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I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Robert A. Elliott Sr.
Power of Attorney Mark C. Elliott

Mark C Elliott

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February 17, 2016

REPORT
Of
SOIL, GROUNDWATER, AND SOIL VAPOR ASSESSMENT
ASE JOB NO. 4645

At
Elliott Property
745 Kevin Court
Oakland, California

Prepared for:
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1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s soil, groundwater, and soil vapor assessment at 745 Kevin Court in Oakland, California (Figures 1 through 3). This report was prepared for Mark Elliott, the current property owner.

2.0 BACKGROUND

The subject property has been owned by The Elliott Family since the mid 1970's and used by their family as a roofing company warehouse and yard. At the time of the property purchase, the buildings along the western property line and a 1,000 gallon underground storage tank (UST) already existed at the site. The Elliotts built the building on the eastern side of the property some time later.

A Phase I Environmental Site Assessment was completed for the subject site by ERAS Environmental in October 2014. During the Phase I, files from the Alameda County Health Care Services Agency (ACHCSA) and the Oakland Fire Department (OFD) were reviewed, and records were noted that a 1,000 gallon UST that held motor-vehicle fuel (gasoline) was located at the site, and removed in 1991 (by the Elliotts). The files were not complete – items regarding UST use permits and the UST removal report were missing. No files indicating soil or water sampling at the time of the UST's removal were found in the files.

In November 2014, AEI Consultants performed a Phase II Site Assessment at the subject site that included the installation of four shallow soil borings within and surrounding the former UST location for the collection of grab groundwater samples. Total petroleum hydrocarbons as gasoline (TPH-G), benzene, and toluene were identified in groundwater samples collected from three of the four grab water samples. The highest concentrations were identified in soil boring HP-2, located just north of the former UST, and included 6,200 parts per billion (ppb) TPH-G, 73 ppb benzene, and 12 ppb toluene. AEI concluded that the findings of their 2014 investigation indicated that gasoline-impacted soil exists in the area of the former UST, which appears to be acting as the source of groundwater impacts.

3.0 SCOPE OF WORK (SOW)

The scope of work is as follows:

1) Obtain drilling permits from the Alameda County Public Works Agency to drill soil borings and to install vapor monitoring wells.

2) Notify Underground Service Alert (USA) of the drilling and have drilling locations cleared of subsurface utility lines by a private subsurface utility line locating company.

3) Drill four soil borings using a Geoprobe and collect soil and groundwater samples for analysis. One boring in the former UST area will be left open overnight with a temporary casing and will be checked the following day for the presence of free-floating hydrocarbons.

4) Analyze two soil samples and one groundwater sample from each boring at a CAL-EPA certified analytical laboratory for total petroleum hydrocarbons as diesel (TPH-D) by modified Method 8015 with and without silica gel cleanup and TPH-G, benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX), naphthalene and fuel oxygenates by EPA Method 8260B.

5) Drill two soil borings to no greater than 5-feet bgs and install vapor monitoring wells in the borings. Collect soil vapor samples from each of the vapor extraction wells.

6) Analyze the soil vapor sample from each boring at a CAL-EPA certified analytical laboratory for TPH-G, BTEX and naphthalene by EPA Method TO-15, and oxygen and helium by ASTM D1946.

7) Prepare a report presenting the methods and findings of this assessment.

4.0 OBTAIN A DRILLING PERMIT FROM THE ALAMEDA COUNTY PUBLIC WORKS AGENCY AND CLEAR DRILLING LOCATIONS OF UNDERGROUND LINES

4.1 Drilling Permit

Prior to drilling, ASE obtained drilling permits from the Alameda County Public Works Agency to drill soil borings and to install soil vapor monitoring wells. Copies of the permits are presented in Appendix A.

4.2 Underground Utility Clearance

ASE notified Underground Service Alert (USA) to have public underground utility lines marked in the site vicinity 48-hours prior to drilling. ASE also subcontracted Cruz Brothers Locators of Stockton, California to clear each drilling location of underground utility lines prior to drilling.

5.0 DRILL ONE SOIL BORING OUTSIDE AND DOWNGRADIENT OF 2123 PACHECO STREET FOR COLLECTION OF SOIL AND GROUNDWATER SAMPLES

5.1 Drilling and Soil Sample Collection

On January 28, 2016, Cascade Drilling of Richmond, California drilled borings BH-A through BH-D using a Geoprobe 6600 hydraulic sampling rig. The boring locations are shown on Figure 3. ASE senior geologist Robert E. Kitay, P.G. directed the drilling. Boring BH-A was drilled in the former UST pit, and borings BH-B, BH-C and BH-D were drilled east, west and north of the former UST pit, respectively.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for chemical analysis. The samples were collected by driving a sampler lined with acetate tubes using hydraulic direct push methods. Selective soil samples were immediately cut, sealed with Teflon tape and plastic end caps, labeled and chilled in an ice chest with wet ice for transport to McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) under chain of custody documentation.

Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System (USCS) and was screened for volatile compounds using a photoionization detector (PID). The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the volatile organic compounds (VOCs) were allowed to volatilize, the PID measured the vapor in the bag through a small hole punched in the bag. PID readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. The PID readings are shown on the boring log presented in Appendix B. There were no PID readings greater than zero in any of the soil encountered.

5.2 Groundwater Sample Collection

A temporary PVC well casing was driven into place for the collection of groundwater samples from the boring. Groundwater samples were collected with a new polyethylene bailer. Groundwater samples were decanted from the bailer into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid and sealed without headspace. The samples were then labeled with the site location, sample designation, date and time the samples were collected, and the initials of the person collecting the samples. The samples were then sealed in plastic bags and cooled in an ice chest with wet ice for transport to McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) under chain-of-custody.

5.3 BH-A Free-Floating Hydrocarbon Measurements

Boring BH-A was secured to prevent rainwater from entering the borings overnight, and was checked the day following to determine whether free-floating petroleum hydrocarbons accumulated in the boring. On January 29, 2016, ASE lowered an interface probe into the casing to determine whether any free-floating hydrocarbons were present. No free-floating hydrocarbons were present. ASE also lowered a bailer to the surface and half filled the bailer with water. No free-floating hydrocarbons or sheen was present on the surface of the water in the bailer.

5.4 Decontamination and Borehole Backfilling

Drilling equipment was cleaned with an Alconox solution and triple rinsed between sampling intervals and between borings to prevent potential cross-contamination. Following collection of the soil and groundwater samples, each boring was backfilled with neat cement to the ground surface. Boring BH-A was backfilled the following day on January 29, 2016 after measurements for potential free-floating hydrocarbons were completed.

5.5 Subsurface Lithology and Hydrogeology

Sediments encountered during drilling generally consisted of gravely sand from beneath the asphalt or concrete surface to approximately 2-feet bgs, clayey silt from 2-feet bgs to 4.5-feet bgs, silty sand from 4.5-feet bgs to 6.5-feet bgs, clayey silt from 6.5-feet bgs to 8-feet bgs, and silty clay from 8-feet bgs to the total depth explored of 12-feet bgs. Groundwater was encountered at approximately 4-feet bgs. Boring logs are presented in Appendix B.

6.0 COLLECT SOIL VAPOR SAMPLES

Prior to conducting the project, ASE verified that there was no significant rainfall (no more than ¼-inch) for 5 days prior to the soil vapor sampling. There were no nearby irrigation systems.

On January 28, 2016, Cascade Drilling of Richmond, California pushed soil vapor points SVS-1 and SVW-2 to a depth of 3-feet bgs using a rotohammer (SVW-1) and drill rig (SVW-2). Each boring had an expendable point at the base of the rods. Once at depth, ¼" Teflon tubing with a 1-inch screen was inserted inside the drive rod and pushed to the bottom of the boring. The drive rod was then retracted approximately 6-inches separating the expendable point and the rods and creating the desired void for the sample collection membrane. Sand was then added to fill the void to 6-inches above the sample point. Above the sand, 6-inches of dry granulated bentonite was added to the surface to prevent ambient air intrusion into the borehole.

The borehole was then allowed to equilibrate for two hours prior to purging and sampling. A "vacuum shut in test" was then conducted to verify there were no leaks in the sample train system. A minimum vacuum of 100-inches of water column was applied to the sampling manifold and valve system between the Summa canister and the probe for at least 5 minutes with all valves closed. A vacuum of 100-inches of water was maintained during the test for both points. The manifold to be used for SVW-2 would not pass the "shut in test" even after multiple attempts and adjustments. For this reason, ASE made a decision to reuse the manifold that was used for SVW-1, although this would make the sample for SVW-2 susceptible to cross-contamination from SVW-1. However, given the final results it does not appear that any significant cross-contamination took place.

For the sampling, the sampling probe and Summa canister were placed in a plastic shroud. Helium was then added to the shroud as a tracer gas at a minimum concentration of 20% by volume. The tubing was then purged of at least three volumes to insure that all ambient air was removed from the tubing using a 5-liter Summa canister. The sample was then collected in a 1-liter Summa canister. The samples were labeled with the site location, sample designation, date and time the samples are collected, and the initials of the person collecting the sample. The samples were delivered under chain of custody to McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) under chain of custody documentation for analysis.

All disposable equipment and supplies were discarded and non-disposable equipment was cleaned with an Alconox solution and triple rinsed.

7.0 ANALYZE SOIL SAMPLES

The soil sample collected from 3.5-feet bgs (the capillary zone) and 7.5-feet bgs (silty clay interface with more permeable soil above) in borings BH-A, BH-B, BH-C and BH-D were analyzed by McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) for TPH-D both with and without silica gel cleanup by EPA Method 8015, and TPH-G, BTEX, naphthalene, and fuel oxygenates by EPA Method 8260B. The analytical results are tabulated in Table One, and the certified analytical report and chain of custody forms are included in Appendix C.

The only petroleum hydrocarbons detected were TPH-G at a maximum concentration of 6.7 parts per million (ppm), TPH-D with silica gel cleanup at a maximum concentration of 240 ppm, and TPH-D without silica gel cleanup at 390 ppm. No BTEX, naphthalene or oxygenates were detected in any of the soil samples.

The only concentrations to exceed Environmental Screening Level (ESLs) for commercial sites where groundwater is a current or potential source of drinking water were the TPH-D without silica gel cleanup in BH-B at 3.5-feet bgs, and the TPH-D both with and without silica gel cleanup in BH-D at 3.5-feet bgs. The TPH-D without silica gel cleanup in BH-A at 3.5-feet bgs met, but did not exceed the ESL. These ESLs are presented in the "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated December 2013.

None of the soil samples collected from 7.5-feet bgs contained petroleum hydrocarbons above ESLs, indicating the vertical extent of hydrocarbons in soil.

8.0 ANALYZE THE GROUNDWATER SAMPLES

Groundwater samples collected from borings BH-A through BH-D were analyzed by McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) for TPH-D both with and without silica gel cleanup by EPA Method 8015, and TPH-G, BTEX, naphthalene, and fuel oxygenates by EPA Method 8260B. The analytical results are tabulated in Table Two, and the certified analytical report and chain of custody forms are included in Appendix D.

The only groundwater sample to contain TPH-G at concentrations exceeding ESLs was BH-C, which contained 1,000 ppb. Groundwater samples collected from all four borings contained TPH-D at concentrations exceeding ESLs, to a maximum concentration of 8,200 ppb when silica gel cleanup was used and 11,000 ppb when no silica gel cleanup was used. In both BH-A and BH-C, it should be noted that TPH-D concentrations were higher in the samples when silica gel cleanup was used. The laboratory explanation for this was the variable amount of sediment in the samples from VOA to VOA since the samples were collected from borings and not wells. The laboratory also noted that the chromatogram pattern in these samples was not recognizable, which indicates hydrocarbons in the diesel carbon range but possibly not actually from diesel fuel.

The benzene, MTBE and TBA concentrations in the groundwater sample collected from BH-C exceeded the ESL for sites where groundwater is a current or potential source of drinking water; however, none of these compounds exceeded ESLs for sites where groundwater is not a current or potential source of drinking water. The MTBE concentration in the water sample collected from BH-D also exceeded the drinking water ESL, but did not exceed the non-drinking water ESL.

9.0 ANALYZE THE SOIL VAPOR SAMPLES

Each vapor sample was analyzed by McCampbell Analytical for TPH-G, BTEX and naphthalene by EPA Method TO-15, and oxygen, carbon dioxide, methane, and helium by ASTM D1946. The analytical results are tabulated in Table Three, and the certified analytical report and chain of custody form are included in Appendix E. No helium was detected in either sample indicating that the sample train was leak free and that the samples are considered valid.

Benzene was detected in the soil vapor samples at concentrations ranging from 5.5 to 6.1 ug/m3 (micrograms per cubic meter). Toluene was detected at concentrations ranging from 8.2 to 9.7 ug/m3. Total xylenes were detected at concentrations ranging from 10 to 12 ug/m3. No TPH-G, ethyl benzene or naphthalene concentrations were detected. None of the detected concentrations exceeded ESLs. It should be noted, however, that the ESLs are based on a sample collected from 5-feet bgs. In this particular case, the soil vapor samples were collected from 3-feet bgs, since the water table was located at 4-feet bgs. However, the detected concentration are well below ESLs (even residential ESLs) and the concentrations not very different from typical background outdoor air samples within the Bay Area. The samples also contained sufficient oxygen (over 4%) to allow for bioremediation. For these reasons, it does not appear that the hydrocarbons detected in soil vapor samples beneath the site present a threat to indoor air for structures at the site.

The ESLs are presented in "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the RWQCB dated December 2013.

10.0 CONCLUSIONS AND RECOMMENDATIONS

ASE concludes the following:

- No free-floating hydrocarbons or sheen were detected in BH-A, in the location of the former UST, or in any other boring at the site.

- The only petroleum hydrocarbons detected in soil were TPH-G at a maximum concentration of 6.7 ppm, TPH-D with silica gel cleanup at a maximum concentration of 240 ppm, and TPH-D without silica gel cleanup at a maximum concentration of 390 ppm. No BTEX, naphthalene or oxygenates were detected in any of the soil samples. Although the TPH-D was slightly over the ESL, these concentrations are not indicative of concentrations that usually require active remediation.

- The only groundwater sample to contain TPH-G at concentrations exceeding ESLs was BH-C, which contained 1,000 parts per billion (ppb). Groundwater samples collected from all four borings contained TPH-D at concentrations exceeding ESLs, to a maximum concentration of 8,200 ppb when silica gel cleanup was used and 11,000 ppb when no silica gel cleanup was used. In both BH-A and BH-C, it should be noted that TPH-D concentrations were higher in the samples when silica gel cleanup was used. The laboratory explanation for this was the variable amount of sediment in the samples from VOA to VOA since the samples were collected from borings and not wells. The laboratory also noted that the chromatogram pattern in these samples was not recognizable, which indicates hydrocarbons in the diesel carbon range but possibly not actually from diesel fuel. The benzene, MTBE and TBA concentrations in the groundwater sample collected from BH-C exceeded the ESL for sites where groundwater is a current or potential source of drinking water; however, none of these compounds exceeded ESLs for sites where groundwater is not a current or potential source of drinking water. The MTBE concentration in the water sample collected from BH-D also exceeded the drinking water ESL, but did not exceed the non-drinking water ESL. The TPH-D concentrations are generally considered moderate. Concentrations of this magnitude sometimes require additional investigation. However, in this case these hydrocarbons do not appear to be a significant threat to human health or the environment since no significant BTEX, naphthalene or oxygenates were detected in groundwater (since shallow groundwater would not be considered a potential drinking water source at this site).

- Benzene was detected in the soil vapor samples at concentrations ranging from 5.5 to 6.1 ug/m3. Toluene was detected at concentrations ranging from 8.2 to 9.7 ug/m3. Total xylenes were detected at concentrations ranging from 10 to 12 ug/m3. No TPH-G, ethyl benzene or naphthalene concentrations were detected. None of the detected concentrations exceeded ESLs. It should be noted, however, that the ESLs are based on a sample collected from 5-feet bgs. In this particular case, the soil vapor samples were collected from 3-feet bgs, since the water table was located at 4-feet bgs. However, the detected concentration are well below ESLs (even residential ESLs) and the concentrations not very different from typical background outdoor air samples within the Bay Area. The samples also contained sufficient oxygen (over 4%) to allow for bioremediation. For these reason, it does not appear that the hydrocarbons detected in soil vapor samples beneath the site present a threat to indoor air for structures at the site.

ASE recommends the following:

- ASE recommends that this case be considered for closure given current industrial site usage for the following reasons: (a) only relatively low petroleum hydrocarbon concentrations were detected in soil, below concentrations that generally require remediation, (b) none of the groundwater samples contained BTEX, naphthalene or oxygenates at concentrations above non-drinking water ESLs, (c) moderate TPH-D concentrations were detected in groundwater; however, the concentrations appear to not be consistent with diesel fuel based on the chromatogram patterns and the UST was used to store gasoline and not diesel fuel. Further, the TPH-D did not have any of the more

toxic associated compounds in the same groundwater samples, and (d) the soil vapor survey results did not indicate a threat to human health.

11.0 REPORT LIMITATIONS

The opinions and conclusions presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ASE and the party for whom this report was originally prepared. The report is an instrument of professional services and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representations, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ASE relied upon any information prepared by other parties, ASE makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared has the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigation or testing and any findings presented in this report apply solely to conditions existing at the time when ASE's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those locations where data were collected. ASE's ability to interpret investigation results is related to the availability of the data and the extent of the investigational activities. As such, 100% confidence in environmental investigation conclusions cannot be reasonably achieved.

ASE therefore does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

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Aqua Science Engineers appreciates the opportunity provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Robert E. Kitay, P.G.
Senior Geologist

Attachments: Figures 1 through 3
Tables One through Three
Appendices A through E

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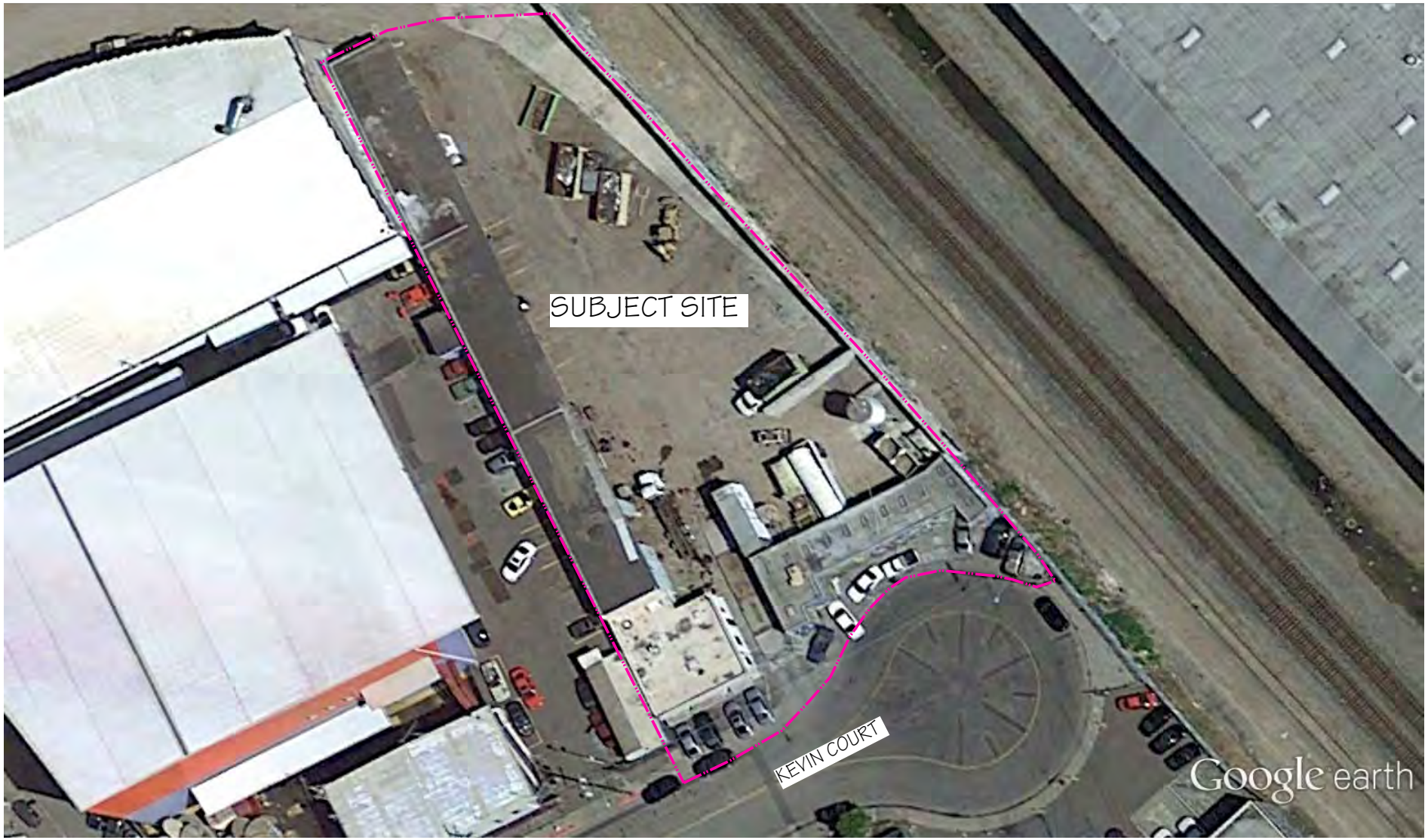
FIGURES



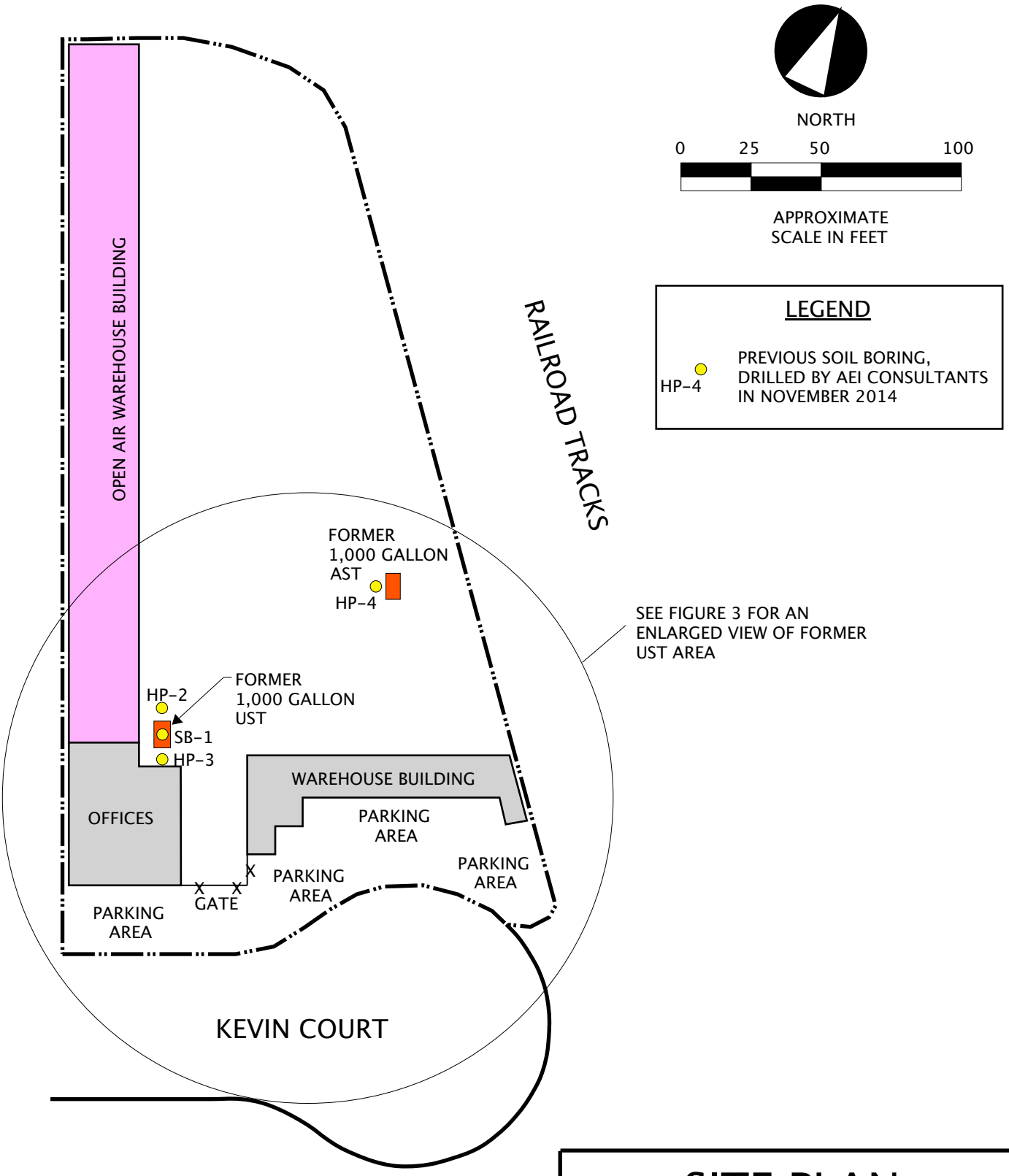
NORTH

NOT TO SCALE

SITE LOCATION MAP

Elliott Property
745 Kevin Court
Oakland, California

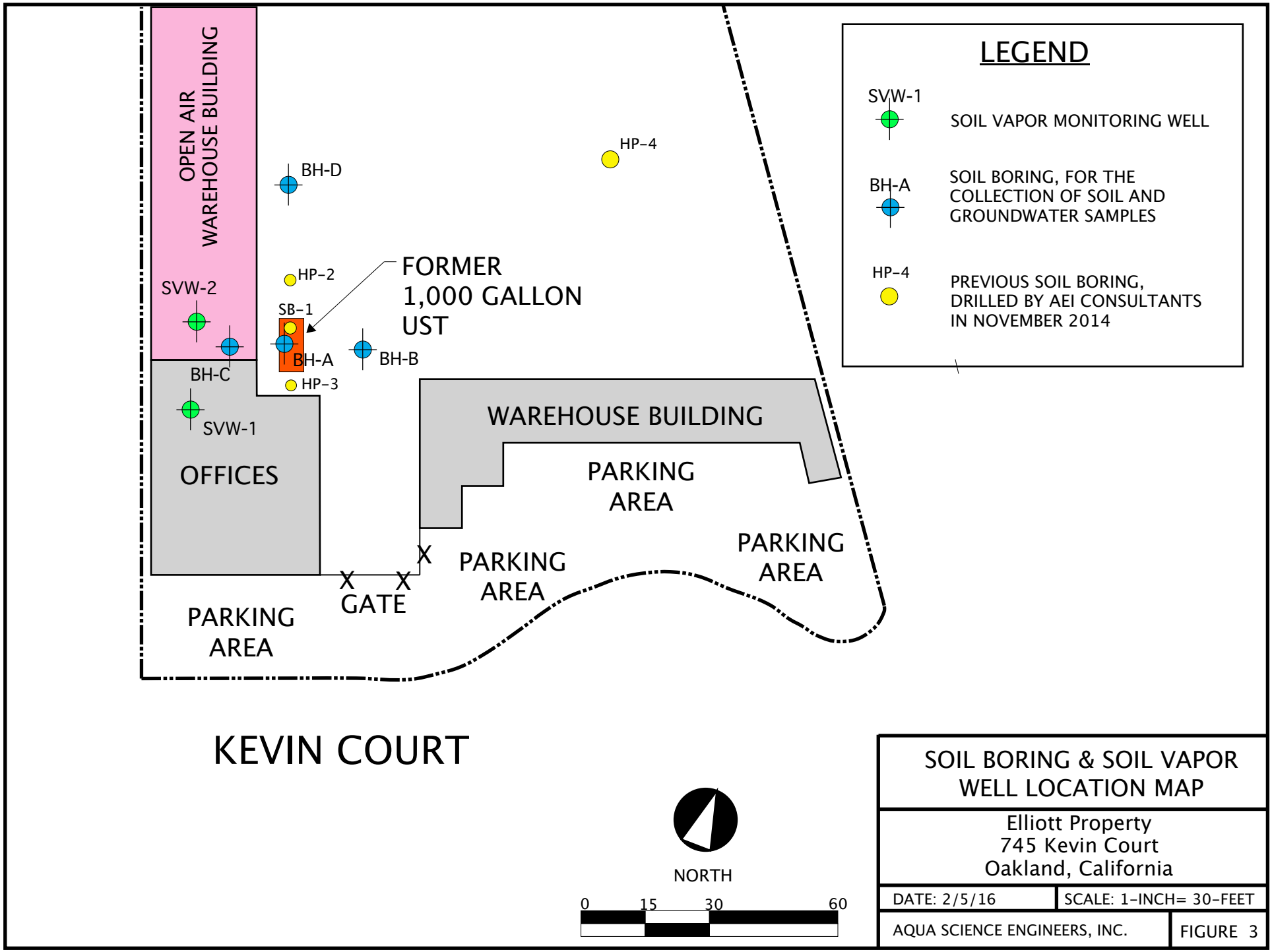
Aqua Science Engineers	Figure 1



SITE PLAN

Elliott Property
745 Kevin Court
Oakland, California

DATE: 1/4/16	SCALE: 1-INCH= 50-FEET
AQUA SCIENCE ENGINEERS, INC.	Figure 2



SOIL BORING & SOIL VAPOR WELL LOCATION MAP

Elliott Property
745 Kevin Court
Oakland, California

DATE: 2/5/16	SCALE: 1-INCH= 30-FEET
AQUA SCIENCE ENGINEERS, INC.	FIGURE 3

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TABLES

TABLE ONE

Summary of Analysis of SOIL Samples

745 Kevin Court, Oakland, California

All results are in **parts per million (ppm)**

Boring Location	Sample Depth (ft)	TPH Gasoline	TPH Diesel (w/SGCU)	TPH Diesel (wo/SGCU)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Naphthalene	MTBE	TBA	Other Oxygenates
BH-A	3.5	< 0.25	83	110	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
	7.5	5.0	< 1.0	1.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
BH-B	3.5	6.7	100	120	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
	7.5	< 0.25	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
BH-C	3.5	1.6	2.5	5.7	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
	7.5	1.6	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
BH-D	3.5	< 0.25	240	390	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
	7.5	< 0.25	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.0050
ESL		500	110	110	0.044	2.9	3.3	2.3	1.2	0.023	0.075	Varies

Notes:

TPH = Total petroleum hydrocarbons

SGCU = Silica Gel Cleanup

MTBE - Methyl-t-butyl ether

TBA = tert-butyl ether

ESL = Environmental Screening Level for soil at commercial sites where groundwater is a current or potential source of drinking water as established by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2013.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Concentrations exceeding ESLs are boxed.

TABLE TWO

Summary of Analysis of GROUNDWATER Samples

745 Kevin Court, Oakland, California

All results are in **parts per billion (ppb)**

Boring Location	TPH Gasoline	TPH Diesel (w/SGCU)	TPH Diesel (wo/SGCU)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Naphthalene	MTBE	TBA	Other Oxygenates
BH-A	**76**	**8,200**	**5,500**	**0.99**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 2.0	< 0.50
BH-B	< 50	**800**	**3,600**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.83**	**2.8**	< 0.50
BH-C	**1,000**	**1,600**	**1,200**	**16**	**1.3**	**1.1**	**2.2**	< 0.50	**9.4**	**28**	**0.69 DIPE**
BH-D	< 50	**7,000**	**11,000**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.6**	< 2.0	< 0.50
ESL (DW)	100	100	100	1.0	40	30	20	6.1	5.0	12	Varies
ESL (NDW)	500	640	640	27	130	43	100	24	1,800	18,000	Varies

Notes:

TPH = Total petroleum hydrocarbons

SGCU = Silica Gel Cleanup

MTBE - Methyl-t-butyl ether

TBA = tert-butyl ether

DW = ESL for sites where groundwater is a current or potential source of drinking water

NDW = ESL for sites where groundwater is not a current or potential source of drinking water

ESL = Environmental Screening Level for soil at commercial sites where groundwater is a current or potential source of drinking water as established by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2013.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Concentrations exceeding ESLs are boxed.

TABLE THREE
Summary of Analytical Results of Soil Vapor Samples
Petroleum Hydrocarbons, Atmospheric Gases and Helium
Elliott Property, 745 Kevin Court, Oakland, California

Sample Location	Sample Depth (ft)	Date Sampled	TPH Gasoline (ug/m3)	Benzene (ug/m3)	Toluene (ug/m3)	Ethyl Benzene (ug/m3)	Total Xylenes (ug/m3)	Naphthalene (ug/m3)	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)
SVW-1	3	1/28/16	< 720	**5.5**	**9.7**	< 2.2	**12**	< 5.3	**14**	**0.22**	**0.00039**	< 0.050
SVW-2	3	1/28/16	< 720	**6.1**	**8.2**	< 2.2	**10**	< 5.3	**7.2**	**4.2**	< 0.00020	< 0.050
ESL (Residential)			300,000	42	16,000	490	52,000	36	NE	NE	NE	NE
ESL (Commercial)			2,500,000	420	1,300,000	4,900	440,000	360	NE	NE	NE	NE
Low-Risk Soil Gas Criteria (With bioattenuation zonel)												
Residential			NE	85,000	NE	280,000	NE	93,000	NE	NE	NE	NE
Commercial			NE	280,000	NE	3,600,000	NE	310,000	NE	NE	NE	NE

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations in **BOLD**

ESL = Environmental Screening Levels presented in the "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated December 2013.

Low-Risk Soil Gas Criteria is from Appendix 4, Scenario 4 - Direct Measurement of Soil Gas Concentrations with Bioattenuation zone from the State Water Resources Control Board, Low-Threat Underground Storage Tank Case Closure Policy, 2012.

NE = Not established

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853

APPENDIX A

Permits

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: 01/22/2016 By jamesy

Permit Numbers: W2016-0031 to W2016-0032
Permits Valid from 01/28/2016 to 01/28/2016

Application Id: 1453424596272
City of Project Site: Oakland
Site Location: 745 Kevin Court
Project Start Date: 01/28/2016
Completion Date: 01/28/2016
Assigned Inspector: Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com

Applicant: Aqua Science Engineers - Robert Kitay
55 Oak Court, Suite 220, Danville, CA 94526
Phone: 925-413-8604

Property Owner: Mark Elliott
408 Silver Chief Way, Danville, CA 94526
Phone: --

Client: ** same as Property Owner **

Total Due: $530.00
Receipt Number: WR2016-0022 **Total Amount Paid:** $530.00
Payer Name : Aqua Science Engineers Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 4 Boreholes
Driller: Cascade Drilling - Lic #: 938110 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2016-0031	01/22/2016	04/27/2016	4	2.00 in.	16.00 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.

5. 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.

6. 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.

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-Vapor monitoring well-Vapor monitoring well - 2 Wells
Driller: Cascade Drilling - Lic #: 938110 - Method: DP **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2016-0032	01/22/2016	04/27/2016	VW-1	2.00 in.	0.25 in.	3.00 ft	5.00 ft
W2016-0032	01/22/2016	04/27/2016	VW-2	2.00 in.	0.25 in.	3.00 ft	5.00 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well 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 60 days, including permit number and site map.

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. 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.

5. 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 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.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

8. 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.

9. 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.

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.

12. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

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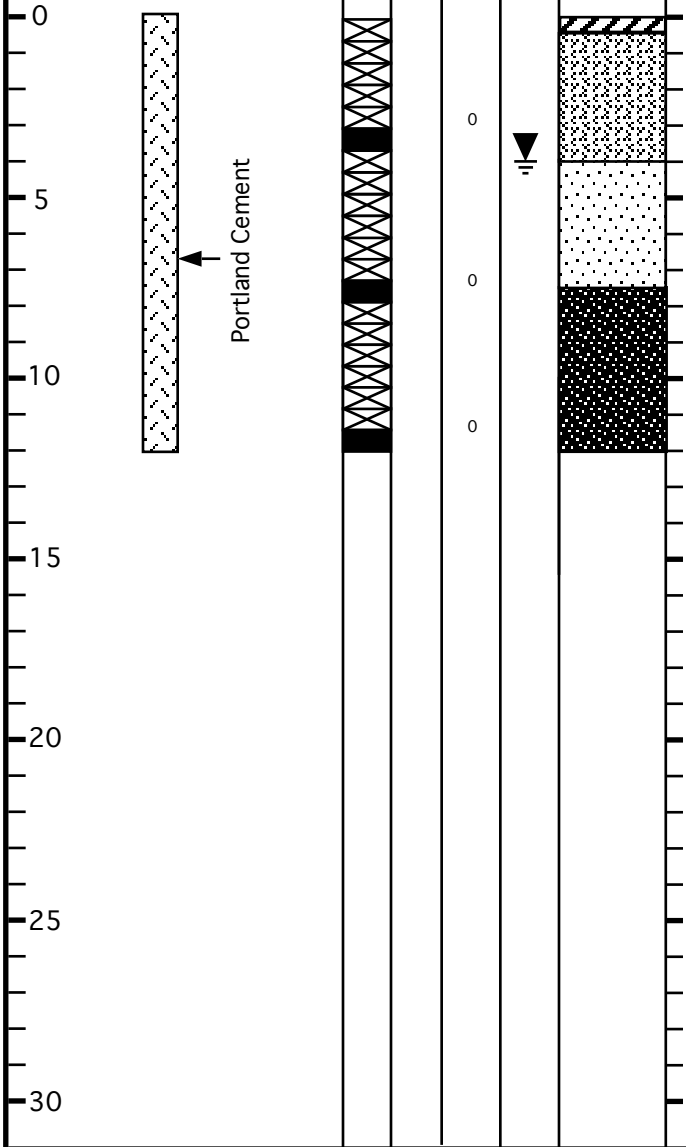
APPENDIX B

Boring Logs

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-A
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: Cascade Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: January 28, 2016	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 4'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 12'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

0 Asphalt

Silty SAND (SM); black; loose; damp; 80% fine to medium sand; 15% silt; 5% gravel to 1" diameter; high estimated K; no odor

5 SAND (SP); black; loose; wet; 100% fine sand; medium estimated K; moderate hydrocarbon odor

Silty CLAY (CH); brown; stiff; 90% clay; 10% silt; high plasticity; very low estimated K; no odor

10

End of boring at 12'

15

20

25

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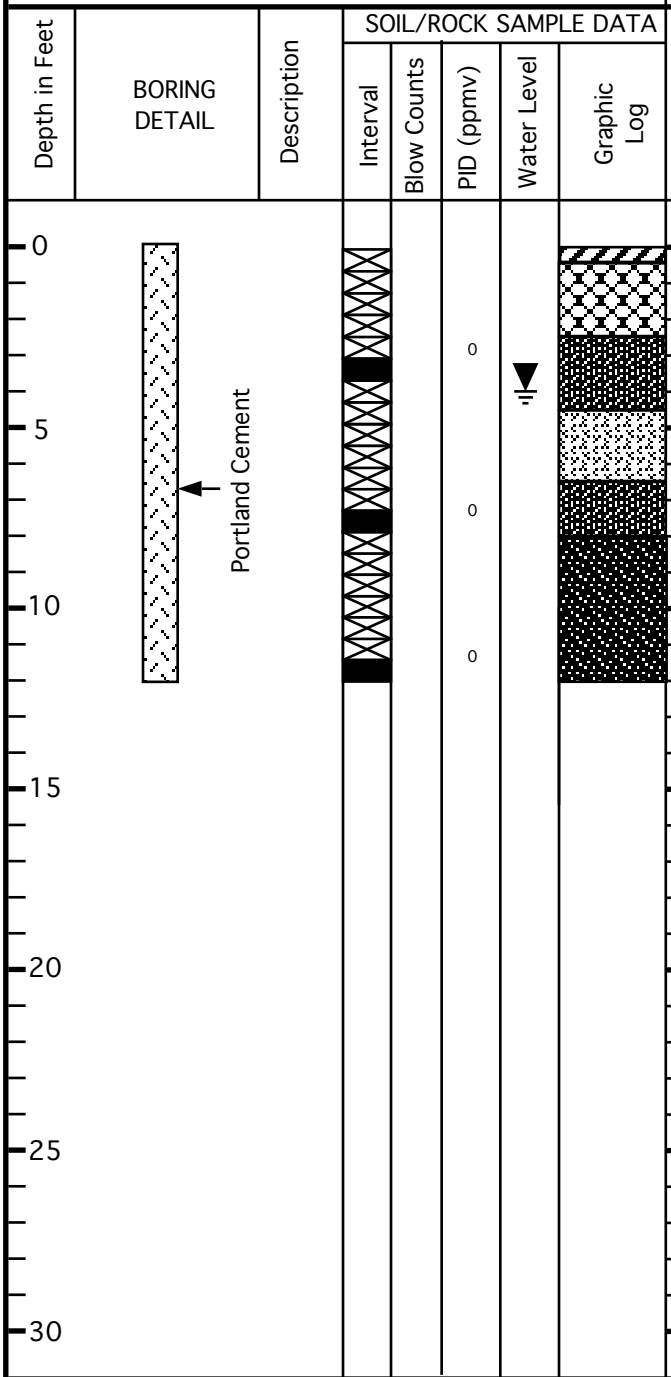
AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-B
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: Cascade Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: January 28, 2016	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 4'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 12'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

Asphalt

Gravely SAND (SW); black and yellow brown; loose; damp; 65% fine to course sand; 25% gravel to 1" diameter; 10% silt; high estimated K; no odor

Clayey SILT(MH); black; stiff; moist; 70% silt; 30% clay; high plasticity; very low est. K; slight hydrocarbon odor

Silty SAND (SM); black; medium dense; wet; 60% fine to medium sand; 40% silt; medium estimated K; slight hydrocarbon odor

Clayey SILT (MH); black; soft; wet; 90% silt; 10% clay; high plasticity; low estimated K; slight hydrocarbon odor

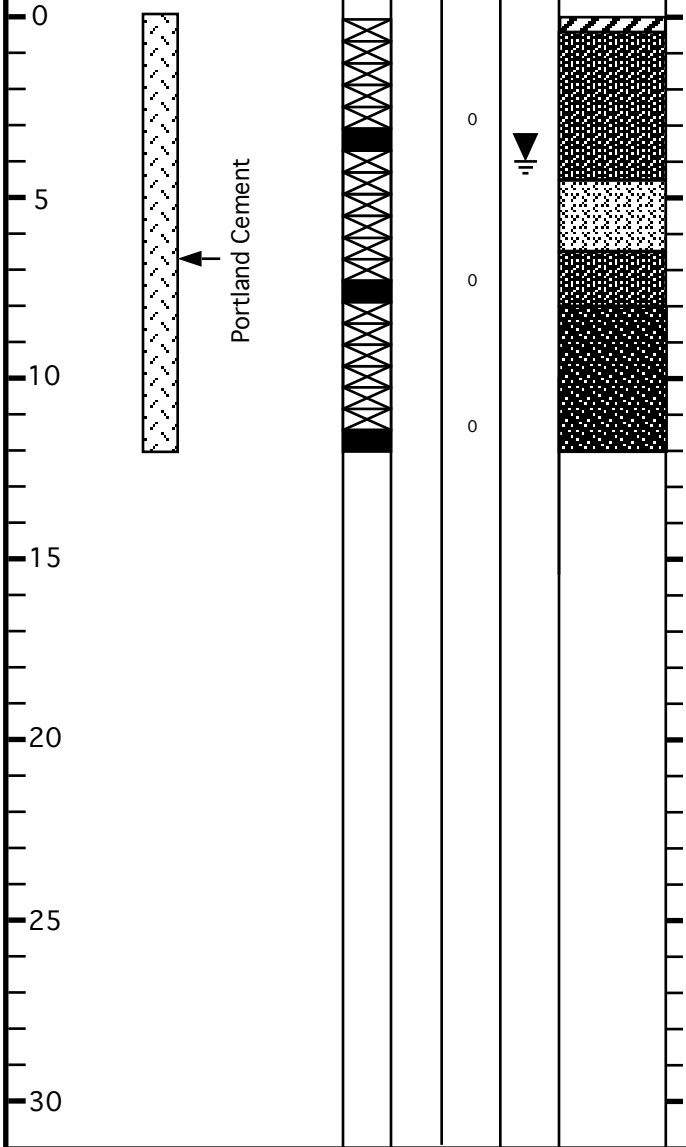
Silty CLAY (CH); brown; stiff; 90% clay; 10% silt; high plasticity; very low estimated K; no odor

End of boring at 12'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-C
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: Cascade Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: January 28, 2016	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 4'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 12'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

0 — Concrete (4")

Clayey SILT(MH); black; stiff; moist; 70% silt; 30% clay; high plasticity; very low est. K; slight hydrocarbon odor

5 — Silty SAND (SM); black; medium dense; wet; 60% fine to medium sand; 40% silt; medium estimated K; slight hydrocarbon odor

Clayey SILT (MH); black; soft; wet; 90% silt; 10% clay; high plasticity; low estimated K; slight hydrocarbon odor

10 — Silty CLAY (CH); brown; stiff; 90% clay; 10% silt; high plasticity; very low estimated K; no odor

End of boring at 12'

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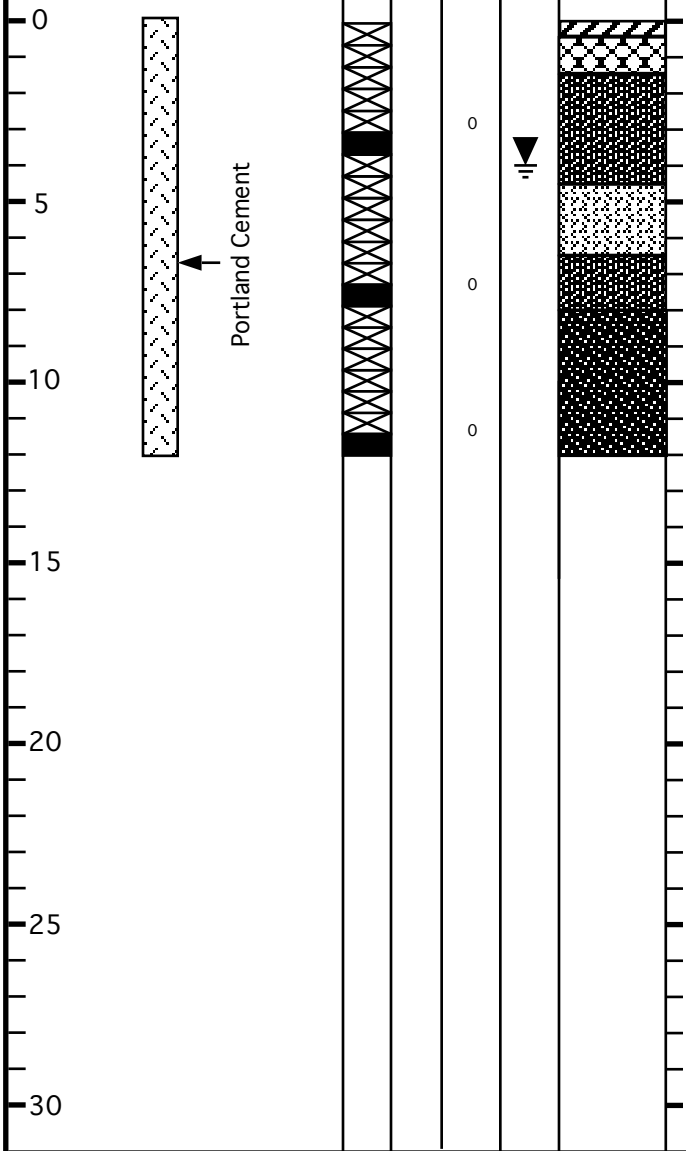
AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-D
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: Cascade Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: January 28, 2016	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 4'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 12'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

Asphalt

Gravely SAND (SW); yellow brown; loose; damp; 70% fine to course sand; 20% gravel to 1" diameter; 10% silt; high estimated K; no odor

Clayey SILT(MH); black; stiff; moist; 70% silt; 30% clay; high plasticity; very low est. K; no odor

Silty SAND (SM); black; medium dense; wet; 60% fine to medium sand; 40% silt; medium estimated K; no odor

Clayey SILT (MH); black; soft; wet; 90% silt; 10% clay; high plasticity; low estimated K; no odor

Silty CLAY (CH); brown; stiff; 90% clay; 10% silt; high plasticity; very low estimated K; no odor

End of boring at 12'

AQUA SCIENCE ENGINEERS, INC.

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
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APPENDIX C

Certified Analytical Report
and
Chain of Custody Documentation
For Soil Samples

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601B84

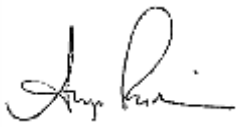
Report Created for: Aqua Science Engineers, Inc.

55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Robert Kitay
Project P.O.:
Project Name: 4641; Elliott Property

Project Received: 01/29/2016

Analytical Report reviewed & approved for release on 02/05/2016 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 4641; Elliott Property
WorkOrder: 1601B84

Glossary Abbreviation

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
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
e11/e8	stoddard solvent/mineral spirit (?); and/or kerosene/kerosene range/jet fuel range

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/kg

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 3.5'	**1601B84-001A**	**Soil**	**01/28/2016 13:56**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	02/04/2016 10:53
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		02/04/2016 10:53
Benzene-d6	83	60-140		02/04/2016 10:53

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 7.5'	**1601B84-002A**	**Soil**	**01/28/2016 14:00**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**5.0**	0.25	1	02/04/2016 11:32
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		02/04/2016 11:32
Benzene-d6	88	60-140		02/04/2016 11:32

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 3.5'	**1601B84-004A**	**Soil**	**01/28/2016 09:00**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**6.7**	0.25	1	02/04/2016 12:49
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	110	70-130		02/04/2016 12:49
Benzene-d6	92	60-140		02/04/2016 12:49

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/kg

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 7.5'	**1601B84-005A**	**Soil**	**01/28/2016 09:05**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	02/04/2016 14:43
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	114	70-130		02/04/2016 14:43
Benzene-d6	103	60-140		02/04/2016 14:43

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 3.5'	**1601B84-007A**	**Soil**	**01/28/2016 13:30**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1.6**	0.25	1	02/04/2016 16:38
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		02/04/2016 16:38
Benzene-d6	105	60-140		02/04/2016 16:38

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 7.5'	**1601B84-008A**	**Soil**	**01/28/2016 13:36**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1.6**	0.25	1	02/05/2016 11:43
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		02/05/2016 11:43
Benzene-d6	90	60-140		02/05/2016 11:43

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/kg

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 3.5'	1601B84-010A	Soil	01/28/2016 15:05	GC18	116033

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	02/05/2016 11:05
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	70-130		02/05/2016 11:05
Benzene-d6	85	60-140		02/05/2016 11:05

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 7.5'	1601B84-011A	Soil	01/28/2016 15:10	GC18	116033

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	02/05/2016 12:21
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	112	70-130		02/05/2016 12:21
Benzene-d6	94	60-140		02/05/2016 12:21

Analyst(s): KF

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 3.5'	**1601B84-001A**	**Soil**	**01/28/2016 13:56**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/04/2016 10:53
Benzene	ND	0.0050	1	02/04/2016 10:53
t-Butyl alcohol (TBA)	ND	0.050	1	02/04/2016 10:53
Diisopropyl ether (DIPE)	ND	0.0050	1	02/04/2016 10:53
Ethylbenzene	ND	0.0050	1	02/04/2016 10:53
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/04/2016 10:53
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/04/2016 10:53
Naphthalene	ND	0.0050	1	02/04/2016 10:53
Toluene	ND	0.0050	1	02/04/2016 10:53
Xylenes, Total	ND	0.0050	1	02/04/2016 10:53
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	119	70-130		02/04/2016 10:53
Toluene-d8	117	70-130		02/04/2016 10:53
4-BFB	81	70-130		02/04/2016 10:53
Benzene-d6	89	60-140		02/04/2016 10:53
Ethylbenzene-d10	73	60-140		02/04/2016 10:53
1,2-DCB-d4	78	60-140		02/04/2016 10:53

Analyst(s): KF

(Cont.)

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 7.5'	**1601B84-002A**	**Soil**	**01/28/2016 14:00**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/04/2016 11:32
Benzene	ND	0.0050	1	02/04/2016 11:32
t-Butyl alcohol (TBA)	ND	0.050	1	02/04/2016 11:32
Diisopropyl ether (DIPE)	ND	0.0050	1	02/04/2016 11:32
Ethylbenzene	ND	0.0050	1	02/04/2016 11:32
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/04/2016 11:32
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/04/2016 11:32
Naphthalene	ND	0.0050	1	02/04/2016 11:32
Toluene	ND	0.0050	1	02/04/2016 11:32
Xylenes, Total	ND	0.0050	1	02/04/2016 11:32
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	119	70-130		02/04/2016 11:32
Toluene-d8	109	70-130		02/04/2016 11:32
4-BFB	85	70-130		02/04/2016 11:32
Benzene-d6	94	60-140		02/04/2016 11:32
Ethylbenzene-d10	93	60-140		02/04/2016 11:32
1,2-DCB-d4	89	60-140		02/04/2016 11:32

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 3.5'	**1601B84-004A**	**Soil**	**01/28/2016 09:00**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/04/2016 12:49
Benzene	ND	0.0050	1	02/04/2016 12:49
t-Butyl alcohol (TBA)	ND	0.050	1	02/04/2016 12:49
Diisopropyl ether (DIPE)	ND	0.0050	1	02/04/2016 12:49
Ethylbenzene	ND	0.0050	1	02/04/2016 12:49
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/04/2016 12:49
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/04/2016 12:49
Naphthalene	ND	0.0050	1	02/04/2016 12:49
Toluene	ND	0.0050	1	02/04/2016 12:49
Xylenes, Total	ND	0.0050	1	02/04/2016 12:49

Surrogates	REC (%)	Limits	
Dibromofluoromethane	117	70-130	02/04/2016 12:49
Toluene-d8	104	70-130	02/04/2016 12:49
4-BFB	76	70-130	02/04/2016 12:49
Benzene-d6	98	60-140	02/04/2016 12:49
Ethylbenzene-d10	95	60-140	02/04/2016 12:49
1,2-DCB-d4	91	60-140	02/04/2016 12:49

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 7.5'	**1601B84-005A**	**Soil**	**01/28/2016 09:05**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/04/2016 14:43
Benzene	ND	0.0050	1	02/04/2016 14:43
t-Butyl alcohol (TBA)	ND	0.050	1	02/04/2016 14:43
Diisopropyl ether (DIPE)	ND	0.0050	1	02/04/2016 14:43
Ethylbenzene	ND	0.0050	1	02/04/2016 14:43
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/04/2016 14:43
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/04/2016 14:43
Naphthalene	ND	0.0050	1	02/04/2016 14:43
Toluene	ND	0.0050	1	02/04/2016 14:43
Xylenes, Total	ND	0.0050	1	02/04/2016 14:43

Surrogates	REC (%)	Limits	
Dibromofluoromethane	122	70-130	02/04/2016 14:43
Toluene-d8	113	70-130	02/04/2016 14:43
4-BFB	87	70-130	02/04/2016 14:43
Benzene-d6	110	60-140	02/04/2016 14:43
Ethylbenzene-d10	105	60-140	02/04/2016 14:43
1,2-DCB-d4	99	60-140	02/04/2016 14:43

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 3.5'	1601B84-007A	Soil	01/28/2016 13:30	GC18	116033

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/04/2016 16:38
Benzene	ND	0.0050	1	02/04/2016 16:38
t-Butyl alcohol (TBA)	ND	0.050	1	02/04/2016 16:38
Diisopropyl ether (DIPE)	ND	0.0050	1	02/04/2016 16:38
Ethylbenzene	ND	0.0050	1	02/04/2016 16:38
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/04/2016 16:38
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/04/2016 16:38
Naphthalene	ND	0.0050	1	02/04/2016 16:38
Toluene	ND	0.0050	1	02/04/2016 16:38
Xylenes, Total	ND	0.0050	1	02/04/2016 16:38

Surrogates	REC (%)	Limits	
Dibromofluoromethane	119	70-130	02/04/2016 16:38
Toluene-d8	114	70-130	02/04/2016 16:38
4-BFB	83	70-130	02/04/2016 16:38
Benzene-d6	112	60-140	02/04/2016 16:38
Ethylbenzene-d10	109	60-140	02/04/2016 16:38
1,2-DCB-d4	104	60-140	02/04/2016 16:38

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 7.5'	**1601B84-008A**	**Soil**	**01/28/2016 13:36**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/05/2016 11:43
Benzene	ND	0.0050	1	02/05/2016 11:43
t-Butyl alcohol (TBA)	ND	0.050	1	02/05/2016 11:43
Diisopropyl ether (DIPE)	ND	0.0050	1	02/05/2016 11:43
Ethylbenzene	ND	0.0050	1	02/05/2016 11:43
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/05/2016 11:43
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/05/2016 11:43
Naphthalene	ND	0.0050	1	02/05/2016 11:43
Toluene	ND	0.0050	1	02/05/2016 11:43
Xylenes, Total	ND	0.0050	1	02/05/2016 11:43
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	119	70-130		02/05/2016 11:43
Toluene-d8	114	70-130		02/05/2016 11:43
4-BFB	88	70-130		02/05/2016 11:43
Benzene-d6	97	60-140		02/05/2016 11:43
Ethylbenzene-d10	97	60-140		02/05/2016 11:43
1,2-DCB-d4	89	60-140		02/05/2016 11:43

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 3.5'	**1601B84-010A**	**Soil**	**01/28/2016 15:05**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/04/2016 17:17
Benzene	ND	0.0050	1	02/04/2016 17:17
t-Butyl alcohol (TBA)	ND	0.050	1	02/04/2016 17:17
Diisopropyl ether (DIPE)	ND	0.0050	1	02/04/2016 17:17
Ethylbenzene	ND	0.0050	1	02/04/2016 17:17
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/04/2016 17:17
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/04/2016 17:17
Naphthalene	ND	0.0050	1	02/04/2016 17:17
Toluene	ND	0.0050	1	02/04/2016 17:17
Xylenes, Total	ND	0.0050	1	02/04/2016 17:17

Surrogates	REC (%)	Limits	
Dibromofluoromethane	119	70-130	02/04/2016 17:17
Toluene-d8	117	70-130	02/04/2016 17:17
4-BFB	87	70-130	02/04/2016 17:17
Benzene-d6	106	60-140	02/04/2016 17:17
Ethylbenzene-d10	95	60-140	02/04/2016 17:17
1,2-DCB-d4	94	60-140	02/04/2016 17:17

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	1/29/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 7.5'	**1601B84-011A**	**Soil**	**01/28/2016 15:10**	**GC18**	**116033**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.0050	1	02/05/2016 12:21
Benzene	ND	0.0050	1	02/05/2016 12:21
t-Butyl alcohol (TBA)	ND	0.050	1	02/05/2016 12:21
Diisopropyl ether (DIPE)	ND	0.0050	1	02/05/2016 12:21
Ethylbenzene	ND	0.0050	1	02/05/2016 12:21
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	02/05/2016 12:21
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	02/05/2016 12:21
Naphthalene	ND	0.0050	1	02/05/2016 12:21
Toluene	ND	0.0050	1	02/05/2016 12:21
Xylenes, Total	ND	0.0050	1	02/05/2016 12:21

Surrogates	REC (%)	Limits	
Dibromofluoromethane	120	70-130	02/05/2016 12:21
Toluene-d8	119	70-130	02/05/2016 12:21
4-BFB	83	70-130	02/05/2016 12:21
Benzene-d6	101	60-140	02/05/2016 12:21
Ethylbenzene-d10	95	60-140	02/05/2016 12:21
1,2-DCB-d4	92	60-140	02/05/2016 12:21

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW3550B/3630C
Date Prepared:	1/29/16	**Analytical Method:**	SW8015B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 3.5'	**1601B84-001A**	**Soil**	**01/28/2016 13:56**	**GC6A**	**116036**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**83**	50	50	02/04/2016 12:35

Surrogates	REC (%)	Limits	
C9	102	70-130	02/04/2016 12:35

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 7.5'	**1601B84-002A**	**Soil**	**01/28/2016 14:00**	**GC39B**	**116036**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/01/2016 20:46

Surrogates	REC (%)	Limits	
C9	102	70-130	02/01/2016 20:46

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 3.5'	**1601B84-004A**	**Soil**	**01/28/2016 09:00**	**GC2A**	**116036**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**100**	20	20	02/03/2016 16:25

Surrogates	REC (%)	Limits	
C9	98	70-130	02/03/2016 16:25

Analyst(s): TK Analytical Comments: e7,e11/e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 7.5'	**1601B84-005A**	**Soil**	**01/28/2016 09:05**	**GC39B**	**116036**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/01/2016 21:25

Surrogates	REC (%)	Limits	
C9	102	70-130	02/01/2016 21:25

Analyst(s): TK

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW3550B/3630C
Date Prepared:	1/29/16	**Analytical Method:**	SW8015B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 3.5'	1601B84-007A	Soil	01/28/2016 13:30	GC2B	116036

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.5**	2.0	2	02/02/2016 18:03
Surrogates	**REC (%)**	**Limits**		
C9	91	70-130		02/02/2016 18:03

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 7.5'	1601B84-008A	Soil	01/28/2016 13:36	GC39B	116036

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/01/2016 20:08
Surrogates	**REC (%)**	**Limits**		
C9	101	70-130		02/01/2016 20:08

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 3.5'	1601B84-010A	Soil	01/28/2016 15:05	GC6B	116036

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**240**	100	100	02/04/2016 01:40
Surrogates	**REC (%)**	**Limits**		
C9	92	70-130		02/04/2016 01:40

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 7.5'	1601B84-011A	Soil	01/28/2016 15:10	GC39B	116036

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/01/2016 19:29
Surrogates	**REC (%)**	**Limits**		
C9	102	70-130		02/01/2016 19:29

Analyst(s): TK

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW3550B
Date Prepared:	1/29/16	**Analytical Method:**	SW8015B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 3.5'	**1601B84-001A**	**Soil**	**01/28/2016 13:56**	**GC6A**	**116024**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**110**	100	100	02/04/2016 06:24
Surrogates	**REC (%)**	**Limits**		
C9	87	70-130		02/04/2016 06:24

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A 7.5'	**1601B84-002A**	**Soil**	**01/28/2016 14:00**	**GC39B**	**116024**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.1**	1.0	1	02/01/2016 23:22
Surrogates	**REC (%)**	**Limits**		
C9	103	70-130		02/01/2016 23:22

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 3.5'	**1601B84-004A**	**Soil**	**01/28/2016 09:00**	**GC2A**	**116024**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**120**	20	20	02/03/2016 18:58
Surrogates	**REC (%)**	**Limits**		
C9	99	70-130		02/03/2016 18:58

Analyst(s): TK Analytical Comments: e7,e11/e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B 7.5'	**1601B84-005A**	**Soil**	**01/28/2016 09:05**	**GC39B**	**116024**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/01/2016 22:04
Surrogates	**REC (%)**	**Limits**		
C9	101	70-130		02/01/2016 22:04

Analyst(s): TK

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Received:	1/29/16 20:18	**Extraction Method:**	SW3550B
Date Prepared:	1/29/16	**Analytical Method:**	SW8015B
Project:	4641; Elliott Property	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 3.5'	1601B84-007A	Soil	01/28/2016 13:30	GC2B	116024

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**5.7**	5.0	5	02/02/2016 19:19
Surrogates	**REC (%)**	**Limits**		
C9	94	70-130		02/02/2016 19:19

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C 7.5'	1601B84-008A	Soil	01/28/2016 13:36	GC39B	116024

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/01/2016 22:43
Surrogates	**REC (%)**	**Limits**		
C9	101	70-130		02/01/2016 22:43

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 3.5'	1601B84-010A	Soil	01/28/2016 15:05	GC6B	116024

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**390**	100	100	02/04/2016 05:13
Surrogates	**REC (%)**	**Limits**		
C9	105	70-130		02/04/2016 05:13

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D 7.5'	1601B84-011A	Soil	01/28/2016 15:10	GC39B	116024

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/02/2016 00:01
Surrogates	**REC (%)**	**Limits**		
C9	102	70-130		02/02/2016 00:01

Analyst(s): TK

CLIENT: Aqua Science Engineers, Inc.
Work Order: 1601B84
Project: 4641; Elliott Property

ANALYTICAL QC SUMMARY REPORT

BatchID: 116033

SampleID **MB-116033**	TestCode: **8260gas_s**	Units: **mg/kg**	Prep Date: **1/29/2016**
Batch ID: **116033**	TestNo: **SW8260B**	Run ID: **GC16_160208C**	Analysis Date: **1/30/2016**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
TPH(g)	ND	0.25				-				
Surrogate Recovery										
Dibromofluoromethane	0.138		0.125		111	70 - 130				
Benzene-d6	0.124		0.1		124	60 - 140				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

CLIENT: Aqua Science Engineers, Inc.
Work Order: 1601B84
Project: 4641; Elliott Property

ANALYTICAL QC SUMMARY REPORT

BatchID: 116033

SampleID **LCS-116033**	TestCode: **8260gas_s**			Units: **mg/kg**			Prep Date: **1/29/2016**			
Batch ID: **116033**	TestNo: **SW8260B**			Run ID: **GC16_160208C**			Analysis Date: **1/30/2016**			
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	3.30	0.25	3.2	0	103	74 - 142				
Surrogate Recovery										
Dibromofluoromethane	0.137		0.125		110	70 - 130				
Benzene-d6	0.135		0.1		135	60 - 140				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Prepared:	1/29/16	**BatchID:**	116033
Date Analyzed:	1/30/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116033 1601B83-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0433	0.0050	0.050	-	87	53-116
Benzene	ND	0.0526	0.0050	0.050	-	105	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.182	0.050	0.20	-	91	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0510	0.0050	0.050	-	102	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0485	0.0040	0.050	-	97	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0478	0.0040	0.050	-	96	58-135
1,1-Dichloroethene	ND	0.0443	0.0050	0.050	-	89	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Prepared:	1/29/16	**BatchID:**	116033
Date Analyzed:	1/30/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116033 1601B83-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0520	0.0050	0.050	-	104	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0479	0.0050	0.050	-	96	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0450	0.0050	0.050	-	90	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0566	0.0050	0.050	-	113	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0558	0.0050	0.050	-	112	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Prepared:	1/29/16	**BatchID:**	116033
Date Analyzed:	1/30/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116033 1601B83-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.110	0.109		0.12	88	87	70-130
Toluene-d8	0.118	0.117		0.12	95	94	70-130
4-BFB	0.0119	0.0124		0.012	96	99	70-130
Benzene-d6	0.102	0.110		0.10	102	110	60-140
Ethylbenzene-d10	0.109	0.121		0.10	109	121	60-140
1,2-DCB-d4	0.0769	0.0900		0.10	77	90	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0449	0.0460	0.050	ND	90	92	56-94	2.25	20
Benzene	0.0418	0.0433	0.050	ND	84	87	60-106	3.61	20
t-Butyl alcohol (TBA)	0.165	0.174	0.20	ND	83	87	56-140	5.04	20
Chlorobenzene	0.0425	0.0430	0.050	ND	85	86	61-108	1.10	20
1,2-Dibromoethane (EDB)	0.0435	0.0431	0.050	ND	87	86	54-119	1.01	20
1,2-Dichloroethane (1,2-DCA)	0.0447	0.0457	0.050	ND	89	91	48-115	2.18	20
1,1-Dichloroethene	0.0276	0.0312	0.050	ND	55	62	46-111	12.3	20
Diisopropyl ether (DIPE)	0.0440	0.0458	0.050	ND	88	92	53-111	4.02	20
Ethyl tert-butyl ether (ETBE)	0.0440	0.0453	0.050	ND	88	91	61-104	2.89	20
Methyl-t-butyl ether (MTBE)	0.0414	0.0426	0.050	ND	83	85	58-107	2.75	20
Toluene	0.0387	0.0393	0.050	ND	77	79	64-114	1.45	20
Trichloroethene	0.0513	0.0512	0.050	ND	103	102	60-116	0.202	20
Surrogate Recovery									
Dibromofluoromethane	0.150	0.149	0.12		120	120	70-130	0	20
Toluene-d8	0.131	0.130	0.12		105	104	70-130	1.08	20
4-BFB	0.0120	0.0124	0.012		96	99	88-121	2.72	20
Benzene-d6	0.0937	0.0984	0.10		94	98	60-140	4.90	20
Ethylbenzene-d10	0.0916	0.0942	0.10		92	94	60-140	2.73	20
1,2-DCB-d4	0.0920	0.0922	0.10		92	92	60-140	0	20

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Prepared:	1/29/16	**BatchID:**	116024
Date Analyzed:	1/30/16	**Extraction Method:**	SW3550B
Instrument:	GC11B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116024 1601B69-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	43.3	1.0	40	-	108	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.3	26.5		25	105	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		62	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B84
Date Prepared:	1/29/16	**BatchID:**	116036
Date Analyzed:	2/1/16	**Extraction Method:**	SW3550B/3630C
Instrument:	GC2A, GC39A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116036 1601B84-001AMS/MSD

QC Report for SW8015B w/SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	47.6	1.0	40	-	119	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.2	23.4		25	97	94	62-139

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		83	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601B84 **ClientCode: ASED**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Robert Kitay
Aqua Science Engineers, Inc.
55 Oak Court Suite 220
Danville, CA 94526
(925) 820-9391 FAX: (925) 837-4853

Email: rkitay@aquascienceengineers.com
cc/3rd Party:
PO:
ProjectNo: 4641; Elliott Property

Bill to:
Diane Schiell
Aqua Science Engineers, Inc.
217 Wild Flower Drive
Roseville, CA 95678
deezthng22@yahoo.com

Requested TAT: **5 days;**

Date Received: **01/29/2016**
Date Logged: **01/29/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601B84-001	BH-A 3.5'	Soil	1/28/2016 13:56	☐	A	A	A	A								
1601B84-002	BH-A 7.5'	Soil	1/28/2016 14:00	☐	A	A	A	A								
1601B84-003	BH-A 11.5'	Soil	1/28/2016 14:05	☑	A	A	A	A								
1601B84-004	BH-B 3.5'	Soil	1/28/2016 9:00	☐	A	A	A	A								
1601B84-005	BH-B 7.5'	Soil	1/28/2016 9:05	☐	A	A	A	A								
1601B84-006	BH-B 11.5'	Soil	1/28/2016 9:10	☑	A	A	A	A								
1601B84-007	BH-C 3.5'	Soil	1/28/2016 13:30	☐	A	A	A	A								
1601B84-008	BH-C 7.5'	Soil	1/28/2016 13:36	☐	A	A	A	A								
1601B84-009	BH-C 11.5'	Soil	1/28/2016 13:40	☑	A	A	A	A								
1601B84-010	BH-D 3.5'	Soil	1/28/2016 15:05	☐	A	A	A	A								
1601B84-011	BH-D 7.5'	Soil	1/28/2016 15:10	☐	A	A	A	A								
1601B84-012	BH-D 11.5'	Soil	1/28/2016 15:15	☑	A	A	A	A								

Test Legend:

1	8260GAS_S	2	8260VOC_S	3	TPH(D)_S	4	TPH(D)WSG_S
5		6		7		8	
9		10		11		12	

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup.

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC. **QC Level:** LEVEL 2 **Work Order:** 1601B84
Project: 4641; Elliott Property **Client Contact:** Robert Kitay **Date Logged:** 1/29/2016
Comments: **Contact's Email:** rkitay@aquascienceengineers.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601B84-001A	BH-A 3.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 13:56	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1601B84-002A	BH-A 7.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 14:00	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1601B84-003A	BH-A 11.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 14:05	5 days		☑	
			SW8015B (Diesel)			☐		5 days		☑	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☑	
1601B84-004A	BH-B 3.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 9:00	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1601B84-005A	BH-B 7.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 9:05	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC. **QC Level:** LEVEL 2 **Work Order:** 1601B84
Project: 4641; Elliott Property **Client Contact:** Robert Kitay **Date Logged:** 1/29/2016
Comments: **Contact's Email:** rkitay@aquascienceengineers.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601B84-006A	BH-B 11.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 9:10	5 days		☑	
			SW8015B (Diesel)			☐		5 days		☑	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☑	
1601B84-007A	BH-C 3.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 13:30	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1601B84-008A	BH-C 7.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 13:36	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1601B84-009A	BH-C 11.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 13:40	5 days		☑	
			SW8015B (Diesel)			☐		5 days		☑	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☑	
1601B84-010A	BH-D 3.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 15:05	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC. **QC Level:** LEVEL 2 **Work Order:** 1601B84

Project: 4641; Elliott Property **Client Contact:** Robert Kitay **Date Logged:** 1/29/2016

Comments: **Contact's Email:** rkitay@aquascienceengineers.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601B84-011A	BH-D 7.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 15:10	5 days		☐	
			SW8015B (Diesel)			☐		5 days		☐	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☐	
1601B84-012A	BH-D 11.5'	Soil	SW8015B (Diesel w/ S.G. Clean-Up)	1	Acetate Liner	☐	1/28/2016 15:15	5 days		☑	
			SW8015B (Diesel)			☐		5 days		☑	
			TPH(g) & 8260 (Misc. Compounds) by P&T GCMS			☐		5 days		☑	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1601B84

Aqua Science Engineers, Inc.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

SAMPLER (SIGNATURE) Robert E. Kirby

PAGE 1 2

PROJECT NAME Elliott Property

ADDRESS 745 Kevin Ct, Oakland, CA

JOB NO. 4641

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
TPH-D to be analyzed both with and without silica gel cleanup

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015) With + w/o silica gel cleanup	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs (EPA 8082)	ORGANOCHLORINATED PESTICIDES (EPA 8081A)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G, BTEX & 5 OXY's + (EPA 8260) Naphthalene		COMPOSITE	EDF	HOLD
BH-A 3.5'	1-28-16	1356	S	1		X															
BH-A 7.5'		1400				X											X				
BH-A 11.5'		1405															X				
BH-B 3.5'		900				X															X
BH-B 7.5'		905				X											X				
BH-B 11.5'		910															X				
BH-C 3.5'		1330				X															X
BH-C 7.5'		1336				X											X				
BH-C 11.5'		1340															X				
BH-D 3.5'		1505				X															X
																	X				

RELINQUISHED BY:
Robert E. Kirby 1605
(signature) (time)
Robert E. Kirby 1-29-16
(printed name) (date)
Company-ASE, INC.

RECEIVED BY:
1605
(signature) (time)
Ben YSLAS 1/29/16
(printed name) (date)
Company- MKI

RELINQUISHED BY:
1745
(signature) (time)
1/29
(printed name) (date)
Company-

RECEIVED BY LABORATORY:
(signature) (time)
(printed name) (date)
Company-

COMMENTS:

TURN AROUND TIME
STANDARD 24Hr 48Hr 72Hr
OTHER:

Aqua Science Engineers, Inc.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

SAMPLER (SIGNATURE) Robert E. Kitty

PAGE 2 2

PROJECT NAME Elliott Property

JOB NO. 4641

ADDRESS 745 Kevin ct, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015) with w/o silica gel cleanup	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs (EPA 8082)	ORGANOCHLORINATED PESTICIDES (EPA 8081A)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G, BTEX & 5 OXY's + (EPA 8260) Naphthalene		COMPOSITE	EDF	HOLD
BH-D 7.5'	1-28-16	1510	S	1		X															
BH-D 11.5'	↓	1515	↓	1													X				X

RELINQUISHED BY:
Robert E. Kitty 1605
(signature) (time)
Robert E. Kitty 1-29-16
(printed name) (date)
Company-ASE, INC.

RECEIVED BY:
1605
(signature) (time)
Ben YSLAS 1/29/16
(printed name) (date)
Company- MAI

RELINQUISHED BY:
1745
(signature) (time)
1/29
(printed name) (date)
Company-

RECEIVED BY LABORATORY:
(signature) (time)
(printed name) (date)
Company-

COMMENTS:

TURN AROUND TIME
STANDARD 24Hr 48Hr 72Hr
OTHER:

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Aqua Science Engineers, Inc.**	Date and Time Received:	**1/29/2016 17:45**
Project Name:	**4641; Elliott Property**	Date Logged:	**1/29/2016**
WorkOrder №:	**1601B84** Matrix: Soil	Received by:	Briana Cutino
Carrier:	Benjamin Yslas (MAI Courier)	Logged by:	Briana Cutino

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	
Sample/Temp Blank temperature	Temp: 2.9°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853

APPENDIX D

Certified Analytical Report
and
Chain of Custody Documentation
For Groundwater Samples

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601B85

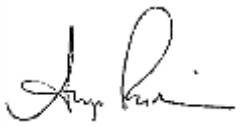
Report Created for: Aqua Science Engineers, Inc.

55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Robert Kitay
Project P.O.:
Project Name: 4641; Elliott Property

Project Received: 01/29/2016

Analytical Report reviewed & approved for release on 02/05/2016 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 4641; Elliott Property
WorkOrder: 1601B85

Glossary Abbreviation

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
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 4641; Elliott Property
WorkOrder: 1601B85

Analytical Qualifiers

b1	aqueous sample that contains greater than ~1 vol. % sediment
c8	sample pH is greater than 2
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
e11	stoddard solvent/mineral spirit (?)

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	2/3/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A Water	**1601B85-001C**	**Water**	**01/28/2016 14:45**	**GC16**	**116242**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**76**	50	1	02/03/2016 13:55

Surrogates	REC (%)	Limits	
Dibromofluoromethane	116	70-130	02/03/2016 13:55

Analyst(s): KF Analytical Comments: c8,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B Water	**1601B85-002C**	**Water**	**01/28/2016 09:40**	**GC16**	**116242**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	02/03/2016 13:16

Surrogates	REC (%)	Limits	
Dibromofluoromethane	113	70-130	02/03/2016 13:16

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C Water	**1601B85-003C**	**Water**	**01/28/2016 14:20**	**GC16**	**116242**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1000**	50	1	02/03/2016 14:35

Surrogates	REC (%)	Limits	
Dibromofluoromethane	119	70-130	02/03/2016 14:35

Analyst(s): KF Analytical Comments: c8,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D Water	**1601B85-004C**	**Water**	**01/28/2016 15:30**	**GC16**	**116242**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	02/03/2016 15:15

Surrogates	REC (%)	Limits	
Dibromofluoromethane	117	70-130	02/03/2016 15:15

Analyst(s): KF Analytical Comments: c8

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	2/4/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A Water	1601B85-001C	Water	01/28/2016 14:45	GC10	116242

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	02/04/2016 16:10
Benzene	**0.99**	0.50	1	02/04/2016 16:10
t-Butyl alcohol (TBA)	ND	2.0	1	02/04/2016 16:10
Diisopropyl ether (DIPE)	ND	0.50	1	02/04/2016 16:10
Ethylbenzene	ND	0.50	1	02/04/2016 16:10
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	02/04/2016 16:10
Methyl-t-butyl ether (MTBE)	**1.2**	0.50	1	02/04/2016 16:10
Naphthalene	ND	0.50	1	02/04/2016 16:10
Toluene	ND	0.50	1	02/04/2016 16:10
Xylenes, Total	ND	0.50	1	02/04/2016 16:10

Surrogates	REC (%)	Limits	
Dibromofluoromethane	110	70-130	02/04/2016 16:10
Toluene-d8	115	70-130	02/04/2016 16:10
4-BFB	85	70-130	02/04/2016 16:10

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B Water	1601B85-002C	Water	01/28/2016 09:40	GC10	116242

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	02/04/2016 16:50
Benzene	ND	0.50	1	02/04/2016 16:50
t-Butyl alcohol (TBA)	**2.8**	2.0	1	02/04/2016 16:50
Diisopropyl ether (DIPE)	ND	0.50	1	02/04/2016 16:50
Ethylbenzene	ND	0.50	1	02/04/2016 16:50
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	02/04/2016 16:50
Methyl-t-butyl ether (MTBE)	**0.83**	0.50	1	02/04/2016 16:50
Naphthalene	ND	0.50	1	02/04/2016 16:50
Toluene	ND	0.50	1	02/04/2016 16:50
Xylenes, Total	ND	0.50	1	02/04/2016 16:50

Surrogates	REC (%)	Limits	
Dibromofluoromethane	110	70-130	02/04/2016 16:50
Toluene-d8	115	70-130	02/04/2016 16:50
4-BFB	86	70-130	02/04/2016 16:50

Analyst(s): KF

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Received:	1/29/16 20:18	**Extraction Method:**	SW5030B
Date Prepared:	2/4/16	**Analytical Method:**	SW8260B
Project:	4641; Elliott Property	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C Water	**1601B85-003C**	**Water**	**01/28/2016 14:20**	**GC10**	**116242**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	02/04/2016 17:29
Benzene	**16**	0.50	1	02/04/2016 17:29
t-Butyl alcohol (TBA)	**28**	2.0	1	02/04/2016 17:29
Diisopropyl ether (DIPE)	**0.69**	0.50	1	02/04/2016 17:29
Ethylbenzene	**1.1**	0.50	1	02/04/2016 17:29
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	02/04/2016 17:29
Methyl-t-butyl ether (MTBE)	**9.4**	0.50	1	02/04/2016 17:29
Naphthalene	ND	0.50	1	02/04/2016 17:29
Toluene	**1.3**	0.50	1	02/04/2016 17:29
Xylenes, Total	**2.2**	0.50	1	02/04/2016 17:29

Surrogates	REC (%)	Limits	
Dibromofluoromethane	111	70-130	02/04/2016 17:29
Toluene-d8	112	70-130	02/04/2016 17:29
4-BFB	107	70-130	02/04/2016 17:29

Analyst(s): KF Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D Water	**1601B85-004C**	**Water**	**01/28/2016 15:30**	**GC10**	**116242**

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	02/04/2016 22:10
Benzene	ND	0.50	1	02/04/2016 22:10
t-Butyl alcohol (TBA)	ND	2.0	1	02/04/2016 22:10
Diisopropyl ether (DIPE)	ND	0.50	1	02/04/2016 22:10
Ethylbenzene	ND	0.50	1	02/04/2016 22:10
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	02/04/2016 22:10
Methyl-t-butyl ether (MTBE)	**7.6**	0.50	1	02/04/2016 22:10
Naphthalene	ND	0.50	1	02/04/2016 22:10
Toluene	ND	0.50	1	02/04/2016 22:10
Xylenes, Total	ND	0.50	1	02/04/2016 22:10

Surrogates	REC (%)	Limits	
Dibromofluoromethane	113	70-130	02/04/2016 22:10
Toluene-d8	116	70-130	02/04/2016 22:10
4-BFB	85	70-130	02/04/2016 22:10

Analyst(s): KF

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Received:	1/29/16 20:18	**Extraction Method:**	SW3510C/3630C
Date Prepared:	1/29/16	**Analytical Method:**	SW8015B
Project:	4641; Elliott Property	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A Water	1601B85-001B	Water	01/28/2016 14:45	GC6B	116003

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**8200**	2000	20	02/03/2016 20:54

Surrogates	REC (%)	Limits	
C9	104	70-130	02/03/2016 20:54

Analyst(s): TK Analytical Comments: e7,e2,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B Water	1601B85-002B	Water	01/28/2016 09:40	GC2A	116003

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**800**	500	10	02/04/2016 12:43

Surrogates	REC (%)	Limits	
C9	100	70-130	02/04/2016 12:43

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C Water	1601B85-003B	Water	01/28/2016 14:20	GC11A	116003

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1600**	500	5	02/02/2016 14:58

Surrogates	REC (%)	Limits	
C9	88	70-130	02/02/2016 14:58

Analyst(s): TK Analytical Comments: e7,e11,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D Water	1601B85-004B	Water	01/28/2016 15:30	GC11B	116003

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**7000**	5000	100	02/02/2016 17:15

Surrogates	REC (%)	Limits	
C9	107	70-130	02/02/2016 17:15

Analyst(s): TK Analytical Comments: e2

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Received:	1/29/16 20:18	**Extraction Method:**	SW3510C
Date Prepared:	1/29/16	**Analytical Method:**	SW8015B
Project:	4641; Elliott Property	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-A Water	**1601B85-001A**	**Water**	**01/28/2016 14:45**	**GC11A**	**116038**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**5500**	2000	20	02/02/2016 18:23

Surrogates	REC (%)	Limits	
C9	85	70-130	02/02/2016 18:23

Analyst(s): TK Analytical Comments: e7,e2,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-B Water	**1601B85-002A**	**Water**	**01/28/2016 09:40**	**GC6A**	**116038**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3600**	2500	50	02/02/2016 02:58

Surrogates	REC (%)	Limits	
C9	92	70-130	02/02/2016 02:58

Analyst(s): TK Analytical Comments: e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-C Water	**1601B85-003A**	**Water**	**01/28/2016 14:20**	**GC6A**	**116038**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1200**	100	2	02/02/2016 07:45

Surrogates	REC (%)	Limits	
C9	91	70-130	02/02/2016 07:45

Analyst(s): TK Analytical Comments: e11,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-D Water	**1601B85-004A**	**Water**	**01/28/2016 15:30**	**GC11B**	**116038**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**11,000**	7500	50	02/02/2016 18:23

Surrogates	REC (%)	Limits	
C9	100	70-130	02/02/2016 18:23

Analyst(s): TK Analytical Comments: e2

CLIENT: Aqua Science Engineers, Inc.
Work Order: 1601B85
Project: 4641; Elliott Property

ANALYTICAL QC SUMMARY REPORT

BatchID: 116242

SampleID	**MB-116242**	TestCode:	**8260GAS_W**	Units:	**µg/L**	Prep Date:	**2/3/2016**
Batch ID:	**116242**	TestNo:	**SW8260B**	Run ID:	**GC16_160204B**	Analysis Date:	**2/3/2016**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
TPH(g)	ND	50				-				
Surrogate Recovery										
Dibromofluoromethane	29.6		25		118	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

CLIENT: Aqua Science Engineers, Inc.
Work Order: 1601B85
Project: 4641; Elliott Property

ANALYTICAL QC SUMMARY REPORT

BatchID: 116242

SampleID	LCS-116242	TestCode:	8260GAS_W	Units:	µg/L	Prep Date:	2/3/2016
Batch ID:	116242	TestNo:	SW8260B	Run ID:	GC16_160204B	Analysis Date:	2/3/2016

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	542	50	644	0	84	75 - 105				
Surrogate Recovery										
Dibromofluoromethane	29.6		25		118	70 - 130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Prepared:	1/29/16	**BatchID:**	116003
Date Analyzed:	1/29/16 - 1/30/16	**Extraction Method:**	SW3510C/3630C
Instrument:	GC39A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116003

QC Report for SW8015B w/SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1030	50	1000	-	103	59-151
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	631	622		625	101	99	65-122

(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Prepared:	1/29/16	**BatchID:**	116038
Date Analyzed:	2/1/16	**Extraction Method:**	SW3510C
Instrument:	GC39A, GC39B	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116038

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1050	50	1000	-	105	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
Surrogate Recovery							
C9	615	628		625	98	100	65-122

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Prepared:	2/3/16	**BatchID:**	116242
Date Analyzed:	2/3/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116242 1601B85-002CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	10.4	0.50	10	-	104	54-140
Benzene	ND	9.72	0.50	10	-	97	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	42.8	2.0	40	-	107	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.70	0.50	10	-	97	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	10.0	0.50	10	-	100	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	10.6	0.50	10	-	106	66-125
1,1-Dichloroethene	ND	9.58	0.50	10	-	96	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Prepared:	2/3/16	**BatchID:**	116242
Date Analyzed:	2/3/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116242 1601B85-002CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	10.1	0.50	10	-	101	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	10.4	0.50	10	-	104	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	10.3	0.50	10	-	103	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	9.38	0.50	10	-	94	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	9.66	0.50	10	-	97	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B85
Date Prepared:	2/3/16	**BatchID:**	116242
Date Analyzed:	2/3/16	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116242 1601B85-002CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	26.5	26.6		25	106	106	70-130
Toluene-d8	27.1	26.4		25	108	105	70-130
4-BFB	2.41	2.63		2.5	96	105	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	10.2	9.64	10	ND	102	96	69-139	5.93	20
Benzene	9.64	9.02	10	ND	95	89	69-141	6.58	20
t-Butyl alcohol (TBA)	42.4	41.2	40	2.2	101	98	41-152	2.86	20
Chlorobenzene	9.37	8.80	10	ND	94	88	77-120	6.26	20
1,2-Dibromoethane (EDB)	9.83	9.43	10	ND	98	94	76-135	4.15	20
1,2-Dichloroethane (1,2-DCA)	10.5	9.82	10	ND	105	98	73-139	6.42	20
1,1-Dichloroethene	9.52	8.73	10	ND	95	87	59-140	8.56	20
Diisopropyl ether (DIPE)	10.1	9.47	10	ND	101	95	72-140	6.60	20
Ethyl tert-butyl ether (ETBE)	10.3	9.65	10	ND	103	97	71-140	6.42	20
Methyl-t-butyl ether (MTBE)	10.3	9.64	10	0.83	95	88	73-139	6.47	20
Toluene	9.31	8.84	10	0.54	88	83	71-128	5.19	20
Trichloroethene	9.54	8.80	10	ND	95	88	64-132	8.05	20
Surrogate Recovery									
Dibromofluoromethane	27.0	26.9	25		108	108	73-131	0	20
Toluene-d8	26.0	26.6	25		104	107	72-117	2.47	20
4-BFB	2.62	2.50	2.5		105	100	74-116	4.95	20

McCampbell Analytical, Inc.
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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601B85 **ClientCode: ASED**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Robert Kitay
Aqua Science Engineers, Inc.
55 Oak Court Suite 220
Danville, CA 94526
(925) 820-9391 FAX: (925) 837-4853

Email: rkitay@aquascienceengineers.com
cc/3rd Party:
PO:
ProjectNo: 4641; Elliott Property

Bill to:
Diane Schiell
Aqua Science Engineers, Inc.
217 Wild Flower Drive
Roseville, CA 95678
deezthng22@yahoo.com

Requested TAT: **5 days;**

Date Received: **01/29/2016**
Date Logged: **01/29/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601B85-001	BH-A Water	Water	1/28/2016 14:45	☐	C	C	A	B								
1601B85-002	BH-B Water	Water	1/28/2016 9:40	☐	C	C	A	B								
1601B85-003	BH-C Water	Water	1/28/2016 14:20	☐	C	C	A	B								
1601B85-004	BH-D Water	Water	1/28/2016 15:30	☐	C	C	A	B								

Test Legend:

1	8260GAS_W	2	8260VOC_W	3	TPH(D)_W	4	TPH(D)WSG_W
5		6		7		8	
9		10		11		12	

The following SampIDs: 001C, 002C, 003C, 004C contain testgroup.

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC. **QC Level:** LEVEL 2 **Work Order:** 1601B85
Project: 4641; Elliott Property **Client Contact:** Robert Kitay **Date Logged:** 1/29/2016
Comments: **Contact's Email:** rkitay@aquascienceengineers.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601B85-001A	BH-A Water	Water	SW8015B (Diesel)	3	VOA w/ HCl	☐	1/28/2016 14:45	5 days	Present	☐	
1601B85-001B	BH-A Water	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl	☐	1/28/2016 14:45	5 days	Present	☐	
1601B85-001C	BH-A Water	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	3	VOA w/ HCl	☐	1/28/2016 14:45	5 days	Present	☐	
1601B85-002A	BH-B Water	Water	SW8015B (Diesel)	3	VOA w/ HCl	☐	1/28/2016 9:40	5 days	Present	☐	
1601B85-002B	BH-B Water	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl	☐	1/28/2016 9:40	5 days	Present	☐	
1601B85-002C	BH-B Water	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	3	VOA w/ HCl	☐	1/28/2016 9:40	5 days	Present	☐	
1601B85-003A	BH-C Water	Water	SW8015B (Diesel)	3	VOA w/ HCl	☐	1/28/2016 14:20	5 days	Present	☐	
1601B85-003B	BH-C Water	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl	☐	1/28/2016 14:20	5 days	Present	☐	
1601B85-003C	BH-C Water	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	3	VOA w/ HCl	☐	1/28/2016 14:20	5 days	Present	☐	
1601B85-004A	BH-D Water	Water	SW8015B (Diesel)	3	VOA w/ HCl	☐	1/28/2016 15:30	5 days	Present	☐	
1601B85-004B	BH-D Water	Water	SW8015B (Diesel w/ S.G. Clean-Up)	3	VOA w/ HCl	☐	1/28/2016 15:30	5 days	Present	☐	
1601B85-004C	BH-D Water	Water	TPH(g) & 8260 (Misc. Compounds) by P&T GCMS	3	VOA w/ HCl	☐	1/28/2016 15:30	5 days	Present	☐	

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.

1601B85

Aqua Science Engineers, Inc.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

SAMPLER (SIGNATURE) Robert C. Kitty

PAGE 1 1

PROJECT NAME Elliott Property

ADDRESS 745 Kevin ct, Oakland, CA

JOB NO. 4941

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
TPH-D to be analyzed both with and without silica gel cleanup.

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015) With + without silica gel cleanup	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs (EPA 8082)	ORGANOCHLORINATED PESTICIDES (EPA 8081A)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G, BTEX & 5 OXY's + (EPA 8260) Naphthalene		COMPOSITE	EDF	HOLD
BH-A Water	1-28-16	1445	W	9		X											X				
BH-B Water		940		9		X											X				
BH-C Water		1420		9		X											X				
BH-D Water		1530		9		X											X				

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
Robert C. Kitty 16:05 (signature) (time)	1605 (signature) (time)	1745 (signature) (time)	(signature) (time)	
Robert E. Kitty 1-29-16 (printed name) (date)	Ben Yslas 1/29/16 (printed name) (date)	(printed name) (date)	(printed name) (date)	TURN AROUND TIME: STANDARD 24Hr 48Hr 72Hr
Company-ASE, INC.	Company- MAI	Company-	Company-	OTHER:

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Aqua Science Engineers, Inc.**	Date and Time Received:	**1/29/2016 17:45**
Project Name:	**4641; Elliott Property**	Date Logged:	**1/29/2016**
WorkOrder №:	**1601B85** Matrix:	Received by:	Briana Cutino
Carrier:	Benjamin Yslas (MAI Courier)	Logged by:	Briana Cutino

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 2.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853

APPENDIX E

Certified Analytical Report
and
Chain of Custody Documentation
For Soil Vapor Samples

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1601B91

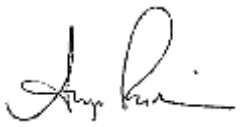
Report Created for: Aqua Science Engineers, Inc.

55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Robert Kitay
Project P.O.:
Project Name: 4641; Elliott Property

Project Received: 01/29/2016

Analytical Report reviewed & approved for release on 02/04/2016 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 4641; Elliott Property
WorkOrder: 1601B91

Glossary Abbreviation

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
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Quality Control Qualifiers

F2	LCS recovery for this compound is outside of acceptance limits.

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Case Narrative

Client: Aqua Science Engineers, Inc. **Work Order:** 1601B91
Project: 4641; Elliott Property February 04, 2016

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Received:	1/29/16 21:45	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	2/2/16	**Analytical Method:**	ASTM D 1946-90
Project:	4641; Elliott Property	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-1	1601B91-001A	SoilGas	01/28/2016 14:15	GC26	116174

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.60	29.18	MW

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	02/02/2016 15:16

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-2	1601B91-002A	SoilGas	01/28/2016 16:50	GC26	116174

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.54	27.01	MW

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	02/02/2016 15:29

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Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 1/29/16 21:45
Date Prepared: 2/1/16
Project: 4641; Elliott Property

WorkOrder: 1601B91
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-1	1601B91-001A	SoilGas	01/28/2016 14:15	GC26	116137

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.60	29.18	MW

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**0.22**	0.016	4	02/01/2016 17:34
Methane	**0.00039**	0.00020	1	02/01/2016 16:15
Oxygen	**14**	0.40	1	02/01/2016 19:47

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-2	1601B91-002A	SoilGas	01/28/2016 16:50	GC26	116137

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.54	27.01	MW

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**4.2**	0.16	40	02/01/2016 17:04
Methane	ND	0.00020	1	02/01/2016 16:36
Oxygen	**7.2**	0.40	1	02/01/2016 20:08

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Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 1/29/16 21:45
Date Prepared: 2/2/16
Project: 4641; Elliott Property

WorkOrder: 1601B91
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

TPH gas

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-1	1601B91-001A	SoilGas	01/28/2016 14:15	GC24	116173

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.60	29.18	MW

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	720	1	02/02/2016 17:33

Surrogates	REC (%)	Limits	
1,2-DCA-d4	93	70-130	02/02/2016 17:33

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-2	1601B91-002A	SoilGas	01/28/2016 16:50	GC24	116173

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.54	27.01	MW

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	720	1	02/02/2016 18:13

Surrogates	REC (%)	Limits	
1,2-DCA-d4	94	70-130	02/02/2016 18:13

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Received:	1/29/16 21:45	**Extraction Method:**	TO15
Date Prepared:	2/2/16	**Analytical Method:**	TO15
Project:	4641; Elliott Property	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-1	**1601B91-001A**	**SoilGas**	**01/28/2016 14:15**	**GC24**	**116173**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.60	**29.18**	**MW**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**5.5**	1.6	1	02/02/2016 17:33
Ethylbenzene	ND	2.2	1	02/02/2016 17:33
Naphthalene	ND	5.3	1	02/02/2016 17:33
Toluene	**9.7**	1.9	1	02/02/2016 17:33
Xylenes, Total	**12**	6.6	1	02/02/2016 17:33
Surrogates	REC (%)	Limits		
1,2-DCA-d4	101	70-130		02/02/2016 17:33
Toluene-d8	97	70-130		02/02/2016 17:33
4-BFB	94	70-130		02/02/2016 17:33

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SVW-2	**1601B91-002A**	**SoilGas**	**01/28/2016 16:50**	**GC24**	**116173**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.54	**27.01**	**MW**

Analytes	Result	RL	DF	Date Analyzed
Benzene	**6.1**	1.6	1	02/02/2016 18:13
Ethylbenzene	ND	2.2	1	02/02/2016 18:13
Naphthalene	ND	5.3	1	02/02/2016 18:13
Toluene	**8.2**	1.9	1	02/02/2016 18:13
Xylenes, Total	**10**	6.6	1	02/02/2016 18:13
Surrogates	REC (%)	Limits		
1,2-DCA-d4	99	70-130		02/02/2016 18:13
Toluene-d8	99	70-130		02/02/2016 18:13
4-BFB	95	70-130		02/02/2016 18:13

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Prepared:	2/2/16	**BatchID:**	116174
Date Analyzed:	2/2/16	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	Soilgas	**Unit:**	%
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116174

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.0875	0.025	0.10	-	88	60-140

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Prepared:	2/1/16	**BatchID:**	116137
Date Analyzed:	2/1/16	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116137

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Carbon Dioxide	ND	0.00826	0.0020	0.010	-	83	70-130
Methane	ND	0.0112	0.00010	0.010	-	112	70-130
Oxygen	ND	0.524	0.20	0.70	-	75	70-130

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Prepared:	2/2/16	**BatchID:**	116173
Date Analyzed:	2/2/16	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	Soilgas	**Unit:**	µg/m³
Project:	4641; Elliott Property	**Sample ID:**	MB-116173

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(g)	ND	-	360	-	-	-	-
Surrogate Recovery							
1,2-DCA-d4	466	-		500	93	-	-
Toluene-d8	489	-		500	98	-	-
4-BFB	465	-		500	93	-	-

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Prepared:	2/2/16	**BatchID:**	116173
Date Analyzed:	2/2/16	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116173

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	50.3	30	60	-	84	60-140
Acrolein	ND	55.5	2.9	58.25	-	95	60-140
Acrylonitrile	ND	50.2	0.55	55	-	91	60-140
tert-Amyl methyl ether (TAME)	ND	114	1.0	105	-	109	60-140
Benzene	ND	78.7	0.80	80	-	98	60-140
Benzyl chloride	ND	176	1.3	132.5	-	133	60-140
Bromodichloromethane	ND	210	1.8	175	-	120	60-140
Bromoform	ND	293	2.6	262.5	-	112	60-140
Bromomethane	ND	143	1.0	97.5	-	146, F2	60-140
1,3-Butadiene	ND	54.0	0.55	55	-	98	60-140
2-Butanone (MEK)	ND	68.3	38	75	-	91	60-140
t-Butyl alcohol (TBA)	ND	73.8	16	77.5	-	95	60-140
Carbon Disulfide	ND	76.6	0.80	80	-	96	60-140
Carbon Tetrachloride	ND	177	1.6	160	-	111	60-140
Chlorobenzene	ND	115	1.2	117.5	-	98	60-140
Chloroethane	ND	66.2	0.65	67.5	-	98	60-140
Chloroform	ND	106	1.2	122.5	-	86	60-140
Chloromethane	ND	38.1	0.50	52.5	-	73	60-140
Cyclohexane	ND	76.7	9.0	87.5	-	88	60-140
Dibromochloromethane	ND	272	2.2	217.5	-	125	60-140
1,2-Dibromo-3-chloropropane	ND	264	0.060	245	-	108	60-140
1,2-Dibromoethane (EDB)	ND	185	2.0	195	-	95	60-140
1,2-Dichlorobenzene	ND	158	1.5	152.5	-	104	60-140
1,3-Dichlorobenzene	ND	158	1.5	152.5	-	104	60-140
1,4-Dichlorobenzene	ND	140	1.5	152.5	-	92	60-140
Dichlorodifluoromethane	ND	116	1.2	125	-	93	60-140
1,1-Dichloroethane	ND	95.2	1.0	102.5	-	93	60-140
1,2-Dichloroethane (1,2-DCA)	ND	88.3	1.0	102.5	-	86	60-140
1,1-Dichloroethene	ND	86.4	1.0	100	-	86	60-140
cis-1,2-Dichloroethene	ND	92.8	1.0	100	-	93	60-140
trans-1,2-Dichloroethene	ND	102	1.0	100	-	102	60-140
1,2-Dichloropropane	ND	109	1.2	117.5	-	93	60-140
cis-1,3-Dichloropropene	ND	122	1.2	115	-	106	60-140
trans-1,3-Dichloropropene	ND	132	1.2	115	-	115	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	161	1.8	177.5	-	91	60-140
Diisopropyl ether (DIPE)	ND	89.4	1.0	105	-	85	60-140
1,4-Dioxane	ND	86.6	0.90	92.5	-	94	60-140

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Prepared:	2/2/16	**BatchID:**	116173
Date Analyzed:	2/2/16	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116173

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	ND	48	47.5	-	89	60-140
Ethyl acetate	ND	88.6	0.90	92.5	-	96	60-140
Ethyl tert-butyl ether (ETBE)	ND	97.3	1.0	105	-	93	60-140
Ethylbenzene	ND	98.4	1.1	110	-	89	60-140
4-Ethyltoluene	ND	129	1.2	125	-	103	60-140
Freon 113	ND	178	2.0	195	-	91	60-140
Heptane	ND	102	10	105	-	97	60-140
Hexachlorobutadiene	ND	295	2.7	270	-	109	60-140
Hexane	ND	77.8	9.0	90	-	86	60-140
2-Hexanone	ND	98.3	1.0	105	-	94	60-140
Isopropyl Alcohol	ND	57.1	25	62.5	-	91	60-140
4-Methyl-2-pentanone (MIBK)	ND	99.9	1.0	105	-	95	60-140
Methyl-t-butyl ether (MTBE)	ND	109	0.90	92.5	-	118	60-140
Methylene chloride	ND	75.3	4.4	87.5	-	86	60-140
Methyl methacrylate	ND	116	1.0	104	-	112	60-140
Naphthalene	ND	281	2.6	265	-	106	60-140
Propene	ND	ND	44	42.5	-	90	60-140
Styrene	ND	113	1.1	107.5	-	105	60-140
1,1,1,2-Tetrachloroethane	ND	184	1.8	175	-	105	60-140
1,1,2,2-Tetrachloroethane	ND	152	1.8	175	-	87	60-140
Tetrachloroethene	ND	164	1.7	172	-	95	60-140
Tetrahydrofuran	ND	62.7	1.5	75	-	84	60-140
Toluene	ND	89.9	0.95	95	-	95	60-140
1,2,4-Trichlorobenzene	ND	203	1.9	187.5	-	108	60-140
1,1,1-Trichloroethane	ND	163	1.4	137.5	-	119	60-140
1,1,2-Trichloroethane	ND	128	1.4	137.5	-	93	60-140
Trichloroethene	ND	129	1.4	137.5	-	94	60-140
Trichlorofluoromethane	ND	170	1.4	142.5	-	119	60-140
1,2,4-Trimethylbenzene	ND	132	1.2	125	-	106	60-140
1,3,5-Trimethylbenzene	ND	130	1.2	125	-	104	60-140
Vinyl Acetate	ND	94.8	9.0	90	-	105	60-140
Vinyl Chloride	ND	56.5	0.65	65	-	87	60-140
Xylenes, Total	ND	328	3.3	330	-	100	60-140

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1601B91
Date Prepared:	2/2/16	**BatchID:**	116173
Date Analyzed:	2/2/16	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	4641; Elliott Property	**Sample ID:**	MB/LCS-116173

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
1,2-DCA-d4	485	472		500	97	94	70-130
Toluene-d8	491	492		500	98	98	70-130
4-BFB	464	475		500	93	95	70-130

McCampbell Analytical, Inc.
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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1601B91 **ClientCode: ASED**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Robert Kitay
Aqua Science Engineers, Inc.
55 Oak Court Suite 220
Danville, CA 94526
(925) 820-9391 FAX: (925) 837-4853

Email: rkitay@aquascienceengineers.com
cc/3rd Party:
PO:
ProjectNo: 4641; Elliott Property

Bill to:
Diane Schiell
Aqua Science Engineers, Inc.
217 Wild Flower Drive
Roseville, CA 95678
deezthng22@yahoo.com

Requested TAT: 5 days;

Date Received: **01/29/2016**
Date Logged: **01/29/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1601B91-001	SVW-1	SoilGas	1/28/2016 14:15	☐	A	A	A	A	A	A	A					
1601B91-002	SVW-2	SoilGas	1/28/2016 16:50	☐	A	A			A	A	A					

Test Legend:

1	HELIUM_LC_SOILGAS(%)	2	LG_SUMMA_SOILGAS(%)	3	PRCOURIER TRIP	4	PRHELIUM SHROUD
5	TO15_Scan-SIM_SOIL(UG/M3)	6	TO15-8260_SOIL(UG/M3)	7	TO15GAS_Scan-SIM_SOIL(UG/M3)	8	
9		10		11		12	

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Jena Alfaro

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.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC.
Project: 4641; Elliott Property
Comments:

QC Level: LEVEL 2
Client Contact: Robert Kitay
Contact's Email: rkitay@aquascienceengineers.com

Work Order: 1601B91
Date Logged: 1/29/2016

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1601B91-001A	SVW-1	SoilGas	ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen>	1	1L Summa	☐	1/28/2016 14:15	5 days		☐	
			TO15 + Gas w/ Helium			☐		5 days		☐	
1601B91-002A	SVW-2	SoilGas	ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Methane_4, Oxygen>	1	1L Summa	☐	1/28/2016 16:50	5 days		☐	
			TO15 + Gas w/ Helium			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1601B91

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ EQuIS ☐ 10 DAY ☐

UST Clean Up Fund Project ☐ Claim #

Report To: Robert Kitay	Bill To: Robert Kitay
Company: Aqua Science Engineers, 55 Oak Ct, Ste 220, Danville, CA 94526	E-Mail: rkitay@aquascienceengineers.com
Tele: (925) 413-8004	Fax: (925) 837-4853
Project #: 4641	Project Name: Elliott Property
Project Location: 745 Kevin Ct, Oakland, CA	
Sampler Signature:	

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	VOCs by TO-15 (ug/m3)	8010 by TO-15 (ug/m3)	TPH(g) (ug/m3) +BTEX+naphthalene	LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L	Fixed Gas: O2, N2 (please circle) uL/L	Fixed Gas: Propane uL/L	Helium Leak Check (%)	Leak Check (IPA, Norflorane, 1,1-difluroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other: CO2, O2, methane (%)	Matrix: Soilgas	Matrix: Indoor Air	Cannister Pressure/ Vacuum: Initial	Cannister Pressure/ Vacuum: Final
SVW-1	1-28-16	1415	CAN7517-865	MAN316-686			X					X			X	X		-30	-5
SVW-2	1-28-16	1650	CAN6202-743	MAN316-686*			X					X			X	X		-30	-3

Analysis Requested

Helium Shroud SN#

Other:

Notes: Please Specify units if different than defaults VOCs is ug/m3 and fixed gas is uL/L. Leak check default is IPA.
Manifold reused due to MAN 316T-1310 not passing shut in test.

Relinquished By:	Date:	Time:	Received By:
C. Kitay	1-29-16	1605	
	1/29	1745	

Temp (°C): _____ Work Order #: _____

Condition: _____

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____

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Sample Receipt Checklist

Client Name:	**Aqua Science Engineers, Inc.**	Date and Time Received:	**1/29/2016 17:45**
Project Name:	**4641; Elliott Property**	Date Logged:	**1/29/2016**
WorkOrder №:	**1601B91** Matrix: SoilGas	Received by:	Jena Alfaro
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Jena Alfaro

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	
Sample/Temp Blank temperature	Temp:				NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☐	No	☑	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments: