	<u>17'</u>	<u>17(0.66)</u>	<u>11.2</u>

Time (24 hour clock)	Gallons Removed	EC (uS/cm)	Temp [C]	pH	Sheen (Y,N,U)	NOTES
<u>0857</u>	<u>15 gals</u>	<u>598</u>	<u>20.3C</u>	<u>6.35</u>	<u>N</u>	<u>Surge well for 1/2 hour</u>
<u>1011</u>	<u>30 gals</u>	<u>570</u>	<u>20.5C</u>	<u>6.24</u>	<u>N</u>	<u>Surge well for one hour</u>
<u>1134</u>	<u>45 gals</u>	<u>571</u>	<u>20.5C</u>	<u>6.31</u>	<u>N</u>	<u>Surge well for 1/2 hour</u>

Well Dewatered (Y/N)	Total Volume Removed (gal)	Casing Vol removed
<u>Y</u>	<u>335</u>	<u>30</u>

Depth to Water at Sampling	Date Sampled	Time Sampled	Sample Method	#/type containers
<u>~17'</u>	<u>9/15/9/19/9/21</u>	<u>at/about</u>	<u>surge/purge</u>	<u>6/55 gal Drums</u>

Well # EW-1