Aqua Science Engineers, Inc. 217 Wildflower Drive, Roseville, CA 95678
(925) 820-9391

September 29, 2016

SOIL ASSESSMENT REPORT
ASE JOB NO. 4648

at
243 Morrison Canyon Road
Fremont, California

Prepared by:
AQUA SCIENCE ENGINEERS, INC.
217 Wildflower Drive
Roseville, CA 95678
(925) 820-9391

1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s soil assessment at 243 Morrison Canyon Road Fremont, California (Figure 1). The site assessment activities were initiated by Mr. John Wong of Mission Peak Homes, Inc, as a follow up to the Phase I Environmental Site Assessment prepared for the site dated November 16, 2015.

The Phase I Environmental Site Assessment prepared for the site dated November 16, 2015 listed five Recognized Environmental Conditions (RECs) and Potential Environmental Concerns (PECs). The following describes how each REC/PEC will be addressed:

A) Possibility of Lead-Based Paint and/or Asbestos Containing Materials

ASE discussed this recommendation with Mr. Wong and this portion of the assessment completed by another party prior to demolition. *This PEC is not addressed with the proposed Phase II Environmental Site Assessment*.

B) Possible Fill Material

The assessment of the fill material in the southern portion of the property is addressed in this report.

C) Possible Pesticide/Herbicide Usage

The assessment of the property for contamination related to potential former pesticide and herbicide usage is addressed in this report.

D) Possible Site Contamination Due to Possible Drug Making Chemicals

ASE visited the site and interviewed Tom King via telephone. Mr. King is a neighbor and former policeman. He was the one who first noticed the drug making operation from the distinctive odor from the methanefetamine making operation. He then reported it to the narcotics division who made the drug bust. The drug making operation was over a short period, no more than 2-3 months from the time it was noted until it was shut down. Mr. King also said that all of the drug chemicals at the time of the drug bust were properly handled by a hazmat team. He didn't notice any illegal dumping, odors from chemical dumping or distressed vegetation at that time. He also said that his dogs walked around that property all the time and none showed any ill effects that might have been expected if there was dumping of chemicals on the site. He also stated that there was an off-site drain just east of the site that might have been a likely location should any illegal dumping have taken place. He didn't appear to think that there was any illegal dumping from the operation. Based on this information, there doesn't appear to be any evidence of illegal dumping on the site. If there was some dumping, the impacted are would likely be very small and trying to locate it would be like looking for a needle in a haystack. *For*

this reason, ASE does not recommend any assessment activities related to the former drug lab. If any odorous soil is found during future construction, then an environmental professional should be contacted to address the situation at that time.

E) Inactive Water Well

An inactive water well is located on the property. Records from the Alameda County Water District (ACWD) show this well to be 180-feet deep. They have no other information on this well. Based on ASE's inspection, it appears that the casing is steel and 11-inches in diameter, and still contains a pump. This well will have to be properly destroyed by a licensed driller by perforation of the casing using a Mills knife and filling with cement or by use of explosives. *A separate proposal for the destruction of this well will be prepared shortly.*

2.0 SCOPE OF WORK

The following scope of work addresses concerns B and C listed above. The specific scope of work is as follows:

1) Collect three shallow soil samples within the fill material area.

2) Composite the three samples from the fill material at the state certified laboratory and analyze the composite sample for total petroleum hydrocarbons as gasoline (TPH-G), diesel (TPH-D) and motor oil (TPH-MO), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, herbicides, CAM 17 metals, and PCBs.

3) Collect two shallow soil samples from the field areas (approximately 1 per acre).

4) Analyze each soil sample (2 samples total) at a state certified analytical laboratory for pesticides, herbicides, lead, arsenic and mercury.

5) Prepare a report presenting the methods and findings. This report will also include a description of the research and findings related to the former drug lab.

3.0 NEAR SURFACE SOIL SAMPLING AND ANALYSIS

On August 31, 2016, ASE senior geologist Robert Kitay collected two near surface soil samples (SS-1 and SS-2) from approximately 6-inches below ground surface (bgs). The soil samples were contained in laboratory supplied glass jars, sealed, labeled, placed into an ice chest with wet ice, and transferred to McCampbell Analytical (ELAP certification #1644) of Pittsburg, California under chain-of-custody. The sample locations are shown on Figure 1.

The samples were analyzed for organochlorine pesticides by method 8081A/8982, chlorinated herbicides by 8151A, and arsenic, lead and mercury by method 6020.

The analytical results are tabulated in Table One, and the laboratory analytical report is presented in Appendix A. The results were compared to Environmental Screening Levels (ESLs) established by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated February 2016.

The arsenic concentrations in both samples exceeded the ESL; however, naturally occurring background arsenic concentrations throughout the entire San Francisco Bay Area almost always exceed the ESL. The detected arsenic concentrations are similar to what is expected to be naturally occurring background arsenic concentrations in the Bay Area, and therefore should not be considered an environmental concern.

No herbicides or mercury were detected, and the detected pesticide and lead concentration did not exceed ESLs.

4.0 SOIL SAMPLING AND ANALYSIS OF FILL SOIL

On August 31, 2016, ASE senior geologist Robert Kitay collected soil samples from within what appears to be fill material in the rear of the property using a hand auger. The samples were labeled Fill A, Fill B and Fill C. The soil samples were contained in laboratory supplied glass jars, sealed, labeled, placed into an ice chest with wet ice, and transferred to McCampbell Analytical of Pittsburg, California under chain-of-custody.

The three soil samples were composited by the laboratory into one sample for analysis, and was analyzed for TPH-G, TPH-D and TPH-MO by SW8015, VOCs by SW8260B, SVOCs by SW8270C, organochlorine pesticides by 8081A/8082, chlorinated herbicides by SW81151A, and CAM 17 metals by SW6020.

The analytical results for petroleum hydrocarbons, VOCs, SVOCs, pesticides, and herbicides are tabulated on Table Two, and the analytical results for metals are tabulated in Table Three. The laboratory analytical report and chain of custody record are included in Appendix A.

None of the detected TPH-D, TPH-MO, or metal concentrations (other than arsenic) exceeded an ESL, and no TPH-G, VOCs, SVOCs, pesticides, or herbicides were detected. The arsenic exceeded the ESL; however, naturally occurring background arsenic concentrations throughout the entire San Francisco Bay Area almost always exceed the ESL. The detected arsenic concentration is similar to what is expected to be naturally occurring background arsenic concentrations in the Bay Area, and therefore should not be considered an environmental concern.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Analytical results from the near surface soil sampling showed no indication of pesticide, herbicide, arsenic, lead or mercury at unacceptable concentrations for residential usage.

Analytical results from soil collected from within what appears to be fill material in the rear portion of the site did not show unacceptable concentrations of any metal or compound for residential usage.

Based on these results, ASE does not recommend any further assessment of soil related to former agricultural use or the fill material for the site, and these areas appear suitable for residential usage.

6.0 REPORT LIMITATIONS

The opinions and recommendations 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 the 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.

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: Figure 1
Tables One through Three
Appendix A

Aqua Science Engineers, Inc. 217 Wildflower Drive, Roseville, CA 95678
(925) 820-9391

FIGURE

NORTH

NOT TO SCALE

SAMPLE LOCATION MAP

243 Morrison Canyon Road
Fremont, California

Aqua Science Engineers	Figure 1

Aqua Science Engineers, Inc. 217 Wildflower Drive, Roseville, CA 95678
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TABLES

TABLE ONE

Summary of Analysis of SOIL Samples
Lead, Arsenic, Mercury, Pesticides and Herbicides
243 Morrison Canyon Road, Fremont, California
All results are in **parts per million (ppm)**

Sample Location	Lead	Arsenic	Mercury	p,p-DDE	p,p-DDT	Other Pesticides	Chlorinated Herbicides
SS-1	**39**	**9.4**	< 0.050	**0.0050**	**0.0048**	< 0.0010 - < 0.05	< 1.0 - < 100
SS-2	**27**	**6.6**	< 0.050	**0.0043**	**0.0051**	< 0.0010 - < 0.05	< 1.0 - < 100
ESL (TIER 1)	80	0.067	13	1.9	1.9	varies	varies
ESL (Residential)	80	0.067	13	1.9	1.9	varies	varies
ESL (Commercial)	320	0.31	190	8.5	8.5	varies	varies

Notes:

ESL = Environmental Environmental Screening Level for soil as established by the California Regional Water Quality Control Board, San Francisco Bay Region dated February 2016 (Rev. 3).

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

Detectable concentrations are in Bold.

Concentrations exceeding ESL are boxed.

TABLE TWO

Summary of Analysis of Composite SOIL Samples
Total Petroleum Hudrocarbons, Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Pesticides, Herbicides

243 Morrison Canyon Road, Fremont, California
All results are in **parts per million (ppm)**

Sample Location	TPH Gasoline	TPH Diesel	TPH Motor Oil	Other Pesticides	VOCs	SVOCs	Chlorinated Herbicides
Fill A,B,C	< 1.0	**29**	**550**	< 0.050 - < 2.5	< 0.0050 - < 0.10	< 40 - < 1,000	< 1.0 - < 100
ESL (TIER 1)	100	230	5,100	varies	varies	varies	varies

Notes:

ESL = Environmental Environmental Screening Level for soil as established by the California Regional Water Quality Control Board, San Francisco Bay Region dated February 2016 (Rev. 3).

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

Detectable concentrations are in Bold.

Concentrations exceeding ESL are boxed.

TABLE THREE

Summary of Laboratory Analyses of Composite SOIL Samples
CAM 17 Metals
243 Morrison Canyon Road, Fremont, California
All Results are in **parts per million (ppm)**

Sample	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Fill A,B,C	**0.70**	**8.0**	**130**	< 0.50	**0.56**	**31**	**6.8**	**23**	**26**	< 0.050	**1.6**	**34**	**0.61**	< 0.50	< 0.50	**35**	**74**
ESL	31	0.067	3,000	42	39	1,200,000	23	3,100	80	13	390	86	390	390	0.78	390	23,000

Notes:

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

Detectable concentrations in **bold**

Boxed concentration exceeds ESL

NE = Not established

ESL is theTier I Environmental Screening Level for soil as established by the California Regional Water Quality Control Board, San Francisco Bay Region, February 2016 (Rev. 3).

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APPENDIX A

Certified Laboratory Reports
and
Chain of Custody Documentation

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1609202

Report Created for: Aqua Science Engineers, Inc.

55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Robert Kitay
Project P.O.:
Project Name: 243 Morrison Canyon

Project Received: 09/01/2016

Analytical Report reviewed & approved for release on 09/13/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 243 Morrison Canyon
WorkOrder: 1609202

Glossary Abbreviation

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

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Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 243 Morrison Canyon
WorkOrder: 1609202

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
a3	sample diluted due to high organic content.
a4	reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c7	Surrogate value diluted out of range
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

Quality Control Qualifiers

F3	the surrogate standard recovery and/or RPD is outside of acceptance limits.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B
Date Prepared:	9/6/16	**Analytical Method:**	SW8081A/8082
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC22**	**126167**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.050	50	09/08/2016 04:38
a-BHC	ND	0.050	50	09/08/2016 04:38
b-BHC	ND	0.050	50	09/08/2016 04:38
d-BHC	ND	0.050	50	09/08/2016 04:38
g-BHC	ND	0.050	50	09/08/2016 04:38
Chlordane (Technical)	ND	1.2	50	09/08/2016 04:38
a-Chlordane	ND	0.050	50	09/08/2016 04:38
g-Chlordane	ND	0.050	50	09/08/2016 04:38
p,p-DDD	ND	0.050	50	09/08/2016 04:38
p,p-DDE	ND	0.050	50	09/08/2016 04:38
p,p-DDT	ND	0.050	50	09/08/2016 04:38
Dieldrin	ND	0.050	50	09/08/2016 04:38
Endosulfan I	ND	0.050	50	09/08/2016 04:38
Endosulfan II	ND	0.050	50	09/08/2016 04:38
Endosulfan sulfate	ND	0.050	50	09/08/2016 04:38
Endrin	ND	0.050	50	09/08/2016 04:38
Endrin aldehyde	ND	0.050	50	09/08/2016 04:38
Endrin ketone	ND	0.050	50	09/08/2016 04:38
Heptachlor	ND	0.050	50	09/08/2016 04:38
Heptachlor epoxide	ND	0.050	50	09/08/2016 04:38
Hexachlorobenzene	ND	0.50	50	09/08/2016 04:38
Hexachlorocyclopentadiene	ND	1.0	50	09/08/2016 04:38
Methoxychlor	ND	0.050	50	09/08/2016 04:38
Toxaphene	ND	2.5	50	09/08/2016 04:38
Aroclor1016	ND	2.5	50	09/08/2016 04:38
Aroclor1221	ND	2.5	50	09/08/2016 04:38
Aroclor1232	ND	2.5	50	09/08/2016 04:38
Aroclor1242	ND	2.5	50	09/08/2016 04:38
Aroclor1248	ND	2.5	50	09/08/2016 04:38
Aroclor1254	ND	2.5	50	09/08/2016 04:38
Aroclor1260	ND	2.5	50	09/08/2016 04:38
PCBs, total	ND	2.5	50	09/08/2016 04:38

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	180	S	70-130	09/08/2016 04:38

Analyst(s): CK

Analytical Comments: c7,a3

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B
Date Prepared:	9/6/16	**Analytical Method:**	SW8081A
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-1	**1609202-002A**	**Soil**	**08/31/2016 12:30**	**GC22**	**126167**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	09/08/2016 04:04
a-BHC	ND	0.0010	1	09/08/2016 04:04
b-BHC	ND	0.0010	1	09/08/2016 04:04
d-BHC	ND	0.0010	1	09/08/2016 04:04
g-BHC	ND	0.0010	1	09/08/2016 04:04
Chlordane (Technical)	ND	0.025	1	09/08/2016 04:04
a-Chlordane	ND	0.0010	1	09/08/2016 04:04
g-Chlordane	ND	0.0010	1	09/08/2016 04:04
p,p-DDD	ND	0.0010	1	09/08/2016 04:04
p,p-DDE	**0.0050**	0.0010	1	09/08/2016 04:04
p,p-DDT	**0.0048**	0.0010	1	09/08/2016 04:04
Dieldrin	ND	0.0010	1	09/08/2016 04:04
Endosulfan I	ND	0.0010	1	09/08/2016 04:04
Endosulfan II	ND	0.0010	1	09/08/2016 04:04
Endosulfan sulfate	ND	0.0010	1	09/08/2016 04:04
Endrin	ND	0.0010	1	09/08/2016 04:04
Endrin aldehyde	ND	0.0010	1	09/08/2016 04:04
Endrin ketone	ND	0.0010	1	09/08/2016 04:04
Heptachlor	ND	0.0010	1	09/08/2016 04:04
Heptachlor epoxide	ND	0.0010	1	09/08/2016 04:04
Hexachlorobenzene	ND	0.010	1	09/08/2016 04:04
Hexachlorocyclopentadiene	ND	0.020	1	09/08/2016 04:04
Methoxychlor	ND	0.0010	1	09/08/2016 04:04
Toxaphene	ND	0.050	1	09/08/2016 04:04

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	112	70-130	09/08/2016 04:04

Analyst(s): CK

(Cont.)

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B
Date Prepared:	9/6/16	**Analytical Method:**	SW8081A
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-2	**1609202-003A**	**Soil**	**08/31/2016 13:00**	**GC22**	**126167**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	09/08/2016 05:46
a-BHC	ND	0.0010	1	09/08/2016 05:46
b-BHC	ND	0.0010	1	09/08/2016 05:46
d-BHC	ND	0.0010	1	09/08/2016 05:46
g-BHC	ND	0.0010	1	09/08/2016 05:46
Chlordane (Technical)	ND	0.025	1	09/08/2016 05:46
a-Chlordane	ND	0.0010	1	09/08/2016 05:46
g-Chlordane	ND	0.0010	1	09/08/2016 05:46
p,p-DDD	ND	0.0010	1	09/08/2016 05:46
p,p-DDE	**0.0043**	0.0010	1	09/08/2016 05:46
p,p-DDT	**0.0051**	0.0010	1	09/08/2016 05:46
Dieldrin	ND	0.0010	1	09/08/2016 05:46
Endosulfan I	ND	0.0010	1	09/08/2016 05:46
Endosulfan II	ND	0.0010	1	09/08/2016 05:46
Endosulfan sulfate	ND	0.0010	1	09/08/2016 05:46
Endrin	ND	0.0010	1	09/08/2016 05:46
Endrin aldehyde	ND	0.0010	1	09/08/2016 05:46
Endrin ketone	ND	0.0010	1	09/08/2016 05:46
Heptachlor	ND	0.0010	1	09/08/2016 05:46
Heptachlor epoxide	ND	0.0010	1	09/08/2016 05:46
Hexachlorobenzene	ND	0.010	1	09/08/2016 05:46
Hexachlorocyclopentadiene	ND	0.020	1	09/08/2016 05:46
Methoxychlor	ND	0.0010	1	09/08/2016 05:46
Toxaphene	ND	0.050	1	09/08/2016 05:46

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	104	70-130	09/08/2016 05:46

Analyst(s): CK

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW8151A
Date Prepared:	9/8/16	**Analytical Method:**	SW8151A
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Chlorinated Herbicides by GC-ECD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC15A**	**126285**

Analytes	Result	RL	DF	Date Analyzed
Acifluorfen	ND	1.0	20	09/09/2016 16:47
Bentazon	ND	1.0	20	09/09/2016 16:47
Chloramben	ND	1.0	20	09/09/2016 16:47
2,4-D (Dichlorophenoxyacetic acid)	ND	1.0	20	09/09/2016 16:47
2,4-DB	ND	1.0	20	09/09/2016 16:47
Dalapon	ND	1.0	20	09/09/2016 16:47
DCPA (mono & diacid)	ND	1.0	20	09/09/2016 16:47
Dicamba	ND	1.0	20	09/09/2016 16:47
3,5-Dichlorobenzoic Acid	ND	1.0	20	09/09/2016 16:47
Dichloroprop	ND	1.0	20	09/09/2016 16:47
Dinoseb (DNBP)	ND	1.0	20	09/09/2016 16:47
MCPA	ND	100	20	09/09/2016 16:47
MCPP	ND	100	20	09/09/2016 16:47
4-Nitrophenol	ND	1.0	20	09/09/2016 16:47
Pentachlorophenol (PCP)	ND	1.0	20	09/09/2016 16:47
Picloram	ND	1.0	20	09/09/2016 16:47
2,4,5-T (Trichlorophenoxy acetic acid)	ND	1.0	20	09/09/2016 16:47
2,4,5-TP (Silvex)	ND	1.0	20	09/09/2016 16:47

Surrogates	REC (%)	Limits	
DCAA	102	60-140	09/09/2016 16:47

Analyst(s): DP

Analytical Comments: a1

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW8151A
Date Prepared:	9/8/16	**Analytical Method:**	SW8151A
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Chlorinated Herbicides by GC-ECD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-1	**1609202-002A**	**Soil**	**08/31/2016 12:30**	**GC15A**	**126285**

Analytes	Result	RL	DF	Date Analyzed
Acifluorfen	ND	1.0	20	09/09/2016 17:30
Bentazon	ND	1.0	20	09/09/2016 17:30
Chloramben	ND	1.0	20	09/09/2016 17:30
2,4-D (Dichlorophenoxyacetic acid)	ND	1.0	20	09/09/2016 17:30
2,4-DB	ND	1.0	20	09/09/2016 17:30
Dalapon	ND	1.0	20	09/09/2016 17:30
DCPA (mono & diacid)	ND	1.0	20	09/09/2016 17:30
Dicamba	ND	1.0	20	09/09/2016 17:30
3,5-Dichlorobenzoic Acid	ND	1.0	20	09/09/2016 17:30
Dichloroprop	ND	1.0	20	09/09/2016 17:30
Dinoseb (DNBP)	ND	1.0	20	09/09/2016 17:30
MCPA	ND	100	20	09/09/2016 17:30
MCPP	ND	100	20	09/09/2016 17:30
4-Nitrophenol	ND	1.0	20	09/09/2016 17:30
Pentachlorophenol (PCP)	ND	1.0	20	09/09/2016 17:30
Picloram	ND	1.0	20	09/09/2016 17:30
2,4,5-T (Trichlorophenoxy acetic acid)	ND	1.0	20	09/09/2016 17:30
2,4,5-TP (Silvex)	ND	1.0	20	09/09/2016 17:30

Surrogates	REC (%)	Limits	
DCAA	101	60-140	09/09/2016 17:30

Analyst(s): DP

Analytical Comments: a1

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW8151A
Date Prepared:	9/8/16	**Analytical Method:**	SW8151A
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Chlorinated Herbicides by GC-ECD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-2	**1609202-003A**	**Soil**	**08/31/2016 13:00**	**GC15A**	**126285**

Analytes	Result	RL	DF	Date Analyzed
Acifluorfen	ND	1.0	20	09/09/2016 18:12
Bentazon	ND	1.0	20	09/09/2016 18:12
Chloramben	ND	1.0	20	09/09/2016 18:12
2,4-D (Dichlorophenoxyacetic acid)	ND	1.0	20	09/09/2016 18:12
2,4-DB	ND	1.0	20	09/09/2016 18:12
Dalapon	ND	1.0	20	09/09/2016 18:12
DCPA (mono & diacid)	ND	1.0	20	09/09/2016 18:12
Dicamba	ND	1.0	20	09/09/2016 18:12
3,5-Dichlorobenzoic Acid	ND	1.0	20	09/09/2016 18:12
Dichloroprop	ND	1.0	20	09/09/2016 18:12
Dinoseb (DNBP)	ND	1.0	20	09/09/2016 18:12
MCPA	ND	100	20	09/09/2016 18:12
MCPP	ND	100	20	09/09/2016 18:12
4-Nitrophenol	ND	1.0	20	09/09/2016 18:12
Pentachlorophenol (PCP)	ND	1.0	20	09/09/2016 18:12
Picloram	ND	1.0	20	09/09/2016 18:12
2,4,5-T (Trichlorophenoxy acetic acid)	ND	1.0	20	09/09/2016 18:12
2,4,5-TP (Silvex)	ND	1.0	20	09/09/2016 18:12

Surrogates	REC (%)	Limits	
DCAA	102	60-140	09/09/2016 18:12

Analyst(s): DP

Analytical Comments: a1

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW5030B
Date Prepared:	9/6/16	**Analytical Method:**	SW8260B
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC18**	**126202**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	09/10/2016 14:27
tert-Amyl methyl ether (TAME)	ND	0.0050	1	09/10/2016 14:27
Benzene	ND	0.0050	1	09/10/2016 14:27
Bromobenzene	ND	0.0050	1	09/10/2016 14:27
Bromochloromethane	ND	0.0050	1	09/10/2016 14:27
Bromodichloromethane	ND	0.0050	1	09/10/2016 14:27
Bromoform	ND	0.0050	1	09/10/2016 14:27
Bromomethane	ND	0.0050	1	09/10/2016 14:27
2-Butanone (MEK)	ND	0.020	1	09/10/2016 14:27
t-Butyl alcohol (TBA)	ND	0.050	1	09/10/2016 14:27
n-Butyl benzene	ND	0.0050	1	09/10/2016 14:27
sec-Butyl benzene	ND	0.0050	1	09/10/2016 14:27
tert-Butyl benzene	ND	0.0050	1	09/10/2016 14:27
Carbon Disulfide	ND	0.0050	1	09/10/2016 14:27
Carbon Tetrachloride	ND	0.0050	1	09/10/2016 14:27
Chlorobenzene	ND	0.0050	1	09/10/2016 14:27
Chloroethane	ND	0.0050	1	09/10/2016 14:27
Chloroform	ND	0.0050	1	09/10/2016 14:27
Chloromethane	ND	0.0050	1	09/10/2016 14:27
2-Chlorotoluene	ND	0.0050	1	09/10/2016 14:27
4-Chlorotoluene	ND	0.0050	1	09/10/2016 14:27
Dibromochloromethane	ND	0.0050	1	09/10/2016 14:27
1,2-Dibromo-3-chloropropane	ND	0.0040	1	09/10/2016 14:27
1,2-Dibromoethane (EDB)	ND	0.0040	1	09/10/2016 14:27
Dibromomethane	ND	0.0050	1	09/10/2016 14:27
1,2-Dichlorobenzene	ND	0.0050	1	09/10/2016 14:27
1,3-Dichlorobenzene	ND	0.0050	1	09/10/2016 14:27
1,4-Dichlorobenzene	ND	0.0050	1	09/10/2016 14:27
Dichlorodifluoromethane	ND	0.0050	1	09/10/2016 14:27
1,1-Dichloroethane	ND	0.0050	1	09/10/2016 14:27
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	09/10/2016 14:27
1,1-Dichloroethene	ND	0.0050	1	09/10/2016 14:27
cis-1,2-Dichloroethene	ND	0.0050	1	09/10/2016 14:27
trans-1,2-Dichloroethene	ND	0.0050	1	09/10/2016 14:27
1,2-Dichloropropane	ND	0.0050	1	09/10/2016 14:27
1,3-Dichloropropane	ND	0.0050	1	09/10/2016 14:27
2,2-Dichloropropane	ND	0.0050	1	09/10/2016 14:27

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW5030B
Date Prepared:	9/6/16	**Analytical Method:**	SW8260B
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC18**	**126202**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	09/10/2016 14:27
cis-1,3-Dichloropropene	ND	0.0050	1	09/10/2016 14:27
trans-1,3-Dichloropropene	ND	0.0050	1	09/10/2016 14:27
Diisopropyl ether (DIPE)	ND	0.0050	1	09/10/2016 14:27
Ethylbenzene	ND	0.0050	1	09/10/2016 14:27
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	09/10/2016 14:27
Freon 113	ND	0.0050	1	09/10/2016 14:27
Hexachlorobutadiene	ND	0.0050	1	09/10/2016 14:27
Hexachloroethane	ND	0.0050	1	09/10/2016 14:27
2-Hexanone	ND	0.0050	1	09/10/2016 14:27
Isopropylbenzene	ND	0.0050	1	09/10/2016 14:27
4-Isopropyl toluene	ND	0.0050	1	09/10/2016 14:27
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	09/10/2016 14:27
Methylene chloride	ND	0.0050	1	09/10/2016 14:27
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	09/10/2016 14:27
Naphthalene	ND	0.0050	1	09/10/2016 14:27
n-Propyl benzene	ND	0.0050	1	09/10/2016 14:27
Styrene	ND	0.0050	1	09/10/2016 14:27
1,1,1,2-Tetrachloroethane	ND	0.0050	1	09/10/2016 14:27
1,1,2,2-Tetrachloroethane	ND	0.0050	1	09/10/2016 14:27
Tetrachloroethene	ND	0.0050	1	09/10/2016 14:27
Toluene	ND	0.0050	1	09/10/2016 14:27
1,2,3-Trichlorobenzene	ND	0.0050	1	09/10/2016 14:27
1,2,4-Trichlorobenzene	ND	0.0050	1	09/10/2016 14:27
1,1,1-Trichloroethane	ND	0.0050	1	09/10/2016 14:27
1,1,2-Trichloroethane	ND	0.0050	1	09/10/2016 14:27
Trichloroethene	ND	0.0050	1	09/10/2016 14:27
Trichlorofluoromethane	ND	0.0050	1	09/10/2016 14:27
1,2,3-Trichloropropane	ND	0.0050	1	09/10/2016 14:27
1,2,4-Trimethylbenzene	ND	0.0050	1	09/10/2016 14:27
1,3,5-Trimethylbenzene	ND	0.0050	1	09/10/2016 14:27
Vinyl Chloride	ND	0.0050	1	09/10/2016 14:27
Xylenes, Total	ND	0.0050	1	09/10/2016 14:27

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW5030B
Date Prepared:	9/6/16	**Analytical Method:**	SW8260B
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC18**	**126202**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	96	70-130		09/10/2016 14:27
Toluene-d8	118	70-130		09/10/2016 14:27
4-BFB	100	70-130		09/10/2016 14:27
Benzene-d6	90	60-140		09/10/2016 14:27
Ethylbenzene-d10	98	60-140		09/10/2016 14:27
1,2-DCB-d4	80	60-140		09/10/2016 14:27

Analyst(s): MW

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B
Date Prepared:	9/8/16	**Analytical Method:**	SW8270C
Project:	243 Morrison Canyon	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC17**	**126266**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	40	20	09/08/2016 22:05
Acenaphthylene	ND	40	20	09/08/2016 22:05
Acetochlor	ND	40	20	09/08/2016 22:05
Anthracene	ND	40	20	09/08/2016 22:05
Benzidine	ND	210	20	09/08/2016 22:05
Benzo (a) anthracene	ND	40	20	09/08/2016 22:05
Benzo (a) pyrene	ND	40	20	09/08/2016 22:05
Benzo (b) fluoranthene	ND	40	20	09/08/2016 22:05
Benzo (g,h,i) perylene	ND	40	20	09/08/2016 22:05
Benzo (k) fluoranthene	ND	40	20	09/08/2016 22:05
Benzyl Alcohol	ND	210	20	09/08/2016 22:05
1,1-Biphenyl	ND	40	20	09/08/2016 22:05
Bis (2-chloroethoxy) Methane	ND	40	20	09/08/2016 22:05
Bis (2-chloroethyl) Ether	ND	40	20	09/08/2016 22:05
Bis (2-chloroisopropyl) Ether	ND	40	20	09/08/2016 22:05
Bis (2-ethylhexyl) Adipate	ND	40	20	09/08/2016 22:05
Bis (2-ethylhexyl) Phthalate	ND	40	20	09/08/2016 22:05
4-Bromophenyl Phenyl Ether	ND	40	20	09/08/2016 22:05
Butylbenzyl Phthalate	ND	40	20	09/08/2016 22:05
4-Chloroaniline	ND	80	20	09/08/2016 22:05
4-Chloro-3-methylphenol	ND	40	20	09/08/2016 22:05
2-Chloronaphthalene	ND	40	20	09/08/2016 22:05
2-Chlorophenol	ND	40	20	09/08/2016 22:05
4-Chlorophenyl Phenyl Ether	ND	40	20	09/08/2016 22:05
Chrysene	ND	40	20	09/08/2016 22:05
Dibenzo (a,h) anthracene	ND	40	20	09/08/2016 22:05
Dibenzofuran	ND	40	20	09/08/2016 22:05
Di-n-butyl Phthalate	ND	40	20	09/08/2016 22:05
1,2-Dichlorobenzene	ND	40	20	09/08/2016 22:05
1,3-Dichlorobenzene	ND	40	20	09/08/2016 22:05
1,4-Dichlorobenzene	ND	40	20	09/08/2016 22:05
3,3-Dichlorobenzidine	ND	80	20	09/08/2016 22:05
2,4-Dichlorophenol	ND	40	20	09/08/2016 22:05
Diethyl Phthalate	ND	40	20	09/08/2016 22:05
2,4-Dimethylphenol	ND	40	20	09/08/2016 22:05
Dimethyl Phthalate	ND	40	20	09/08/2016 22:05
4,6-Dinitro-2-methylphenol	ND	210	20	09/08/2016 22:05

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B
Date Prepared:	9/8/16	**Analytical Method:**	SW8270C
Project:	243 Morrison Canyon	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC17**	**126266**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	1000	20	09/08/2016 22:05
2,4-Dinitrotoluene	ND	40	20	09/08/2016 22:05
2,6-Dinitrotoluene	ND	40	20	09/08/2016 22:05
Di-n-octyl Phthalate	ND	80	20	09/08/2016 22:05
1,2-Diphenylhydrazine	ND	40	20	09/08/2016 22:05
Fluoranthene	ND	40	20	09/08/2016 22:05
Fluorene	ND	40	20	09/08/2016 22:05
Hexachlorobenzene	ND	40	20	09/08/2016 22:05
Hexachlorobutadiene	ND	40	20	09/08/2016 22:05
Hexachlorocyclopentadiene	ND	210	20	09/08/2016 22:05
Hexachloroethane	ND	40	20	09/08/2016 22:05
Indeno (1,2,3-cd) pyrene	ND	40	20	09/08/2016 22:05
Isophorone	ND	40	20	09/08/2016 22:05
2-Methylnaphthalene	ND	40	20	09/08/2016 22:05
2-Methylphenol (o-Cresol)	ND	40	20	09/08/2016 22:05
3 & 4-Methylphenol (m,p-Cresol)	ND	40	20	09/08/2016 22:05
Naphthalene	ND	40	20	09/08/2016 22:05
2-Nitroaniline	ND	210	20	09/08/2016 22:05
3-Nitroaniline	ND	210	20	09/08/2016 22:05
4-Nitroaniline	ND	210	20	09/08/2016 22:05
Nitrobenzene	ND	40	20	09/08/2016 22:05
2-Nitrophenol	ND	210	20	09/08/2016 22:05
4-Nitrophenol	ND	210	20	09/08/2016 22:05
N-Nitrosodiphenylamine	ND	40	20	09/08/2016 22:05
N-Nitrosodi-n-propylamine	ND	40	20	09/08/2016 22:05
Pentachlorophenol	ND	210	20	09/08/2016 22:05
Phenanthrene	ND	40	20	09/08/2016 22:05
Phenol	ND	40	20	09/08/2016 22:05
Pyrene	ND	40	20	09/08/2016 22:05
1,2,4-Trichlorobenzene	ND	40	20	09/08/2016 22:05
2,4,5-Trichlorophenol	ND	40	20	09/08/2016 22:05
2,4,6-Trichlorophenol	ND	40	20	09/08/2016 22:05

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B
Date Prepared:	9/8/16	**Analytical Method:**	SW8270C
Project:	243 Morrison Canyon	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC17**	**126266**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorophenol	137	S	30-130	09/08/2016 22:05
Phenol-d5	115		30-130	09/08/2016 22:05
Nitrobenzene-d5	118		30-130	09/08/2016 22:05
2-Fluorobiphenyl	105		30-130	09/08/2016 22:05
2,4,6-Tribromophenol	50		16-130	09/08/2016 22:05
4-Terphenyl-d14	118		30-130	09/08/2016 22:05

Analyst(s): REB

Analytical Comments: a3,a4,c1

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3050B
Date Prepared:	9/6/16	**Analytical Method:**	SW6020
Project:	243 Morrison Canyon	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**ICP-MS3**	**126198**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**0.70**	0.50	1	09/08/2016 01:18
Arsenic	**8.0**	0.50	1	09/08/2016 01:18
Barium	**130**	5.0	1	09/08/2016 01:18
Beryllium	ND	0.50	1	09/08/2016 01:18
Cadmium	**0.56**	0.25	1	09/08/2016 01:18
Chromium	**31**	0.50	1	09/08/2016 01:18
Cobalt	**6.8**	0.50	1	09/08/2016 01:18
Copper	**23**	0.50	1	09/08/2016 01:18
Lead	**26**	0.50	1	09/08/2016 01:18
Mercury	ND	0.050	1	09/08/2016 01:18
Molybdenum	**1.6**	0.50	1	09/08/2016 01:18
Nickel	**34**	0.50	1	09/08/2016 01:18
Selenium	**0.61**	0.50	1	09/08/2016 01:18
Silver	ND	0.50	1	09/08/2016 01:18
Thallium	ND	0.50	1	09/08/2016 01:18
Vanadium	**35**	0.50	1	09/08/2016 01:18
Zinc	**74**	5.0	1	09/08/2016 01:18

Surrogates	REC (%)	Limits	
Terbium	96	70-130	09/08/2016 01:18

Analyst(s): DVH

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW5030B
Date Prepared:	9/6/16	**Analytical Method:**	SW8021B/8015Bm
Project:	243 Morrison Canyon	**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
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC3**	**126194**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/12/2016 14:47
MTBE	---	0.050	1	09/12/2016 14:47
Benzene	---	0.0050	1	09/12/2016 14:47
Toluene	---	0.0050	1	09/12/2016 14:47
Ethylbenzene	---	0.0050	1	09/12/2016 14:47
Xylenes	---	0.015	1	09/12/2016 14:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	104	70-130	09/12/2016 14:47

Analyst(s): IA

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3050B
Date Prepared:	9/6/16	**Analytical Method:**	SW6020
Project:	243 Morrison Canyon	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-1	**1609202-002A**	**Soil**	**08/31/2016 12:30**	**ICP-MS3**	**126198**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**9.4**	0.50	1	09/08/2016 01:43
Lead	**39**	0.50	1	09/08/2016 01:43
Mercury	ND	0.050	1	09/08/2016 01:43

Surrogates	REC (%)	Limits	
Terbium	99	70-130	09/08/2016 01:43

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-2	**1609202-003A**	**Soil**	**08/31/2016 13:00**	**ICP-MS3**	**126198**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**6.6**	0.50	1	09/08/2016 01:49
Lead	**27**	0.50	1	09/08/2016 01:49
Mercury	ND	0.050	1	09/08/2016 01:49

Surrogates	REC (%)	Limits	
Terbium	94	70-130	09/08/2016 01:49

Analyst(s): DVH

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Analytical Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Received:	9/1/16 16:21	**Extraction Method:**	SW3550B/3630C
Date Prepared:	9/6/16	**Analytical Method:**	SW8015B
Project:	243 Morrison Canyon	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Fill A,B,C	**1609202-001A**	**Soil**	**08/31/2016 12:10**	**GC11A**	**126190**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**29**	10	10	09/08/2016 05:46
TPH-Motor Oil (C18-C36)	**550**	50	10	09/08/2016 05:46

Surrogates	REC (%)	Limits	
C9	81	70-130	09/08/2016 05:46

Analyst(s): TK

Analytical Comments: e7,e2

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Angela Rydelius, Lab Manager

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126167
Date Analyzed:	9/8/16	**Extraction Method:**	SW3550B
Instrument:	GC22	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126167 1609156-005AMS/MSD

QC Summary Report for SW8081A/8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0428	0.0010	0.050	-	86	70-130
a-BHC	ND	-	0.0010	-	-	-	-
b-BHC	ND	-	0.0010	-	-	-	-
d-BHC	ND	-	0.0010	-	-	-	-
g-BHC	ND	0.0446	0.0010	0.050	-	89	70-130
Chlordane (Technical)	ND	-	0.025	-	-	-	-
a-Chlordane	ND	-	0.0010	-	-	-	-
g-Chlordane	ND	-	0.0010	-	-	-	-
p,p-DDD	ND	-	0.0010	-	-	-	-
p,p-DDE	ND	-	0.0010	-	-	-	-
p,p-DDT	ND	0.0495	0.0010	0.050	-	99	70-130
Dieldrin	ND	0.0503	0.0010	0.050	-	101	70-130
Endosulfan I	ND	-	0.0010	-	-	-	-
Endosulfan II	ND	-	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.0010	-	-	-	-
Endrin	ND	0.0436	0.0010	0.050	-	87	70-130
Endrin aldehyde	ND	-	0.0010	-	-	-	-
Endrin ketone	ND	-	0.0010	-	-	-	-
Heptachlor	ND	0.0503	0.0010	0.050	-	101	70-130
Heptachlor epoxide	ND	-	0.0010	-	-	-	-
Hexachlorobenzene	ND	-	0.010	-	-	-	-
Hexachlorocyclopentadiene	ND	-	0.020	-	-	-	-
Methoxychlor	ND	-	0.0010	-	-	-	-
Toxaphene	ND	-	0.050	-	-	-	-
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	-	0.050	-	-	-	-
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0556	0.0576		0.050	111	115	70-130

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126167
Date Analyzed:	9/8/16	**Extraction Method:**	SW3550B
Instrument:	GC22	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126167 1609156-005AMS/MSD

QC Summary Report for SW8081A/8082

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	0.0490	0.0426	0.050	ND	98	85	70-130	14.1	20
g-BHC	0.0507	0.0441	0.050	ND	101	88	70-130	13.8	20
p,p-DDT	0.0547	0.0474	0.050	ND	109	95	70-130	14.3	20
Dieldrin	0.0561	0.0488	0.050	ND	112	98	70-130	13.9	20
Endrin	0.0498	0.0436	0.050	ND	100	87	70-130	13.2	20
Heptachlor	0.0588	0.0511	0.050	ND	118	102	70-130	14.1	20
Surrogate Recovery									
Decachlorobiphenyl	0.0513	0.0532	0.050		103	106	70-130	3.69	20

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126167
Date Analyzed:	9/8/16	**Extraction Method:**	SW3550B
Instrument:	GC22	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126167 1609156-005AMS/MSD

QC Summary Report for SW8081A

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0428	0.0010	0.050	-	86	70-130
a-BHC	ND	-	0.0010	-	-	-	-
b-BHC	ND	-	0.0010	-	-	-	-
d-BHC	ND	-	0.0010	-	-	-	-
g-BHC	ND	0.0446	0.0010	0.050	-	89	70-130
Chlordane (Technical)	ND	-	0.025	-	-	-	-
a-Chlordane	ND	-	0.0010	-	-	-	-
g-Chlordane	ND	-	0.0010	-	-	-	-
p,p-DDD	ND	-	0.0010	-	-	-	-
p,p-DDE	ND	-	0.0010	-	-	-	-
p,p-DDT	ND	0.0495	0.0010	0.050	-	99	70-130
Dieldrin	ND	0.0503	0.0010	0.050	-	101	70-130
Endosulfan I	ND	-	0.0010	-	-	-	-
Endosulfan II	ND	-	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.0010	-	-	-	-
Endrin	ND	0.0436	0.0010	0.050	-	87	70-130
Endrin aldehyde	ND	-	0.0010	-	-	-	-
Endrin ketone	ND	-	0.0010	-	-	-	-
Heptachlor	ND	0.0503	0.0010	0.050	-	101	70-130
Heptachlor epoxide	ND	-	0.0010	-	-	-	-
Hexachlorobenzene	ND	-	0.010	-	-	-	-
Hexachlorocyclopentadiene	ND	-	0.020	-	-	-	-
Methoxychlor	ND	-	0.0010	-	-	-	-
Toxaphene	ND	-	0.050	-	-	-	-
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	-	0.050	-	-	-	-
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0556	0.0576		0.050	111	115	70-130

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126167
Date Analyzed:	9/8/16	**Extraction Method:**	SW3550B
Instrument:	GC22	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126167 1609156-005AMS/MSD

QC Summary Report for SW8081A

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	0.0490	0.0426	0.050	ND	98	85	70-130	14.1	20
g-BHC	0.0507	0.0441	0.050	ND	101	88	70-130	13.8	20
p,p-DDT	0.0547	0.0474	0.050	ND	109	95	70-130	14.3	20
Dieldrin	0.0561	0.0488	0.050	ND	112	98	70-130	13.9	20
Endrin	0.0498	0.0436	0.050	ND	100	87	70-130	13.2	20
Heptachlor	0.0588	0.0511	0.050	ND	118	102	70-130	14.1	20
Surrogate Recovery									
Decachlorobiphenyl	0.0513	0.0532	0.050		103	106	70-130	3.69	20

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/8/16	**BatchID:**	126285
Date Analyzed:	9/9/16	**Extraction Method:**	SW8151A
Instrument:	GC15A	**Analytical Method:**	SW8151A
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126285 1609202-003AMS/MSD

QC Summary Report for SW8151A

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acifluorfen	ND	-	0.050	-	-	-	-
Bentazon	ND	-	0.050	-	-	-	-
Chloramben	ND	-	0.050	-	-	-	-
2,4-D (Dichlorophenoxyacetic acid)	ND	0.0903	0.050	0.10	-	90	60-140
2,4-DB	ND	0.0982	0.050	0.10	-	98	60-140
Dalapon	ND	0.0916	0.050	0.10	-	92	60-140
DCPA (mono & diacid)	ND	-	0.050	-	-	-	-
Dicamba	ND	0.0905	0.050	0.10	-	90	60-140
3,5-Dichlorobenzoic Acid	ND	-	0.050	-	-	-	-
Dichloroprop	ND	-	0.050	-	-	-	-
Dinoseb (DNBP)	ND	-	0.050	-	-	-	-
MCPA	ND	-	5.0	-	-	-	-
MCPP	ND	-	5.0	-	-	-	-
4-Nitrophenol	ND	-	0.050	-	-	-	-
Pentachlorophenol (PCP)	ND	-	0.050	-	-	-	-
Picloram	ND	-	0.050	-	-	-	-
2,4,5-T (Trichlorophenoxy acetic acid)	ND	-	0.050	-	-	-	-
2,4,5-TP (Silvex)	ND	0.0926	0.050	0.10	-	93	60-140
Surrogate Recovery							
DCAA	0.0964	0.100		0.10	96	100	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
2,4-D (Dichlorophenoxyacetic acid)	NR	NR		ND<1	NR	NR	-	NR	
2,4-DB	NR	NR		ND<1	NR	NR	-	NR	
Dalapon	NR	NR		ND<1	NR	NR	-	NR	
Dicamba	NR	NR		ND<1	NR	NR	-	NR	
2,4,5-TP (Silvex)	NR	NR		ND<1	NR	NR	-	NR	
Surrogate Recovery									
DCAA	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126202
Date Analyzed:	9/7/16	**Extraction Method:**	SW5030B
Instrument:	GC16, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126202 1609185-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0385	0.0050	0.050	-	77	53-116
Benzene	ND	0.0440	0.0050	0.050	-	88	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	0.165	0.050	0.20	-	82	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	0.0514	0.0050	0.050	-	103	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	0.0480	0.0040	0.050	-	96	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	0.0415	0.0040	0.050	-	83	58-135
1,1-Dichloroethene	ND	0.0507	0.0050	0.050	-	101	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126202
Date Analyzed:	9/7/16	**Extraction Method:**	SW5030B
Instrument:	GC16, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126202 1609185-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0415	0.0050	0.050	-	83	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0401	0.0050	0.050	-	80	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	0.0410	0.0050	0.050	-	82	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	0.0564	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	0.0511	0.0050	0.050	-	102	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	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126202
Date Analyzed:	9/7/16	**Extraction Method:**	SW5030B
Instrument:	GC16, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126202 1609185-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.123	0.124		0.12	98	99	70-130
Toluene-d8	0.147	0.150		0.12	118	120	70-130
4-BFB	0.0128	0.0138		0.012	102	110	70-130
Benzene-d6	0.110	0.105		0.10	110	105	60-140
Ethylbenzene-d10	0.119	0.125		0.10	119	125	60-140
1,2-DCB-d4	0.0778	0.0949		0.10	78	95	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)	0.0495	0.0531	0.050	ND	99	106	53-116	7.07	20
Benzene	0.0551	0.0567	0.050	ND	110	113	63-137	2.96	20
t-Butyl alcohol (TBA)	0.217	0.232	0.20	ND	109	116	41-135	6.84	20
Chlorobenzene	0.0532	0.0550	0.050	ND	106	110	77-121	3.34	20
1,2-Dibromoethane (EDB)	0.0508	0.0542	0.050	ND	102	108	67-119	6.56	20
1,2-Dichloroethane (1,2-DCA)	0.0524	0.0554	0.050	ND	105	111	58-135	5.42	20
1,1-Dichloroethene	0.0523	0.0545	0.050	ND	105	109	42-145	4.12	20
Diisopropyl ether (DIPE)	0.0531	0.0559	0.050	ND	106	112	52-129	5.00	20
Ethyl tert-butyl ether (ETBE)	0.0519	0.0553	0.050	ND	104	111	53-125	6.41	20
Methyl-t-butyl ether (MTBE)	0.0496	0.0530	0.050	ND	99	106	58-122	6.74	20
Toluene	0.0605	0.0622	0.050	ND	121	124	76-130	2.77	20
Trichloroethene	0.0521	0.0534	0.050	ND	104	107	72-132	2.42	20
Surrogate Recovery									
Dibromofluoromethane	0.123	0.126	0.12		98	100	70-130	2.24	20
Toluene-d8	0.141	0.140	0.12		113	112	70-130	0.437	20
4-BFB	0.0152	0.0152	0.012		122	121	70-130	0.609	20
Benzene-d6	0.114	0.114	0.10		114	114	60-140	0	20
Ethylbenzene-d10	0.138	0.142	0.10		138	142,F3	60-140	2.47	20
1,2-DCB-d4	0.0900	0.0951	0.10		90	95	60-140	5.51	20

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/7/16	**BatchID:**	126266
Date Analyzed:	9/7/16	**Extraction Method:**	SW3550B
Instrument:	GC17	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126266

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	5.05	0.25	5	-	101	46-118
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	5.44	0.25	5	-	109	49-123
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.14	0.25	5	-	103	55-116
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.38	0.25	5	-	88	50-102
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/7/16	**BatchID:**	126266
Date Analyzed:	9/7/16	**Extraction Method:**	SW3550B
Instrument:	GC17	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126266

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	5.35	0.25	5	-	107	47-117
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.55	1.3	5	-	91	40-102
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	4.99	0.25	5	-	100	47-108
Pentachlorophenol	ND	4.91	1.3	5	-	98	39-134
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	4.76	0.25	5	-	95	49-107
Pyrene	ND	4.90	0.25	5	-	98	55-124
1,2,4-Trichlorobenzene	ND	5.09	0.25	5	-	102	51-121
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/7/16	**BatchID:**	126266
Date Analyzed:	9/7/16	**Extraction Method:**	SW3550B
Instrument:	GC17	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126266

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	5.24	5.27		5	105	105	47-125
Phenol-d5	5.00	5.13		5	100	103	45-117
Nitrobenzene-d5	4.58	5.02		5	92	100	39-121
2-Fluorobiphenyl	4.41	4.96		5	88	99	35-120
2,4,6-Tribromophenol	3.87	4.83		5	77	97	32-111
4-Terphenyl-d14	4.54	4.63		5	91	93	32-128

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126198
Date Analyzed:	9/7/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126198 1609176-001AMS/MSD 1609176-001APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	54.4	0.50	50	-	109	75-125
Arsenic	ND	56.0	0.50	50	-	112	75-125
Barium	ND	558	5.0	500	-	112	75-125
Beryllium	ND	52.8	0.50	50	-	106	75-125
Cadmium	ND	53.3	0.25	50	-	107	75-125
Chromium	ND	54.4	0.50	50	-	109	75-125
Cobalt	ND	52.9	0.50	50	-	106	75-125
Copper	ND	54.9	0.50	50	-	110	75-125
Lead	ND	52.6	0.50	50	-	105	75-125
Mercury	ND	1.32	0.050	1.25	-	105	75-125
Molybdenum	ND	49.4	0.50	50	-	99	75-125
Nickel	ND	54.6	0.50	50	-	109	75-125
Selenium	ND	54.4	0.50	50	-	109	75-125
Silver	ND	52.2	0.50	50	-	104	75-125
Thallium	ND	53.9	0.50	50	-	108	75-125
Vanadium	ND	54.2	0.50	50	-	108	75-125
Zinc	ND	553	5.0	500	-	111	75-125
Surrogate Recovery							
Terbium	578	586		500	116	117	70-130

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126198
Date Analyzed:	9/7/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126198 1609176-001AMS/MSD 1609176-001APDS

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	52.9	53.4	50	ND	105	106	75-125	0.828	20
Arsenic	59.7	59.3	50	4.434	111	110	75-125	0.723	20
Barium	721	735	500	133.3	117	120	75-125	1.95	20
Beryllium	50.8	50.1	50	ND	101	100	75-125	1.33	20
Cadmium	53.5	52.6	50	ND	107	105	75-125	1.58	20
Chromium	97.6	98.5	50	34.40	126,F10	128,F10	75-125	0.877	20
Cobalt	58.8	59.8	50	8.324	101	103	75-125	1.67	20
Copper	84.4	83.5	50	22.95	123	121	75-125	1.16	20
Lead	66.0	70.4	50	12.00	108	117	75-125	6.47	20
Mercury	1.32	1.32	1.25	ND	104	103	75-125	0.607	20
Molybdenum	49.0	49.6	50	ND	98	99	75-125	1.24	20
Nickel	88.6	85.7	50	24.90	127,F10	122	75-125	3.37	20
Selenium	53.5	52.7	50	ND	107	105	75-125	1.41	20
Silver	52.0	53.0	50	ND	104	106	75-125	1.85	20
Thallium	53.8	54.2	50	ND	108	108	75-125	0	20
Vanadium	124	128	50	59.28	129,F10	137,F10	75-125	3.26	20
Zinc	600	597	500	45.31	111	110	75-125	0.468	20
Surrogate Recovery									
Terbium	574	584	500		115	117	70-130	1.64	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	84.8	50	34.40	101	75-125
Nickel	75.2	50	24.90	101	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	-	-
Arsenic	4.04	4.434	8.89	-
Barium	131	133.3	1.73	20
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	35.4	34.40	2.91	20
Cobalt	8.64	8.324	3.80	-

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126198
Date Analyzed:	9/7/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126198 1609176-001AMS/MSD 1609176-001APDS

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Copper	23.0	22.95	0.218	20
Lead	11.8	12.00	1.67	-
Mercury	ND<0.25	ND	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	25.3	24.90	1.61	20
Selenium	ND<2.5	ND	-	-
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	60.8	59.28	2.56	20
Zinc	47.2	45.31	4.17	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126194
Date Analyzed:	9/7/16	**Extraction Method:**	SW5030B
Instrument:	GC19, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126194 1609232-001AMS/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	0.593	0.40	0.60	-	99	70-130
MTBE	ND	0.0878	0.050	0.10	-	88	70-130
Benzene	ND	0.100	0.0050	0.10	-	100	70-130
Toluene	ND	0.108	0.0050	0.10	-	108	70-130
Ethylbenzene	ND	0.113	0.0050	0.10	-	113	70-130
Xylenes	ND	0.341	0.015	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.113	0.112		0.10	113	112	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		380	NR	NR	-	NR	
MTBE	NR	NR		ND<10	NR	NR	-	NR	
Benzene	NR	NR		ND<1	NR	NR	-	NR	
Toluene	NR	NR		1.8	NR	NR	-	NR	
Ethylbenzene	NR	NR		97	NR	NR	-	NR	
Xylenes	NR	NR		12	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126198
Date Analyzed:	9/7/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126198 1609176-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	56.0	0.50	50	-	112	75-125
Lead	ND	52.6	0.50	50	-	105	75-125
Mercury	ND	1.32	0.050	1.25	-	105	75-125
Surrogate Recovery							
Terbium	578	586		500	116	117	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	59.7	59.3	50	4.434	111	110	75-125	0.723	20
Lead	66.0	70.4	50	12.00	108	117	75-125	6.47	20
Mercury	1.32	1.32	1.25	ND	104	103	75-125	0.607	20
Surrogate Recovery									
Terbium	574	584	500		115	117	70-130	1.64	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	4.04	4.434	8.89	-
Lead	11.8	12.00	1.67	-
Mercury	ND<0.25	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	Aqua Science Engineers, Inc.	**WorkOrder:**	1609202
Date Prepared:	9/6/16	**BatchID:**	126190
Date Analyzed:	9/7/16	**Extraction Method:**	SW3550B/3630C
Instrument:	GC11A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	243 Morrison Canyon	**Sample ID:**	MB/LCS-126190 1609172-001AMS/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	38.7	1.0	40	-	97	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	19.9	20.6		25	80	82	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		8.7	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1609202 **ClientCode: ASED**

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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: 243 Morrison Canyon

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

Requested TAT: 5 days;

Date Received: 09/01/2016
Date Logged: 09/06/2016

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
1609202-001	Fill A,B,C	Soil	8/31/2016 12:10	☐		A	A	A	A	A	A		A			
1609202-002	SS-1	Soil	8/31/2016 12:30	☐	A		A					A				
1609202-003	SS-2	Soil	8/31/2016 13:00	☐	A		A					A				

Test Legend:

1	8081_S	2	8081PCB_S	3	8151_S	4	8260B_S
5	8270_S	6	CAM17MS_TTLC_S	7	G-MBTEX_S	8	METALSMS_TTLC_S
9	TPH(DMO)WSG_S	10		11		12	

Prepared by: Agustina Venegas

The following SampID: 001A contains testgroup Multi RangeWSG_S.

Comments: Taken off hold 9/6/16 per email.

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.
QC Level: LEVEL 2
Work Order: 1609202
Project: 243 Morrison Canyon
Client Contact: Robert Kitay
Date Logged: 9/6/2016
Comments: Taken off hold 9/6/16 per email.
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
1609202-001A	Fill A,B,C	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	3 / (3:1)	8OZ aG Jar	☐	8/31/2016 12:10	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
			SW8151A (Chlorinated Herbicides)			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs)			☐		5 days		☐	
1609202-002A	SS-1	Soil	SW6020 (Metals) <Arsenic, Lead, Mercury>	1	4OZ aGJ	☐	8/31/2016 12:30	5 days		☐	
			SW8151A (Chlorinated Herbicides)			☐		5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1609202-003A	SS-2	Soil	SW6020 (Metals) <Arsenic, Lead, Mercury>	1	4OZ aGJ	☐	8/31/2016 13:00	5 days		☐	
			SW8151A (Chlorinated Herbicides)			☐		5 days		☐	
			SW8081A (OC Pesticides)			☐		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.

General COC

MAI Work Order # 1609202

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CHAIN OF CUSTODY RECORD

Turn Around Time:	1 Day Rush		2 Day Rush		3 Day Rush		STD		Quote #				
J-Flag / MDL		ESL		Cleanup Approved					Bottle Order #				
Delivery Format:	GeoTracker EDF		PDF		EDD		Write On (DW)		EQuIS				

Report To: Robert Kitay Bill To: Robert Kitay
Company: Agua Science Engineers
Email: rKitay@aquasciencengineers.com
Email: Tele: 925-413-8604
Project Name/#: 243 Morrison Canyon
Project Location: 243 Morrison Canyon, Fremont PO #
Sampler Signature: Robert E. Kitay

Analysis Requested

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	~~BTEX~~ & TPH as Gas (8021/ 8015) ~~MTBE~~	TPH as Diesel (8015) + Motor Oil	Oil & Grease Total Petroleum (1664 / 9071)	Oil & Grease Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020) AS, Pb, Hg	Baylands Requirements	Lab to filter sample for dissolved metals analysis			
Fill A	8-31-16	1150	1	Soil		X	X			X	X		X	X	X		X							
Fill B	↓	1200	↓	↓		X	X			X	X		X	X	X		X							
Fill C	↓	1210	↓	↓		X	X			X	X		X	X	X		X							
SS-1	8-31-16	1230	1	Soil						X			X						X					
SS-2	↓	1300	1	↓						X			X						X					

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample for testing being submitted. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Robert E. Kitay	9-1-16	1621	[illegible]	9/1/16	1621

Comments / Instructions: Hold all Samples

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 8 / °C Initials _____

*TAKEN OFF HOLD 9/6/16.

Page ___ of ___

McCampbell Analytical, Inc.

From: Robert Kitay <rkitay@aquascienceengineers.com>
Sent: Tuesday, September 06, 2016 2:01 PM
To: McCampbell Analytical, Inc.
Subject: 243 Morrison Canyon Road, Fremont

For our 243 Morrison Canyon Road, Fremont project, please analyze for the following:

Please composite Fill A, Fill B and Fill C into 1 sample, and analyze the composite sample for the following:

Multi-Range Hydrocarbons with silica gel cleanup
VOCs
SVOCs
Pesticides and PCBs
Herbicides
CAM 17 metals

Please analyze soil samples SS-1 and SS-2 for:

Pesticides
Herbicides
Arsenic, lead and mercury

Thank you,

Robert Kitay
Aqua Science Engineers

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Sample Receipt Checklist

Client Name:	**Aqua Science Engineers, Inc.**	Date and Time Received:	**9/1/2016 16:21**
Project Name:	**243 Morrison Canyon**	Date Logged:	**9/6/2016**
WorkOrder №:	**1609202** Matrix: Soil	Received by:	Agustina Venegas
Carrier:	Client Drop-In	Logged by:	Agustina Venegas

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 8°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: