To Whom It May Concern:

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

Mark C. Elliott

Clean Earth Geologic, LLC

1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

September 11, 2017

REPORT
For
ADDITIONAL SOIL AND GROUNDWATER ASSESSMENT
AND WORKPLAN FOR SOIL EXCAVATION
at
Elliott Property
745 Kevin Court
Oakland, California

Prepared for:
Mark Elliott
408 Silver Chief Way
Danville, CA 94526

Submitted by:
Clean Earth Geologic, LLC
1001 Rolling Woods Way
Concord, CA 94521
(925) 413-8604

Clean Earth Geologic, LLC
1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s soil and groundwater assessment at 745 Kevin Court in Oakland, California (Figure 1). The fieldwork was conducted by Aqua Science Engineers, Inc. (ASE). However, Clean Earth Geologic, LLC (CEG) has prepared this report since ASE is no longer is business. 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.

In January 2016, ASE drilled borings BH-A through BH-D in and surrounding the former UST pit. The boring locations are shown on Figure 1, and the soil and groundwater analytical results are tabulated in Tables One and Two. Two soil vapor sampling points were also drilled. 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. The samples also contained sufficient oxygen (over 4%) to allow for bioremediation.

3.0 PROPOSED SCOPE OF WORK

The purpose of this assessment is to provide additional data to determine whether the soil and groundwater remediation plan for the site needs to be modified. The specific proposed scope of work is as follows:

1) Obtain a drilling permit from the Alameda County Public Works Agency.

2) Notify Underground Service Alert (USA) and of the drilling and have drilling locations cleared of subsurface utility lines.

3) Drill five soil borings at the site using a Geoprobe direct push drill rig and collect soil and groundwater samples from the borings.

4) Analyze two soil and one groundwater samples from each boring at a CAL-EPA certified analytical laboratory for TPH-G and TPH-D by modified EPA Method 8015.

5) Backfill each boring with neat cement.

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

Details of the assessment are presented below.

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 a drilling permit from the Alameda County Public Works Agency to drill soil borings. A copy of the permit is 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.

5.0 DRILL FIVE SOIL BORINGS FOR COLLECTION OF SOIL AND GROUNDWATER SAMPLES

5.1 Drilling and Soil Sample Collection

On January 12, 2017, V&W Drilling of Stockton, California attempted to drill the borings for this project. However, due to the heavy rain and flooding for the site, it was not possible to complete the drilling for this project until the site dried out after the rainy season.

On May 23, 2017, V&W Drilling returned to the site and drilled borings BH-E through BH-I using a Geoprobe hydraulic sampling rig. The boring locations are shown on Figure 1. ASE senior geologist Robert E. Kitay, P.G. directed the drilling.

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 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.

5.4 Subsurface Lithology and Hydrogeology

Sediments encountered during drilling generally consisted of clayey silt from beneath the concrete surface to approximately 2.5-feet bgs, silty sand from 2.5-feet bgs to 5-feet bgs, and silty clay or clayey silt from 5-feet bgs to the total depth explored of 12-feet bgs. A notable exception was BH-F that contained silty sand for the entire length of the boring to 8-feet bgs. Groundwater was encountered at approximately 4-feet bgs. Boring logs are presented in Appendix B.

6.0 ANALYZE SOIL SAMPLES

The soil sample collected from 3.5-feet bgs (the capillary zone) in all borings and 7.5-feet bgs in borings BH-E through BH-H, and 11.5-feet bgs in BH-I were analyzed by McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) for TPH-D with silica gel cleanup by SW Method 8015B and TPH-G by SW Method 8021/8015Bm. 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 TPH-G concentration detected in soil during this sampling event was 1.1 parts per million (ppm) at 3.5-feet bgs in boring BH-G. TPH-D concentrations in the soil samples collected from 3.5-feet bgs during this sampling event ranged from 1.5 ppm to 89 ppm. The highest concentration of 89 ppm was in BH-G. The only TPH-D concentration in the samples collected from 7.5-feet bgs or deeper was 32 ppm in the sample collected from BH-F.

7.0 ANALYZE THE GROUNDWATER SAMPLES

Groundwater samples collected from borings BH-E through BH-I were analyzed by McCampbell Analytical, Inc. of Pittsburg, California (DHS ELAP certification #1644) for TPH-D with silica gel cleanup by SW Method 8015, and TPH-G by SW Method 8021B/8015Bm. The analytical results are tabulated in Table Two, and the certified analytical report and chain of custody forms are included in Appendix C.

The only groundwater sample to contain TPH-G was BH-H, which contained 510 ppb TPH-G. Groundwater samples collected from all five borings contained TPH-D at concentrations ranging from 1,500 ppb to 16,000 ppb.

8.0 CONCLUSIONS AND RECOMMENDATIONS

ASE concludes the following:

- TPH-D concentrations in the soil samples collected from 3.5-feet bgs during this sampling event ranged from 1.5 ppm to 89 ppm., with the highest concentration of 89 ppm in BH-G. The only TPH-D concentration in the samples collected from 7.5-feet bgs or deeper was 32 ppm in the sample collected from BH-F. No significant TPH-G concentrations were detected.

- The only groundwater sample to contain TPH-G was BH-H, which contained 510 ppb TPH-G. Groundwater samples collected from all five borings contained TPH-D at concentrations ranging from 1,500 ppb and 16,000 ppb.

- It does not appear that the former USTs at the site are the source of elevated hydrocarbon concentrations in soil and groundwater. There is also no definitive evidence that the source of elevated hydrocarbons on the site is related to an off-site UST on a neighboring property.

Based on discussions with the Alameda County Health Care Services Agency, CEG recommends the following:

- CEG recommends that a limited soil remediation take place in the vicinity of, and including, previous borings BH-D and BH-G. The excavation is planned to be approximately 30 feet long, by 6 feet wide, by 5 feet deep. The actual excavation dimensions will be based on field observations during the excavation. Black and/or odorous soil will be removed. No confirmation soil samples will be collected; however, soil samples will be collected from the stockpile of excavated soil for the purposes of profiling the soil for landfill disposal.

- The excavated soil will be profiled into an appropriate landfill permitted to accept this soil based on the analytical results. Based on the estimated dimensions of the excavation, approximately 45 cubic yards of soil will be generated for off-site disposal. The actual volume will be based on the final size of the excavation.

- The excavation will be backfilled with virgin fill from a local quarry.

9.0 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 CEG 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 CEG relied upon any information prepared by other parties, CEG 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 CEG'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. CEG'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.

CEG 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.

Should you have any questions or comments, please call us at (925) 413-8604.

Respectfully submitted,

CLEAN EARTH GEOLOGIC, LLC

Robert E. Kitay, P.G.
Principal Geologist

Clean Earth Geologic, LLC
1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

FIGURES

NORTH

0 25

SCALE
IN FEET

LEGEND

- Former UST
- Proposed Excavation
- Boring Drilled by ASE
- Boring Drilled by AEI

BORING LOCATION MAP
WITH PROPOSED
EXCAVATION LOCATION

745 Kevin Court
Oakland, California

Clean Earth Geologic, LLC | Figure 1

Clean Earth Geologic, LLC
1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

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
BH-E	3.5	< 1.0	32	---	---	---	---	---	---	---	---	---
	7.5	< 1.0	< 1.0	---	---	---	---	---	---	---	---	---
BH-F	3.5	< 1.0	2.8	---	---	---	---	---	---	---	---	---
	7.5	< 1.0	32	---	---	---	---	---	---	---	---	---
BH-G	3.5	1.1	89	---	---	---	---	---	---	---	---	---
	7.5	< 1.0	< 1.0	---	---	---	---	---	---	---	---	---
BH-H	3.5	< 1.0	58	---	---	---	---	---	---	---	---	---
	7.5	< 1.0	< 1.0	---	---	---	---	---	---	---	---	---
BH-I	3.5	< 1.0	1.5	---	---	---	---	---	---	---	---	---
	11.5	< 1.0	< 1.0	---	---	---	---	---	---	---	---	---
ESL		100	230	230	0.044	2.9	1.4	2.3	0.033	0.023	0.075	Varies

Notes:

TPH = Total petroleum hydrocarbons

SGCU = Silica Gel Cleanup

MTBE - Methyl-t-butyl ether

TBA = tert-butyl ether

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
BH-E	< 50	**1,500**	---	---	---	---	---	---	---	---	---
BH-F	< 50	**16,000**	---	---	---	---	---	---	---	---	---
BH-G	< 50	**5,900**	---	---	---	---	---	---	---	---	---
BH-H	**510**	**6,900**	---	---	---	---	---	---	---	---	---
BH-I	< 50	**2,500**	---	---	---	---	---	---	---	---	---
ESL (DW)	100	100	100	1.0	40	13	20	0.17	5.0	12	Varies
ESL (NDW)	500	640	640	46	130	13	100	20	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.

Clean Earth Geologic, LLC
1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

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: 01/10/2017 By jamesy

Permit Numbers: W2017-0016
Permits Valid from 01/12/2017 to 01/12/2017

Application Id: 1483990586389 **City of Project Site:** Oakland
Site Location: 745 Kevin Court
Project Start Date: 01/12/2017 **Completion Date:** 01/12/2017
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Applicant: Aqua Science Engineers - Robert Kitay **Phone:** 925-413-8604
217 Wildflower Drive, Roseville, CA 95678
Property Owner: Mark Elliott **Phone:** --
408 Silver Chief Way, Danville, CA 94526
Client: ** same as Property Owner **

Total Due: $265.00
Receipt Number: WR2017-0011 **Total Amount Paid:** $265.00
Payer Name : Aqua Science Engineers Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 5 Boreholes
Driller: V&W Drilling - Lic #: 720904 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2017-0016	01/10/2017	04/12/2017	5	2.00 in.	12.00 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. 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.

5. 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.

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. 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.

8. 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.

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.

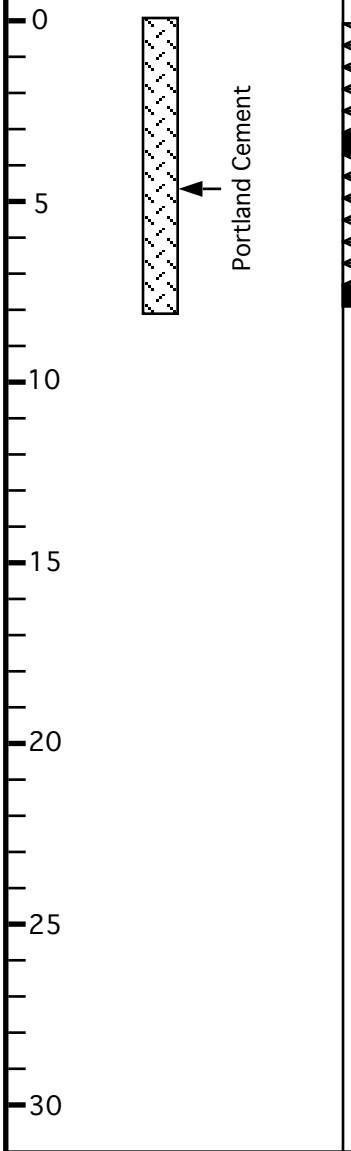
Clean Earth Geologic, LLC
1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

APPENDIX B

Boring Logs

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-E
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: V&W Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: May 23, 2017	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: 8'	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.

Concrete

Silty SAND (SM); brown; loose; damp; 70% fine to medium sand; 30% silt; medium estimated K; no odor

Sandy SILT (ML); brown; medium dense; damp; 75% silt; 15% fine sand; 10% clay; low plasticity; low estimated K; no odor

Silty SAND (SM); brown; loose; wet; 85% fine to coarse sand; 15% silt; high estimated K; no odor

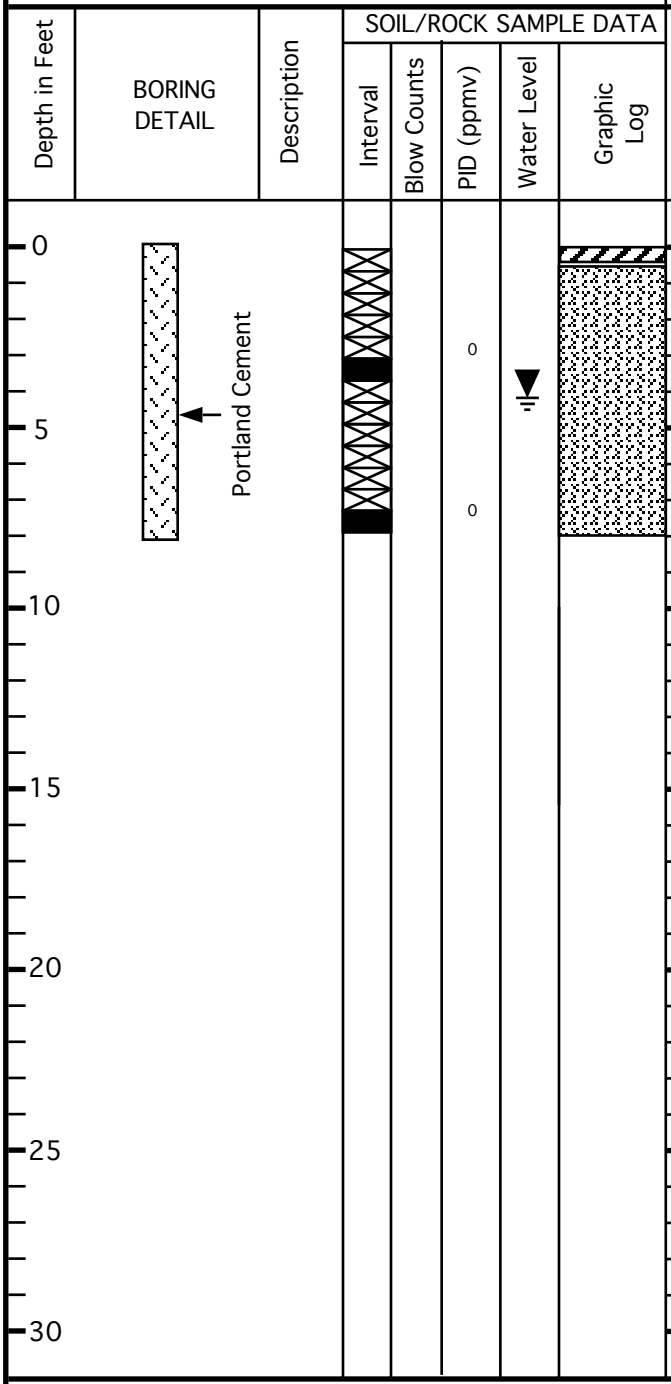
Silty CLAY (CH); dark brown; stiff; wet; 80% clay; 15% silt; 5% fine sand; high plasticity; very low estimated K; no odor

End of boring at 8'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-F
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: V&W Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: May 23, 2017	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: 8'	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.

Concrete

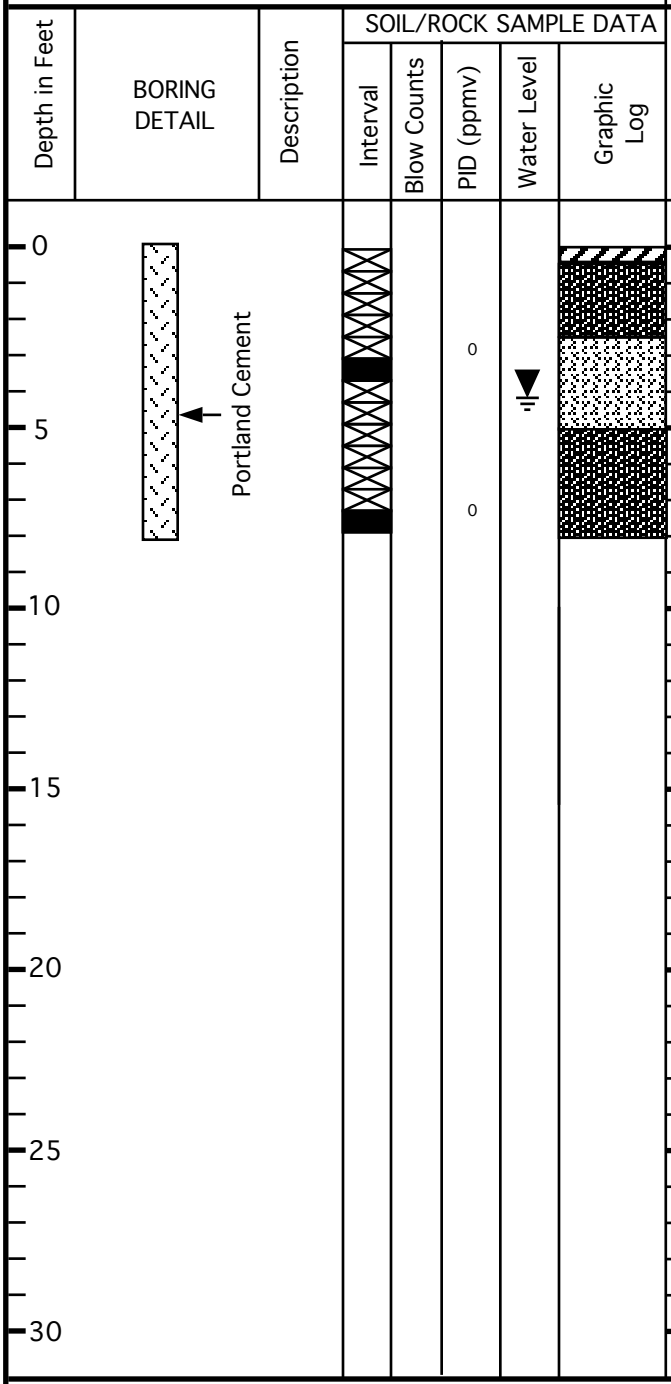
Silty SAND (SM); brown; medium dense; damp; 70% fine to medium sand; 20% silt; 10% gravel to 2" diameter; medium estimated K; no odor
moist at 2'
wet at 3.8'

End of boring at 8'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-G
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: V&W Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: May 23, 2017	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: 8'	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.

Concrete

Clayey SILT (ML); black; soft; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; sewage-like odor

Silty SAND (SM); black; loose; moist; 70% fine to medium sand; 20% silt; 10% gravel to 2" diameter; high estimated K; sewage-like odor

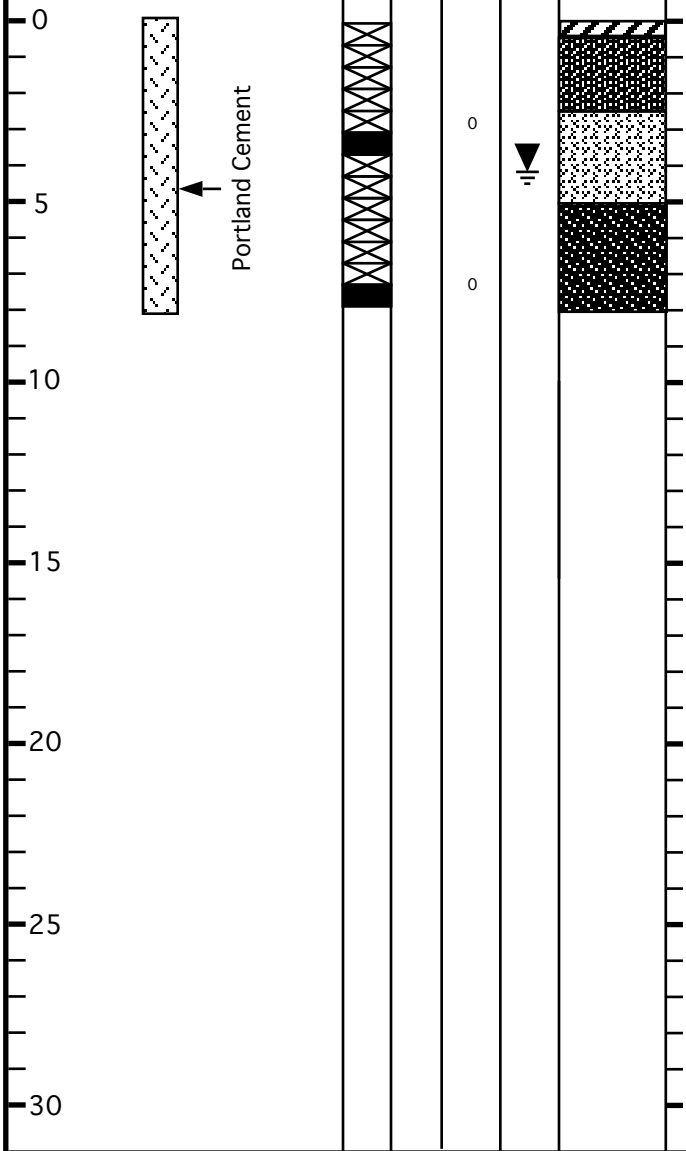
Clayey SILT (ML); black; soft; wet; 70% silt; 20% clay; 10% fine sand; moderate plasticity; low estimated K; sewage-like odor

End of boring at 8'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-H
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: V&W Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: May 23, 2017	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: 8'	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.

Concrete

Clayey SILT (ML); black; medium stiff; damp; 85% silt; 10% clay; 5% sand; low plasticity; low estimated K; no odor

Silty SAND (SM); black; medium dense; moist; 70% fine to medium sand; 20% silt; 10% gravel to 2" diameter; high estimated K; sewage-like odor

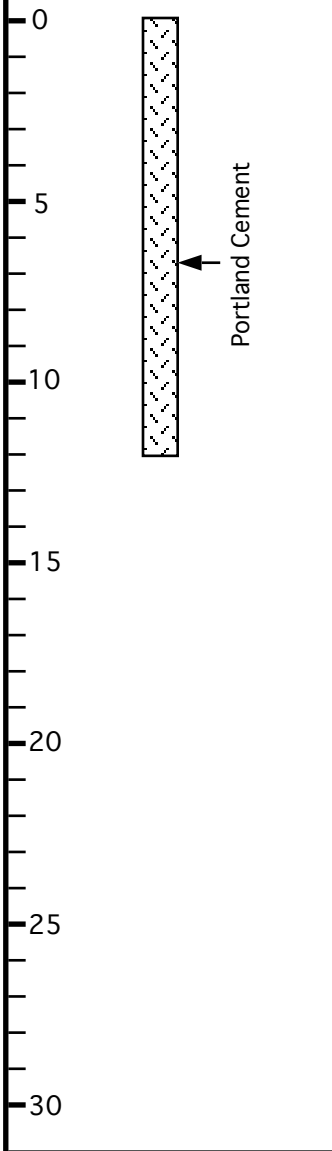
Silty CLAY (CH); black; medium stiff; wet; 65% clay; 25% silt; 10% fine sand; moderate plasticity; low estimated K; sewage-like odor

End of boring at 8'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-I
Project Name: Elliott Property	Project Location: 745 Kevin Ct, Oakland, CA	Page 1 of 1
Driller: V&W Drilling	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert E. Kitay, P.G.	Date Drilled: May 23, 2017	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.

Concrete

Clayey SILT (MH); black; medium stiff; damp; 60% silt; 30% clay; 10% sand; moderate plasticity; very low est. K; no odor

Silty SAND (SM); black; loose; wet; 70% fine to coarse sand; 20% silt; 10% gravel to 2" diameter; high estimated K; no odor

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

End of boring at 12'

AQUA SCIENCE ENGINEERS, INC.

Clean Earth Geologic, LLC
1001 Rolling Woods Way, Concord, CA 94521
(925) 413-8604

APPENDIX C

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

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1705B08 **Amended:** 06/06/2017

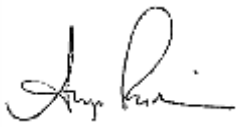
Report Created for: Aqua Science Engineers, Inc.

55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Robert Kitay
Project P.O.:
Project Name: 745 Kevin Ct.

Project Received: 05/24/2017

Analytical Report reviewed & approved for release on 06/01/2017 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: 745 Kevin Ct.
WorkOrder: 1705B08

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 745 Kevin Ct.
WorkOrder: 1705B08

Analytical Qualifiers

b1	aqueous sample that contains greater than ~1 vol. % sediment
d1	weakly modified or unmodified gasoline is significant
d7	Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

Quality Control Qualifiers

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

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/24/17-5/31/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-E 3.5'	1705B08-001A	Soil	05/23/2017 08:25	GC19	139433

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 16:35
MTBE	---	0.050	1	05/31/2017 16:35
Benzene	---	0.0050	1	05/31/2017 16:35
Toluene	---	0.0050	1	05/31/2017 16:35
Ethylbenzene	---	0.0050	1	05/31/2017 16:35
Xylenes	---	0.015	1	05/31/2017 16:35

Surrogates	REC (%)	Limits	
2-Fluorotoluene	72	62-126	05/31/2017 16:35

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-E 7.5'	1705B08-002A	Soil	05/23/2017 08:40	GC19	139433

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 03:11
MTBE	---	0.050	1	05/31/2017 03:11
Benzene	---	0.0050	1	05/31/2017 03:11
Toluene	---	0.0050	1	05/31/2017 03:11
Ethylbenzene	---	0.0050	1	05/31/2017 03:11
Xylenes	---	0.015	1	05/31/2017 03:11

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	62-126	05/31/2017 03:11

Analyst(s): IA

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/24/17-5/31/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-F 3.5'	**1705B08-003A**	**Soil**	**05/23/2017 09:22**	**GC19**	**139433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 03:41
MTBE	---	0.050	1	05/31/2017 03:41
Benzene	---	0.0050	1	05/31/2017 03:41
Toluene	---	0.0050	1	05/31/2017 03:41
Ethylbenzene	---	0.0050	1	05/31/2017 03:41
Xylenes	---	0.015	1	05/31/2017 03:41

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	62-126	05/31/2017 03:41

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-F 7.5'	**1705B08-004A**	**Soil**	**05/23/2017 09:30**	**GC19**	**139433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 04:11
MTBE	---	0.050	1	05/31/2017 04:11
Benzene	---	0.0050	1	05/31/2017 04:11
Toluene	---	0.0050	1	05/31/2017 04:11
Ethylbenzene	---	0.0050	1	05/31/2017 04:11
Xylenes	---	0.015	1	05/31/2017 04:11

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	62-126	05/31/2017 04:11

Analyst(s): IA

(Cont.)

NELAP 4033ORELAP

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/24/17-5/31/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-G 3.5'	**1705B08-005A**	**Soil**	**05/23/2017 10:20**	**GC19**	**139740**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	**1.1**	1.0	1	06/01/2017 11:25
MTBE	**---**	0.050	1	06/01/2017 11:25
Benzene	**---**	0.0050	1	06/01/2017 11:25
Toluene	**---**	0.0050	1	06/01/2017 11:25
Ethylbenzene	**---**	0.0050	1	06/01/2017 11:25
Xylenes	**---**	0.015	1	06/01/2017 11:25

Surrogates	REC (%)	Limits	
2-Fluorotoluene	93	62-126	06/01/2017 11:25

Analyst(s): IA Analytical Comments: d7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-G 7.5'	**1705B08-006A**	**Soil**	**05/23/2017 10:30**	**GC19**	**139433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 05:41
MTBE	**---**	0.050	1	05/31/2017 05:41
Benzene	**---**	0.0050	1	05/31/2017 05:41
Toluene	**---**	0.0050	1	05/31/2017 05:41
Ethylbenzene	**---**	0.0050	1	05/31/2017 05:41
Xylenes	**---**	0.015	1	05/31/2017 05:41

Surrogates	REC (%)	Limits	
2-Fluorotoluene	93	62-126	05/31/2017 05:41

Analyst(s): IA

(Cont.)

NELAP 4033ORELAP

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/24/17-5/31/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-H 3.5'	**1705B08-007A**	**Soil**	**05/23/2017 11:16**	**GC19**	**139740**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/01/2017 11:56
MTBE	---	0.050	1	06/01/2017 11:56
Benzene	---	0.0050	1	06/01/2017 11:56
Toluene	---	0.0050	1	06/01/2017 11:56
Ethylbenzene	---	0.0050	1	06/01/2017 11:56
Xylenes	---	0.015	1	06/01/2017 11:56

Surrogates	REC (%)	Limits	
2-Fluorotoluene	85	62-126	06/01/2017 11:56

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-H 7.5'	**1705B08-008A**	**Soil**	**05/23/2017 11:22**	**GC19**	**139433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 06:41
MTBE	---	0.050	1	05/31/2017 06:41
Benzene	---	0.0050	1	05/31/2017 06:41
Toluene	---	0.0050	1	05/31/2017 06:41
Ethylbenzene	---	0.0050	1	05/31/2017 06:41
Xylenes	---	0.015	1	05/31/2017 06:41

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	62-126	05/31/2017 06:41

Analyst(s): IA

(Cont.)

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

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/24/17-5/31/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-I 3.5'	**1705B08-009A**	**Soil**	**05/23/2017 12:20**	**GC19**	**139433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 07:11
MTBE	---	0.050	1	05/31/2017 07:11
Benzene	---	0.0050	1	05/31/2017 07:11
Toluene	---	0.0050	1	05/31/2017 07:11
Ethylbenzene	---	0.0050	1	05/31/2017 07:11
Xylenes	---	0.015	1	05/31/2017 07:11

Surrogates	REC (%)	Limits	
2-Fluorotoluene	92	62-126	05/31/2017 07:11

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-I 11.5'	**1705B08-011A**	**Soil**	**05/23/2017 12:40**	**GC19**	**139433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	05/31/2017 07:41
MTBE	---	0.050	1	05/31/2017 07:41
Benzene	---	0.0050	1	05/31/2017 07:41
Toluene	---	0.0050	1	05/31/2017 07:41
Ethylbenzene	---	0.0050	1	05/31/2017 07:41
Xylenes	---	0.015	1	05/31/2017 07:41

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	62-126	05/31/2017 07:41

Analyst(s): IA

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

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/28/17-5/29/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-E	**1705B08-012A**	**Water**	**05/23/2017 09:00**	**GC12**	**139631**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	05/28/2017 21:00
MTBE	---	5.0	1	05/28/2017 21:00
Benzene	---	0.50	1	05/28/2017 21:00
Toluene	---	0.50	1	05/28/2017 21:00
Ethylbenzene	---	0.50	1	05/28/2017 21:00
Xylenes	---	1.5	1	05/28/2017 21:00

Surrogates	REC (%)	Limits	
aaa-TFT	107	89-115	05/28/2017 21:00

Analyst(s): IA Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-F	**1705B08-013A**	**Water**	**05/23/2017 10:00**	**GC12**	**139631**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	05/28/2017 21:32
MTBE	---	5.0	1	05/28/2017 21:32
Benzene	---	0.50	1	05/28/2017 21:32
Toluene	---	0.50	1	05/28/2017 21:32
Ethylbenzene	---	0.50	1	05/28/2017 21:32
Xylenes	---	1.5	1	05/28/2017 21:32

Surrogates	REC (%)	Limits	
aaa-TFT	109	89-115	05/28/2017 21:32

Analyst(s): IA Analytical Comments: b1

(Cont.)

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/28/17-5/29/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-G	**1705B08-014A**	**Water**	**05/23/2017 10:40**	**GC3**	**139651**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	05/29/2017 01:49
MTBE	---	5.0	1	05/29/2017 01:49
Benzene	---	0.50	1	05/29/2017 01:49
Toluene	---	0.50	1	05/29/2017 01:49
Ethylbenzene	---	0.50	1	05/29/2017 01:49
Xylenes	---	1.5	1	05/29/2017 01:49

Surrogates	REC (%)	Limits	
aaa-TFT	107	89-115	05/29/2017 01:49

Analyst(s): IA Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-H	**1705B08-015A**	**Water**	**05/23/2017 11:20**	**GC12**	**139631**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	**510**	50	1	05/28/2017 22:04
MTBE	---	5.0	1	05/28/2017 22:04
Benzene	---	0.50	1	05/28/2017 22:04
Toluene	---	0.50	1	05/28/2017 22:04
Ethylbenzene	---	0.50	1	05/28/2017 22:04
Xylenes	---	1.5	1	05/28/2017 22:04

Surrogates	REC (%)	Limits	
aaa-TFT	109	89-115	05/28/2017 22:04

Analyst(s): IA Analytical Comments: d1,b1

(Cont.)

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW5030B
Date Prepared:	5/28/17-5/29/17	**Analytical Method:**	SW8021B/8015Bm
Project:	745 Kevin Ct.	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-I	**1705B08-016A**	**Water**	**05/23/2017 12:53**	**GC3**	**139651**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	05/29/2017 02:19
MTBE	---	5.0	1	05/29/2017 02:19
Benzene	---	0.50	1	05/29/2017 02:19
Toluene	---	0.50	1	05/29/2017 02:19
Ethylbenzene	---	0.50	1	05/29/2017 02:19
Xylenes	---	1.5	1	05/29/2017 02:19

Surrogates	REC (%)	Limits	
aaa-TFT	105	89-115	05/29/2017 02:19

Analyst(s): IA Analytical Comments: b1

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW3550B/3630C
Date Prepared:	5/24/17	**Analytical Method:**	SW8015B
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-E 3.5'	**1705B08-001A**	**Soil**	**05/23/2017 08:25**	**GC9b**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**32**	10	10	05/27/2017 02:28

Surrogates	REC (%)	Limits	
C9	89	78-109	05/27/2017 02:28

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-E 7.5'	**1705B08-002A**	**Soil**	**05/23/2017 08:40**	**GC9b**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/26/2017 20:00

Surrogates	REC (%)	Limits	
C9	93	78-109	05/26/2017 20:00

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-F 3.5'	**1705B08-003A**	**Soil**	**05/23/2017 09:22**	**GC6B**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.8**	2.0	2	05/27/2017 22:06

Surrogates	REC (%)	Limits	
C9	89	78-109	05/27/2017 22:06

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-F 7.5'	**1705B08-004A**	**Soil**	**05/23/2017 09:30**	**GC11A**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**32**	20	20	05/27/2017 07:25

Surrogates	REC (%)	Limits	
C9	103	78-109	05/27/2017 07:25

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

(Cont.)

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Angela Rydelius, Lab Manager

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

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW3550B/3630C
Date Prepared:	5/24/17	**Analytical Method:**	SW8015B
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-G 3.5'	**1705B08-005A**	**Soil**	**05/23/2017 10:20**	**GC6B**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**89**	50	50	05/30/2017 14:46

Surrogates	REC (%)	Limits	
C9	96	78-109	05/30/2017 14:46

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-G 7.5'	**1705B08-006A**	**Soil**	**05/23/2017 10:30**	**GC9b**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/26/2017 21:18

Surrogates	REC (%)	Limits	
C9	92	78-109	05/26/2017 21:18

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-H 3.5'	**1705B08-007A**	**Soil**	**05/23/2017 11:16**	**GC6B**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**58**	20	20	05/27/2017 19:31

Surrogates	REC (%)	Limits	
C9	95	78-109	05/27/2017 19:31

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-H 7.5'	**1705B08-008A**	**Soil**	**05/23/2017 11:22**	**GC9b**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/27/2017 01:10

Surrogates	REC (%)	Limits	
C9	92	78-109	05/27/2017 01:10

Analyst(s): TK

(Cont.)

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

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW3550B/3630C
Date Prepared:	5/24/17	**Analytical Method:**	SW8015B
Project:	745 Kevin Ct.	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-I 3.5'	**1705B08-009A**	**Soil**	**05/23/2017 12:20**	**GC9b**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.5**	1.0	1	05/26/2017 22:35

Surrogates	REC (%)	Limits	
C9	92	78-109	05/26/2017 22:35

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-I 11.5'	**1705B08-011A**	**Soil**	**05/23/2017 12:40**	**GC9b**	**139475**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/26/2017 23:53

Surrogates	REC (%)	Limits	
C9	93	78-109	05/26/2017 23:53

Analyst(s): TK

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW3510C/3630C
Date Prepared:	5/24/17	**Analytical Method:**	SW8015B
Project:	745 Kevin Ct.	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-E	**1705B08-012A**	**Water**	**05/23/2017 09:00**	**GC11A**	**139465**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1500**	1000	20	05/27/2017 09:22

Surrogates	REC (%)	Limits	
C9	107	66-138	05/27/2017 09:22

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-F	**1705B08-013A**	**Water**	**05/23/2017 10:00**	**GC11A**	**139465**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**16,000**	7500	50	05/27/2017 11:20

Surrogates	REC (%)	Limits	
C9	112	66-138	05/27/2017 11:20

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-G	**1705B08-014A**	**Water**	**05/23/2017 10:40**	**GC11A**	**139465**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**5900**	2500	50	05/27/2017 13:19

Surrogates	REC (%)	Limits	
C9	117	66-138	05/27/2017 13:19

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-H	**1705B08-015A**	**Water**	**05/23/2017 11:20**	**GC11B**	**139465**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**6900**	1000	20	05/27/2017 11:20

Surrogates	REC (%)	Limits	
C9	113	66-138	05/27/2017 11:20

Analyst(s): TK Analytical Comments: e7,e2,e4,b1

(Cont.)

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Angela Rydelius, Lab Manager

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

Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Received:	5/24/17 15:25	**Extraction Method:**	SW3510C/3630C
Date Prepared:	5/24/17	**Analytical Method:**	SW8015B
Project:	745 Kevin Ct.	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BH-I	**1705B08-016A**	**Water**	**05/23/2017 12:53**	**GC11A**	**139465**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2500**	1500	10	05/30/2017 17:04

Surrogates	REC (%)	Limits	
C9	96	66-138	05/30/2017 17:04

Analyst(s): TK

Analytical Comments: e7,e2,b1

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

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Prepared:	5/23/17	**BatchID:**	139433
Date Analyzed:	5/25/17 - 5/31/17	**Extraction Method:**	SW5030B
Instrument:	GC19, GC3, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	745 Kevin Ct.	**Sample ID:**	MB/LCS-139433 1705A71-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.519	0.40	0.60	-	86	82-118
MTBE	ND	0.0902	0.050	0.10	-	90	61-119
Benzene	ND	0.104	0.0050	0.10	-	104	77-128
Toluene	ND	0.106	0.0050	0.10	-	106	74-132
Ethylbenzene	ND	0.103	0.0050	0.10	-	103	84-127
Xylenes	ND	0.282	0.015	0.30	-	94	86-129
Surrogate Recovery							
2-Fluorotoluene	0.0943	0.0936		0.10	94	94	75-134

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.525	0.518	0.60	ND	87	86	58-129	1.23	20
MTBE	0.0749	0.0905	0.10	ND	70	85	47-118	18.8	20
Benzene	0.0802	0.0794	0.10	ND	80	79	55-129	0.966	20
Toluene	0.0847	0.0843	0.10	ND	85	84	56-130	0.489	20
Ethylbenzene	0.0896	0.0893	0.10	ND	90	89	63-129	0.258	20
Xylenes	0.280	0.279	0.30	ND	93	93	64-131	0	20
Surrogate Recovery									
2-Fluorotoluene	0.0892	0.0883	0.10		89	88	62-126	1.02	20

(Cont.)

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

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Prepared:	5/31/17	**BatchID:**	139740
Date Analyzed:	6/2/17	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	745 Kevin Ct.	**Sample ID:**	MB/LCS-139740

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.560	0.40	0.60	-	93	82-118
MTBE	ND	0.0930	0.050	0.10	-	93	61-119
Benzene	ND	0.113	0.0050	0.10	-	113	77-128
Toluene	ND	0.118	0.0050	0.10	-	118	74-132
Ethylbenzene	ND	0.117	0.0050	0.10	-	117	84-127
Xylenes	ND	0.333	0.015	0.30	-	111	86-129
Surrogate Recovery							
2-Fluorotoluene	0.09774	0.106		0.10	98	106	75-134

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

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Prepared:	5/28/17	**BatchID:**	139631
Date Analyzed:	5/28/17	**Extraction Method:**	SW5030B
Instrument:	GC12	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	745 Kevin Ct.	**Sample ID:**	MB/LCS-139631 1705997-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	55.2	40	60	-	92	78-116
MTBE	ND	9.52	5.0	10	-	95	72-122
Benzene	ND	9.44	0.50	10	-	94	81-123
Toluene	ND	9.51	0.50	10	-	95	83-129
Ethylbenzene	ND	9.07	0.50	10	-	91	88-126
Xylenes	ND	25.7	1.5	30	-	86, F2	87-131
Surrogate Recovery							
aaa-TFT	10.61	10.5		10	106	105	89-116

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND<8000	NR	NR	-	NR	-
MTBE	NR	NR		ND<1000	NR	NR	-	NR	-
Benzene	NR	NR		1200	NR	NR	-	NR	-
Toluene	NR	NR		810	NR	NR	-	NR	-
Ethylbenzene	NR	NR		340	NR	NR	-	NR	-
Xylenes	NR	NR		3300	NR	NR	-	NR	-
Surrogate Recovery									
aaa-TFT	NR	NR			NR	NR	-	NR	-

(Cont.)

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

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Prepared:	5/28/17	**BatchID:**	139651
Date Analyzed:	5/28/17	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	745 Kevin Ct.	**Sample ID:**	MB/LCS-139651 1705B34-005AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	56.0	40	60	-	93	78-116
MTBE	ND	10.0	5.0	10	-	100	72-122
Benzene	ND	8.86	0.50	10	-	89	81-123
Toluene	ND	9.40	0.50	10	-	94	83-129
Ethylbenzene	ND	9.88	0.50	10	-	99	88-126
Xylenes	ND	31.0	1.5	30	-	103	87-131
Surrogate Recovery							
aaa-TFT	9.969	9.93		10	100	99	89-116

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		120	NR	NR	-	NR	-
MTBE	NR	NR		ND	NR	NR	-	NR	-
Benzene	NR	NR		ND	NR	NR	-	NR	-
Toluene	NR	NR		2.7	NR	NR	-	NR	-
Ethylbenzene	NR	NR		2	NR	NR	-	NR	-
Xylenes	NR	NR		5.2	NR	NR	-	NR	-
Surrogate Recovery									
aaa-TFT	NR	NR			NR	NR	-	NR	-

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

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Prepared:	5/24/17	**BatchID:**	139475
Date Analyzed:	5/25/17	**Extraction Method:**	SW3550B/3630C
Instrument:	GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	745 Kevin Ct.	**Sample ID:**	MB/LCS-139475 1705B08-001AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.0	1.0	40	-	92	79-133
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.86	22.9		25	91	92	77-109

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		32	NR	NR	-	NR	-
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	-

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QA/QC Officer

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

Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1705B08
Date Prepared:	5/24/17	**BatchID:**	139465
Date Analyzed:	5/25/17	**Extraction Method:**	SW3510C/3630C
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	745 Kevin Ct.	**Sample ID:**	MB/LCS/LCSD-139465

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	674.5		625	108	79-111

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1040	989	1000	104	99	88-134	5.01	30
Surrogate Recovery								
C9	690	679	625	110	109	79-111	1.67	30

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QA/QC Officer

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1705B08 **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: 745 Kevin Ct.

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

Requested TAT: **5 days;**

Date Received: **05/24/2017**
Date Logged: **05/24/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1705B08-001	BH-E 3.5'	Soil	5/23/2017 08:25	☐	A		A									
1705B08-002	BH-E 7.5'	Soil	5/23/2017 08:40	☐	A		A									
1705B08-003	BH-F 3.5'	Soil	5/23/2017 09:22	☐	A		A									
1705B08-004	BH-F 7.5'	Soil	5/23/2017 09:30	☐	A		A									
1705B08-005	BH-G 3.5'	Soil	5/23/2017 10:20	☐	A		A									
1705B08-006	BH-G 7.5'	Soil	5/23/2017 10:30	☐	A		A									
1705B08-007	BH-H 3.5'	Soil	5/23/2017 11:16	☐	A		A									
1705B08-008	BH-H 7.5'	Soil	5/23/2017 11:22	☐	A		A									
1705B08-009	BH-I 3.5'	Soil	5/23/2017 12:20	☐	A		A									
1705B08-011	BH-I 11.5'	Soil	5/23/2017 12:40	☐	A		A									
1705B08-012	BH-E	Water	5/23/2017 09:00	☐		A		A								
1705B08-013	BH-F	Water	5/23/2017 10:00	☐		A		A								
1705B08-014	BH-G	Water	5/23/2017 10:40	☐		A		A								
1705B08-015	BH-H	Water	5/23/2017 11:20	☐		A		A								
1705B08-016	BH-I	Water	5/23/2017 12:53	☐		A		A								

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)WSG_S	4	TPH(DMO)WSG_W
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 011A contain testgroup Multi RangeWSG_S.; The following SampIDs: 012A, 013A, 014A, 015A, 016A contain testgroup Multi RangeWSG_W.

Comments:

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

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

WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC. **Project:** 745 Kevin Ct. **Work Order:** 1705B08
Client Contact: Robert Kitay **QC Level:** LEVEL 2
Contact's Email: rkitay@aquascienceengineers.com **Comments:** **Date Logged:** 5/24/2017

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1705B08-001A	BH-E 3.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 8:25	5 days		☐	
1705B08-002A	BH-E 7.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 8:40	5 days		☐	
1705B08-003A	BH-F 3.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 9:22	5 days		☐	
1705B08-004A	BH-F 7.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 9:30	5 days		☐	
1705B08-005A	BH-G 3.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 10:20	5 days		☐	
1705B08-006A	BH-G 7.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 10:30	5 days		☐	
1705B08-007A	BH-H 3.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 11:16	5 days		☐	
1705B08-008A	BH-H 7.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 11:22	5 days		☐	
1705B08-009A	BH-I 3.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 12:20	5 days		☐	
1705B08-010A	BH-I 7.5'	Soil		1	Acetate Liner	☐	5/23/2017 12:30			☑	
1705B08-011A	BH-I 11.5'	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	5/23/2017 12:40	5 days		☐	
1705B08-012A	BH-E	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	5	VOA	☐	5/23/2017 9:00	5 days	25%+	☐	

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.

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:** 745 Kevin Ct. **Work Order:** 1705B08
Client Contact: Robert Kitay **QC Level:** LEVEL 2
Contact's Email: rkitay@aquascienceengineers.com **Comments:** **Date Logged:** 5/24/2017

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1705B08-013A	BH-F	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	VOA	☐	5/23/2017 10:00	5 days	75%+	☐	
1705B08-014A	BH-G	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	5	VOA	☐	5/23/2017 10:40	5 days	35%+	☐	
1705B08-015A	BH-H	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	5	VOA	☐	5/23/2017 11:20	5 days	35%+	☐	
1705B08-016A	BH-I	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	5	VOA	☐	5/23/2017 12:53	5 days	35%+	☐	

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

- 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.

1705B08

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

Chain of Custody

PAGE 1 2

SAMPLER (SIGNATURE) R. E. Kitty

PROJECT NAME 745 Kevin ct JOB NO.

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)	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)	Multi Range Gas + Diesel w/ SGCU	COMPOSITE	EDF	HOLD
BH-E 3.5'	5-23-17	825	S	1														X		X	
BH-E 7.5'		840																X		X	
BH-F 3.5'		922																X		X	
BH-F 7.5'		930																X		X	
BH-G 3.5'		1020																X		X	
BH-G 7.5'		1030																X		X	
BH-H 3.5'		1116																X		X	
BH-H 7.5'		1122																X		X	
BH-I 3.5'		1220																X		X	
BH-I 7.5'	↓	1230	↓	↓														X		X	
																					X

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
R. E. Kitty 951 (signature) (time)	951 (signature) (time)	5-24-17 1430 (signature) (time)	1430 (signature) (time) 1525	
Robert E. Kitty 5-24-17 (printed name) (date)	(printed name) (date)	(printed name) (date)	Jonia Whitney 5/24/17 (printed name) (date)	TURN AROUND TIME
Company-ASE, INC.	Company-	Company-	Company-	STANDARD 24Hr 48Hr 72Hr
				OTHER:

Temp 3.5

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

Chain of Custody

PAGE 2 of 2

SAMPLER (SIGNATURE) Robert E. Kitty

PROJECT NAME 745 Kevin Ct JOB NO.

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)	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)	Multi Range Gas + Diesel W/ SGCU	COMPOSITE	EDF	HOLD
BH-I 11.5'	5-23-17	1240	S	1														X		X	
BH-E	5-23-17	900	W	5																	
BH-F		1000		6														X		X	
BH-G		1040		5														X		X	
BH-H		1120		5														X		X	
BH-I		1253		5														X		X	

RELINQUISHED BY: Robert E. Kitty 951 (signature) (time)
Robert E. Kitty 5-24-17 (printed name) (date)
Company-ASE, INC.

RECEIVED BY: 951 (signature) (time)
(printed name) (date)
Company-

RELINQUISHED BY: 1430 5/24/17 (signature) (time)
(printed name) (date)
Company-

RECEIVED BY LABORATORY: 1430 (signature) (time)
Jeria Whitney 5/24/17 (printed name) (date)
Company-

COMMENTS:

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

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Sample Receipt Checklist

Client Name:	**Aqua Science Engineers, Inc.**	Date and Time Received	**5/24/2017 15:25**
Project Name:	**745 Kevin Ct.**	Date Logged:	**5/24/2017**
		Received by:	Jena Alfaro
WorkOrder №:	**1705B08** Matrix: Soil/Water	Logged by:	Kena Ponce
Carrier:	Benjamin Yslas (MAI Courier)		

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Sample/Temp Blank temperature	Temp: 3.5°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA ☐
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				

UCMR3 Samples:

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

Comments: