AEI Consultants

August 16, 2017

RECEIVED
By Alameda County Environmental Health 10:05 am, Sep 06, 2017

ADDITIONAL SUBSURFACE INVESTIGATION

Property Identification:
401 Jackson Street,
Oakland, California 94607

AEI Project No. 372927

Prepared for:
Amaro Poultry Co, Inc
5134 Willowview Court,
Pleasanton, California 94588

Prepared by:
AEI Consultants
2500 Camino Diablo,
Walnut Creek, California 94595
(925) 746-6000

Environmental & Engineering Due Diligence

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Consulting

Construction, Site Stabilization & Stormwater Services

Zoning Analysis Reports & ALTA Surveys

TABLE OF CONTENTS

AEI Consultants

August 16, 2017

Ms. Ruth Amaro
Amaro Poultry
5134 Willowview Court,
Pleasanton, California 94588

Subject: **Additional Subsurface Investigation**
401 Jackson Street, Oakland, California 94607
AEI Project No. 372927

Dear Ms. Amaro:

AEI Consultants (AEI) is pleased to provide this report which describes the activities and results of the additional subsurface investigation performed at 401 Jackson Street in Oakland, California ("the Site"). This investigation was completed in general accordance with the authorized scope of services outlined in our authorized proposal No. 53243.

1.0 SITE DESCRIPTION

The Site location and vicinity are shown on Figure 1. Figure 2 presents the Site Plan. The Site consists of a one story refrigerated warehouse and office space that houses Del Monte Meats, a meat distribution facility and storage warehouse. The Site is covered by concrete inside of the building with asphalt pavement and sidewalk surrounding the property. The general land use in the vicinity of the Site is mixed use commercial and residential.

The Site is relatively flat at an elevation of about 18 feet above mean sea level. The regional topographic gradient direction slopes toward the southeast and, therefore, the direction of groundwater flow beneath the subject property is inferred to be to the southwest. The Pacific Ocean is located approximately 0.25 miles to the south.

According to information obtained from the USGS, the area surrounding the subject property is underlain by artificial fill deposits of the modern era. Based on a review of the USDA Soil Survey for the area of the subject property, the soils in the vicinity of the subject property are classified as the Urban land-Baywood complex series. Soils from this series are characterized as loamy sand. Refer to Section 4.1 below for additional information on the site geology and groundwater conditions.

2.0 BACKGROUND

A Phase I Environmental Site Assessment (ESA) was performed by AEI as detailed in a report dated June 13, 2017 (AEI Project Number 372927). The Phase I ESA identified the following Recognized Environmental Concern (REC):

- According to Mr. Mr. Gary Bettencourt of Capital Group, a gasoline UST is reportedly located at the Site. Mr Bettencourt indicated the possible location of the UST along the southwestern corner within the building at the Site. Mr. Bettencourt indicated that this gasoline UST was installed sometime in the 1960s and was abandoned and filled in with concrete sometime in the 1980s. No further information concerning this UST was provided to AEI. No information concerning the subject property or USTs were on file with the regulatory agencies contacted during the course of this assessment. Based on the lack of information concerning the UST, AEI is unable to rule out the potential that a release from the UST has affected the subsurface of the subject property.

- During an investigation conducted on July 7, 2017, four soil borings were advanced at the Site to collect soil and groundwater samples. Soil and groundwater samples collected and analyzed yielded petroleum hydrocarbons, observed at concentrations that warranted further characterization. The results of this investigation are included in our July 14, 2017 *Limited Phase II Subsurface Investigation*.

3.0 INVESTIGATION EFFORTS

AEI was requested to perform and additional investigation to further characterize the nature and extent of petroleum hydrocarbons in soil and groundwater as described below.

3.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

3.2 Permitting and Utility Clearance

Drilling permits were obtained from Alameda County Public Works for this investigation (Appendix A). The public underground utility locating service USA North 811 was notified to identify public utilities in the work area. Private utility locating was conducted by 1st Call of Richmond, California to identify underground utilities on the subject property.

3.3 Drilling and Soil Sample Collection

On August 1 and 3, 2017, four soil borings (SB-5 through SB-8) were advanced at the Site, at the locations shown on Figure 2. AEI contracted Penecore Drilling of Woodland, California to advance each of the soil borings. Soil borings SB-5, SB-6, and SB-7 using a track-mounted direct push rig to a depth of 15-feet below ground surface (bgs), soil boring SB-8 was advanced using a hand auger to get a water sample inside a limited access area of the refrigerated section of the building to a depth of 10.5-feet bgs.

The borings were advanced using 2.25-inch outer diameter rods and samples were collected by advancing the rods with acetate sample liners in approximately 3 to 5-foot intervals depending on the rig being used. After each interval, the core was retrieved, core barrel disassembled, and the sample liner was removed and transferred to the onsite geologist.

The soil borings were logged using the Unified Soil Classification System. A photo ionization detector (PID) was used to screen soil samples in the field and the PID readings for each sample were included on the boring logs (Appendix B). Selected soil samples were sealed with Teflon tape and plastic end caps and placed into a cooler with ice.

Down-hole equipment was decontaminated using a triple rinse system containing detergent.

3.5 Groundwater Sample Collection

On August 1 and 3, 2017, groundwater samples were collected from the soil borings. Groundwater was collected from all borings using temporary PVC casing inserted into the borehole and collected using a peristaltic pump.

3.6 Boring Destruction

Following completion of sample collection and removal of tooling, the borings were backfilled with neat cement grout as required by the permitting agency and completed at the surface with concrete to match the surrounding conditions.

3.7 Laboratory Analyses

The soil and groundwater samples were labeled and placed into a cooler with ice following sampling. The samples were transferred under appropriate chain-of-custody documentation to McCampbell Analytical of Pittsburgh, California. Laboratory analytical documentation is provided in Appendix C.

Laboratory analysis of four soil samples consisted of the following:

- Volatile Organic Compounds (VOCs) using US EPA Testing Method 8260
- Total Petroleum Hydrocarbons (TPH) multirange using US EPA Testing Method 8015M

Laboratory analysis of two groundwater samples consisted of the following:

- VOCs using US EPA Testing Method 8260
- Total Petroleum Hydrocarbons (TPH) multirange using US EPA Testing Method 8015M

4.0 FINDINGS

This section presents the findings of the limited Phase II subsurface investigation performed.

4.1 Geology and Hydrogeology

Sediment encountered in each of the borings generally consisted of fine to medium sands with a small amount of clay (Appendix B). Groundwater was encountered in all borings at a depth of approximately 12-feet bgs. Groundwater slowly entered the boring over time. Groundwater in SB-8 was collected at a depth of 10-feet bgs, with water slowly entering the casing over time.

4.2 Soil Sample Analytical Results

Table 1 presents a summary of soil sample analytical results. The soil sample with the highest PID reading was analyzed from each of the four soil borings advanced. The results can be summarized as follows:

- Total petroleum hydrocarbons as motor oil (TPHmo) was the only analyte observed in the soil samples collected and analyzed, observed in samples SB-5-9.5 and SB-7-4.5 at concentrations of 5.8 and 5.7 milligrams per kilogram (mg/kg) respectively.
- Total petroleum hydrocarbons as gasoline or diesel, nor VOCs were detected in the soil samples collected and analyzed as part of this investigation.

4.3 Groundwater Sample Analytical Results

Table 2 presents a summary of the groundwater sample analytical results. Figure 2 presents the posted groundwater sample results for select compounds. The results can be summarized as follows:

- Total petroleum hydrocarbons as diesel (TPHd) was observed in three of the groundwater samples collected, observed at concentrations of 220, 460, and 3,400 micrograms per liter (µg/L), in samples SB-5, SB-6, and SB-7, respectively.
- TPHmo was observed in three of the groundwater samples collected, observed at concentrations of 6,100, 15,000, and 45,000 µg/L, in samples SB-5, SB-6 and SB-7, respectively.
- Methyl tertiary butyl ether (MTBE) was observed in the groundwater sample collected from SB-8 at a concentration of 1.8 µg/L.
- Total petroleum hydrocarbons as gasoline, nor VOCs were detected in the groundwater samples collected and analyzed as part of this investigation.

5.0 SUMMARY AND CONCLUSIONS

AEI has completed an additional subsurface investigation at the Site. The investigation included advancing four additional soil borings to further characterize the lateral extent of petroleum hydrocarbons in soil and groundwater at the Site. Based upon our review the data collected to-date, AEI has the following observations:

- The geophysical survey previously performed did not identify the presence of the former gasoline UST that was reportedly filled in-place. Therefore, it is unclear whether there was a gasoline UST at the Site.
- TPHg nor TPHd were not detected in the eight soil samples collected and analyzed.
- TPHmo was detected in three of the eight soil samples collected and analyzed, observed at a maximum concentration of 12 mg/kg.
- One of the five groundwater samples collected and analyzed, sample SB-4, yielded TPHg, benzene, and MTBE, observed at concentrations of 3,800, 21, and 16 µg/L, respectively. The groundwater sample collected from soil boring SB-8 yielded MTBE at a concentration of 1.8 µg/L. The groundwater samples collected from the remaining soil borings did not yield TPHg nor benzene at concentrations at or above their respective laboratory method detection limit. Therefore, if the observed concentrations of TPHg, benzene, and MTBE are attributed to the former gasoline UST, the lateral extent in groundwater has been adequately characterized and does not appear to represent a significant release from the former gasoline UST. The reporting of these data to the Alameda County Department of Environmental Health

(DEH) would be anticipated to not require further characterization nor remediation since the requirements of the State of California Water Resources Control Board *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP) have been met.

- Five of the six groundwater samples collected and analyzed yielded elevated concentrations of TPHd and TPHmo, observed at maximum concentrations of 3,400 and 45,000 µg/L, respectively, in the sample collected from soil boring SB-7. The detections of TPHd and TPHmo are not consistent with the noted former gasoline UST at the Site. The samples collected from the Site between the two investigations performed by AEI did not identify a source of the TPHd and TPHmo observed in groundwater nor did the Phase I ESA performed identify a suspected source.

Engagement with the DEH for the reporting of the chemical concentrations observed in groundwater is recommended.

6.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the subject property. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Amaro Poultry. All reports, both verbal and written, whether in draft or final, are for the benefit of Amaro Poultry. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Amaro Poultry. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact Ms. Courtney Monheit at (925) 746-6026, or the undersigned.

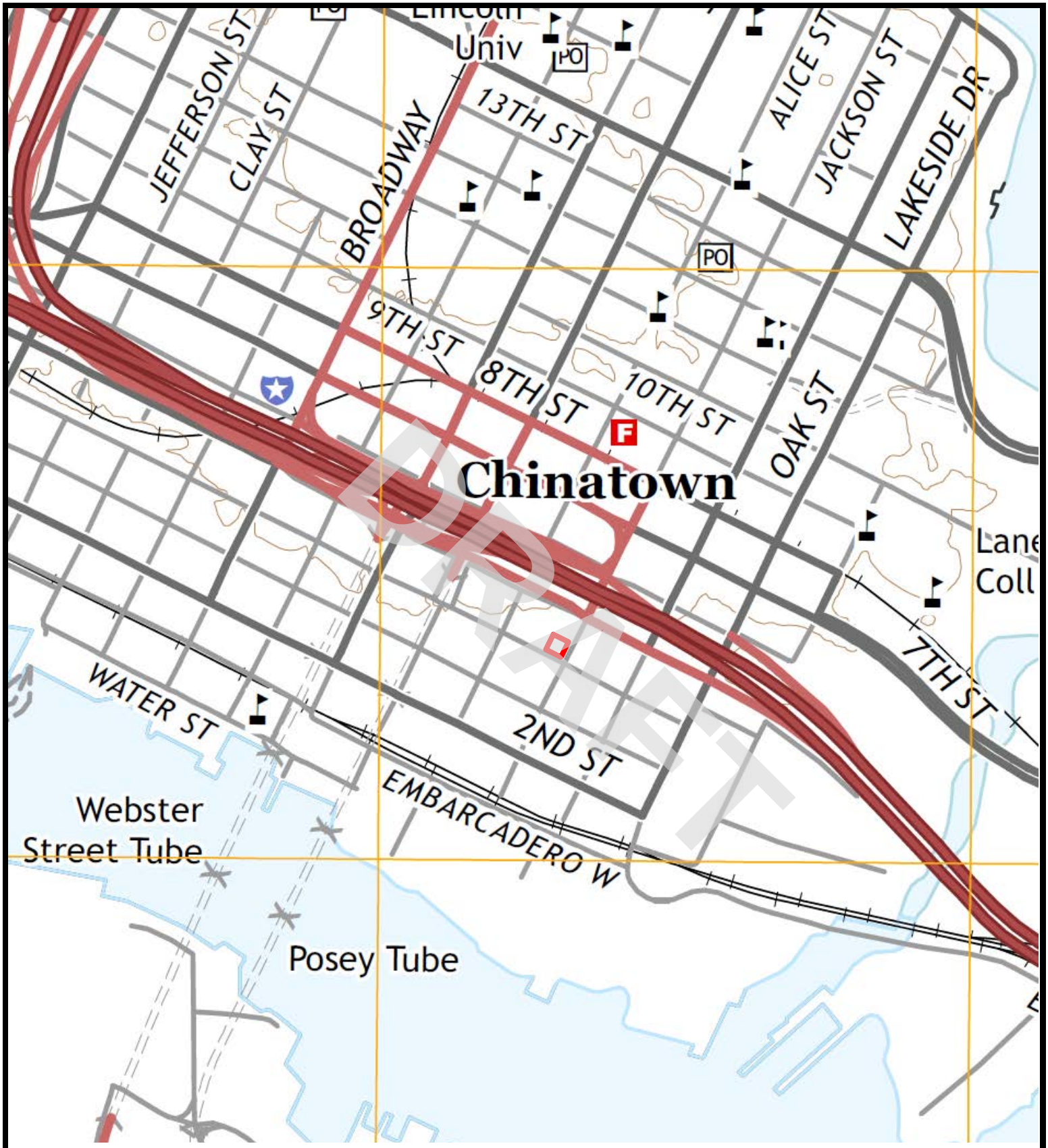
Sincerely,
AEI Consultants

Trent A. Weise
2017.08.16 11:17:25
-07'00'

Trent A. Weise, P.E.
Vice President

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94595
Phone: (925) 746-6000

FIGURES



Legend: Approximate Property Boundary

Source: USGS Topographic Map *Oakland West, California* (2015)

N

Figure 1: TOPOGRAPHIC MAP

401 Jackson Street, Oakland, California 94607

Project Number: 372927

AEI Consultants

LEGEND

- Approximate Property Boundary
- Soil Boring Location

Analyte concentrations shown in ug/L

0 15 30
SCALE: 1" = 30'

AEI Consultants

2500 Camino Diablo, Walnut Creek, California

Petroleum Hydrocarbon Concentrations in Groundwater

401 Jackson Street, Oakland, California

FIGURE 2
Project No. 372927

TABLES

TABLE 1: SOIL SAMPLE DATA SUMMARY
401 Jackson Street, Oakland, California

Sample ID	Date	Depth (feet bgs)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	Remaining VOCs (mg/kg)
SB-1-8	7/7/2017	8	<1.0	<1.0	<5.0	<RL
SB-2-9	7/7/2017	9	<1.0	<1.0	**12**	<RL
SB-3-9.5	7/7/2017	9.5	<1.0	<1.0	<5.0	<RL
SB-4-7	7/7/2017	7	<1.0	<1.0	<5.0	<RL
SB-5-9.5	8/1/2017	9.5	<1.0	<1.0	<5.0	<RL
SB-6-7	8/1/2017	7	<1.0	<1.0	**5.8**	<RL
SB-7-4.5	8/1/2017	4.5	<1.0	<1.0	**5.7**	<RL
SB-8-8.5	8/3/2017	8.5	<1.0	<1.0	<5.0	<RL
Comparison Values:						
ESL- Tier 1			100	100	5,100	<RL

Notes:

mg/kg	milligrams per kilogram
<RL	less than the laboratory reporting limit
NA	not analyzed
bgs	below ground surface
N/A	not applicable
TPH-g	Total Petroleum Hydrocarbons as Gasoline
TPH-d	Total Petroleum Hydrocarbons as Diesel
TPH-mo	Total Petroleum Hydrocarbons as Motor Oil
Bold	Analyte detected at or above the labototory method reporting limit

Comparison Values:

ESL Tier 1: Tier 1 Environmental Screening Levels (ESLs) from February 2016 (Rev. 3) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

TABLE 2: GROUNDWATER SAMPLE DATA SUMMARY
401 Jackson Street, Oakland, California

Location ID	Date	Depth (feet bgs)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenze (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	4-Isopropyl toluene (µg/L)	Methylene chloride (µg/L)	n-Propyl benzene (µg/L)	n-Butyl benzene	1,2,4-Trimethy-benzene (µg/L)	1,3,5-Trimethy-benzene (µg/L)	2-Butanone (MEK) (µg/L)	Remaining VOCs (µg/L)
SB-3	7/7/2017	10.8	<50	**200**	**1,300**	<0.50	<0.50	<0.50	**0.52**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.58**	<0.50	**3.2**	<RL
SB-4	7/7/2017	8.0	**3,800**	**1,200**	**4,900**	**21**	**150**	**50**	**410**	**16**	**54**	**38**	**5.2**	**6.2**	**15**	**7.3**	**150**	**48**	<20	<RL
SB-5	8/1/2017	9.92	<50	**220**	**6,100**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<RL
SB-6	8/1/2017	9.95	<50	**460**	**15,000**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<RL
SB-7	8/1/2017	7.71	<50	**3,400**	**45,000**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<RL
SB-8	8/3/2017	10.5	<50	<50	<250	<0.50	<0.50	<0.50	<0.50	**1.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<RL
Comparison Values:																				
ESL Tier 1:		--	100	100	50,000	1.0	40	13	20	5.0	12	0.17	NA	5.0	NA	NA	NA	NA	5,600	--

Notes:

µg/L	micrograms per liter
<RL	less than the laboratory reporting limit
NA	not analyzed
bgs	below ground surface
--	not applicable
TPH-g	Total Petroleum Hydrocarbons as Gasoline
TPH-d	Total Petroleum Hydrocarbons as Diesel
TPH-mo	Total Petroleum Hydrocarbons as Motor Oil
MTBE	Methyl tertiary butyl ether
TBA	tert-butyl alcohol
MEK	methyl ethyl ketone
Bold	Analyte detected at or above the laboratory method reporting limit

Comparison Values:
ESL Tier 1: Tier 1 Environmental Screening Levels (ESLs) from February 2016 (Rev. 3) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

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: 07/28/2017 By jamesy

Permit Numbers: W2017-0607
Permits Valid from 08/02/2017 to 08/02/2017

Application Id: 1501194709006
City of Project Site: Oakland
Site Location: 401 Jackson Street

- Need to Drill on August 2nd
Project Start Date: 08/02/2017
Completion Date: 08/02/2017
Assigned Inspector: Contact Eneyew Amberber at (510) 670-5759 or eneyew@acpwa.org

Applicant: AEI Consultants - Jeremy Smith
2500 Camino Diablo, Walnut Creek, CA 94597
Phone: 925-746-6000 x1128

Property Owner: Ruth Amaro
5134 Willowview Court, Pleasanton, CA 94588
Phone: --

Client: ** same as Property Owner **

Contact: Jeremy Smith
Phone: --
Cell: --

Total Due: $265.00
Receipt Number: WR2017-0350 **Total Amount Paid:** $265.00
Payer Name : Jeremy Smith Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 4 Boreholes
Driller: Penecore Drilling - Lic #: 906899 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2017-0607	07/28/2017	10/31/2017	4	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. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

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

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

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

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

Soil Boring Logs

BORING NUMBER SB-5

AEI Consultants

Environmental & Engineering Services

CLIENT Amaro Poultry Company
PROJECT NAME
PROJECT NUMBER 372927
PROJECT LOCATION 401 Jackson Street, Oakland
DATE STARTED 8/1/17 **COMPLETED** 8/1/17
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Penecore
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING 10.00 ft
LOGGED BY WBH **CHECKED BY** T. Weise
AT END OF DRILLING ---
NOTES
AFTER DRILLING 9.92 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0					ASPHALT	
					0.8	
					SAND (SP), yellowish brown (10YR 5/6), dense, dry to 5 feet, moist to 10 feet, fine sand, reddish streaks from 5 to 10 feet, grayish streaks from 7 to 10 feet	
5	SB-5-4.5		2.6			
	SB-5-7		2.5			
10	SB-5-9.5		28.2		10.0 ▽	
					CLAYEY SAND (SC), dark yellowish brown (10YR 4/6), dense, wet, fine sand	
15					15.0	

Bottom of borehole at 15.0 feet.

BORING NUMBER SB-6

AEI Consultants

Environmental & Engineering Services

CLIENT Amaro Poultry Company
PROJECT NAME
PROJECT NUMBER 372927
PROJECT LOCATION 401 Jackson Street, Oakland
DATE STARTED 8/1/17 **COMPLETED** 8/1/17
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Penecore
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING 10.00 ft
LOGGED BY WBH **CHECKED BY** T. Weise
AT END OF DRILLING ---
NOTES
AFTER DRILLING 9.54 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0					ASPHALT	
					0.8	
					SAND (SP), yellowish brown (10YR 5/4), dense, dry to 5, moist to 10, wet from 10 to 15, fine sand, grayish sandy streaks starting from 7 to 10 feet	
5	SB-6-4.5		2.6			
	SB-6-7		37.5			
10	SB-6-9.5		18.5			
					12.0	
					CLAYEY SAND (SC), dark yellowish brown (10YR 4/6), dense, wet, fine sand	
15					15.0	
					Bottom of borehole at 15.0 feet.	

BORING NUMBER SB-7

AEI Consultants

Environmental & Engineering Services

CLIENT Amaro Poultry Company
PROJECT NAME
PROJECT NUMBER 372927
PROJECT LOCATION 401 Jackson Street, Oakland
DATE STARTED 8/1/17 **COMPLETED** 8/1/17
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Penecore
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING 12.00 ft
LOGGED BY WBH **CHECKED BY** T. Weise
AT END OF DRILLING ---
NOTES
AFTER DRILLING 7.71 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0					ASPHALT	
					0.8	
					SAND (SP), yellowish brown (10YR 5/6), dense, dry to 4 feet, moist from 4 to 12 feet, fine sand, grayish sands starting at 7 feet going to 10 feet	
5	SB-7-4.5		2.1			
	SB-7-7		0.5			
10	SB-7-9.5		0.3			
					12.0 ▽	
					CLAYEY SAND (SC), dark yellowish brown (10YR 4/6), dense, wet, fine sand	
15					15.0	
					Bottom of borehole at 15.0 feet.	

BORING NUMBER SB-8

AEI Consultants

Environmental & Engineering Services

CLIENT Amaro Poultry Company
PROJECT NAME
PROJECT NUMBER 372927
PROJECT LOCATION 401 Jackson Street, Oakland
DATE STARTED 8/1/17 **COMPLETED** 8/1/17
GROUND ELEVATION **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Penecore
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY WBH **CHECKED BY** T. Weise
AT END OF DRILLING ---
NOTES
AFTER DRILLING 10.50 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0					0.5 CONCRETE	
			<1.0		SILTY SAND (SM), yellow brown, medium dense, moist, fine grained sand	
			<1.0			
5						
			<1.0			
	SB-8-8.5		<1.0			
10			<1.0		10.5	

Bottom of borehole at 10.5 feet.

APPENDIX C

Laboratory Analytical Reports

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1708048

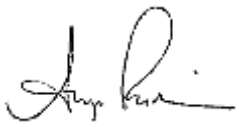
Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: William Hicks
Project P.O.: 138748
Project Name: 372927: 401 Jackson St., Oakland

Project Received: 08/01/2017

Analytical Report reviewed & approved for release on 08/08/2017 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: AEI Consultants
Project: 372927: 401 Jackson St., Oakland
WorkOrder: 1708048

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)

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: AEI Consultants
Project: 372927: 401 Jackson St., Oakland
WorkOrder: 1708048

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment
e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F3	The surrogate standard recovery and/or RPD is outside of acceptance limits.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-9.5	1708048-006A	Soil	08/01/2017 14:06	GC10	142969

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/06/2017 04:07
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/06/2017 04:07
Benzene	ND	0.0050	1	08/06/2017 04:07
Bromobenzene	ND	0.0050	1	08/06/2017 04:07
Bromochloromethane	ND	0.0050	1	08/06/2017 04:07
Bromodichloromethane	ND	0.0050	1	08/06/2017 04:07
Bromoform	ND	0.0050	1	08/06/2017 04:07
Bromomethane	ND	0.0050	1	08/06/2017 04:07
2-Butanone (MEK)	ND	0.020	1	08/06/2017 04:07
t-Butyl alcohol (TBA)	ND	0.050	1	08/06/2017 04:07
n-Butyl benzene	ND	0.0050	1	08/06/2017 04:07
sec-Butyl benzene	ND	0.0050	1	08/06/2017 04:07
tert-Butyl benzene	ND	0.0050	1	08/06/2017 04:07
Carbon Disulfide	ND	0.0050	1	08/06/2017 04:07
Carbon Tetrachloride	ND	0.0050	1	08/06/2017 04:07
Chlorobenzene	ND	0.0050	1	08/06/2017 04:07
Chloroethane	ND	0.0050	1	08/06/2017 04:07
Chloroform	ND	0.0050	1	08/06/2017 04:07
Chloromethane	ND	0.0050	1	08/06/2017 04:07
2-Chlorotoluene	ND	0.0050	1	08/06/2017 04:07
4-Chlorotoluene	ND	0.0050	1	08/06/2017 04:07
Dibromochloromethane	ND	0.0050	1	08/06/2017 04:07
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/06/2017 04:07
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/06/2017 04:07
Dibromomethane	ND	0.0050	1	08/06/2017 04:07
1,2-Dichlorobenzene	ND	0.0050	1	08/06/2017 04:07
1,3-Dichlorobenzene	ND	0.0050	1	08/06/2017 04:07
1,4-Dichlorobenzene	ND	0.0050	1	08/06/2017 04:07
Dichlorodifluoromethane	ND	0.0050	1	08/06/2017 04:07
1,1-Dichloroethane	ND	0.0050	1	08/06/2017 04:07
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/06/2017 04:07
1,1-Dichloroethene	ND	0.0050	1	08/06/2017 04:07
cis-1,2-Dichloroethene	ND	0.0050	1	08/06/2017 04:07
trans-1,2-Dichloroethene	ND	0.0050	1	08/06/2017 04:07
1,2-Dichloropropane	ND	0.0050	1	08/06/2017 04:07
1,3-Dichloropropane	ND	0.0050	1	08/06/2017 04:07
2,2-Dichloropropane	ND	0.0050	1	08/06/2017 04:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-9.5	1708048-006A	Soil	08/01/2017 14:06	GC10	142969

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/06/2017 04:07
cis-1,3-Dichloropropene	ND	0.0050	1	08/06/2017 04:07
trans-1,3-Dichloropropene	ND	0.0050	1	08/06/2017 04:07
Diisopropyl ether (DIPE)	ND	0.0050	1	08/06/2017 04:07
Ethylbenzene	ND	0.0050	1	08/06/2017 04:07
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/06/2017 04:07
Freon 113	ND	0.0050	1	08/06/2017 04:07
Hexachlorobutadiene	ND	0.0050	1	08/06/2017 04:07
Hexachloroethane	ND	0.0050	1	08/06/2017 04:07
2-Hexanone	ND	0.0050	1	08/06/2017 04:07
Isopropylbenzene	ND	0.0050	1	08/06/2017 04:07
4-Isopropyl toluene	ND	0.0050	1	08/06/2017 04:07
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/06/2017 04:07
Methylene chloride	ND	0.0050	1	08/06/2017 04:07
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/06/2017 04:07
Naphthalene	ND	0.0050	1	08/06/2017 04:07
n-Propyl benzene	ND	0.0050	1	08/06/2017 04:07
Styrene	ND	0.0050	1	08/06/2017 04:07
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/06/2017 04:07
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/06/2017 04:07
Tetrachloroethene	ND	0.0050	1	08/06/2017 04:07
Toluene	ND	0.0050	1	08/06/2017 04:07
1,2,3-Trichlorobenzene	ND	0.0050	1	08/06/2017 04:07
1,2,4-Trichlorobenzene	ND	0.0050	1	08/06/2017 04:07
1,1,1-Trichloroethane	ND	0.0050	1	08/06/2017 04:07
1,1,2-Trichloroethane	ND	0.0050	1	08/06/2017 04:07
Trichloroethene	ND	0.0050	1	08/06/2017 04:07
Trichlorofluoromethane	ND	0.0050	1	08/06/2017 04:07
1,2,3-Trichloropropane	ND	0.0050	1	08/06/2017 04:07
1,2,4-Trimethylbenzene	ND	0.0050	1	08/06/2017 04:07
1,3,5-Trimethylbenzene	ND	0.0050	1	08/06/2017 04:07
Vinyl Chloride	ND	0.0050	1	08/06/2017 04:07
Xylenes, Total	ND	0.0050	1	08/06/2017 04:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-9.5	**1708048-006A**	**Soil**	**08/01/2017 14:06**	**GC10**	**142969**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	98	70-130		08/06/2017 04:07
Toluene-d8	113	70-130		08/06/2017 04:07
4-BFB	99	70-130		08/06/2017 04:07
Benzene-d6	76	60-140		08/06/2017 04:07
Ethylbenzene-d10	98	60-140		08/06/2017 04:07
1,2-DCB-d4	75	60-140		08/06/2017 04:07

Analyst(s): AK

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-7	1708048-008A	Soil	08/01/2017 13:27	GC10	142969

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/06/2017 04:47
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/06/2017 04:47
Benzene	ND	0.0050	1	08/06/2017 04:47
Bromobenzene	ND	0.0050	1	08/06/2017 04:47
Bromochloromethane	ND	0.0050	1	08/06/2017 04:47
Bromodichloromethane	ND	0.0050	1	08/06/2017 04:47
Bromoform	ND	0.0050	1	08/06/2017 04:47
Bromomethane	ND	0.0050	1	08/06/2017 04:47
2-Butanone (MEK)	ND	0.020	1	08/06/2017 04:47
t-Butyl alcohol (TBA)	ND	0.050	1	08/06/2017 04:47
n-Butyl benzene	ND	0.0050	1	08/06/2017 04:47
sec-Butyl benzene	ND	0.0050	1	08/06/2017 04:47
tert-Butyl benzene	ND	0.0050	1	08/06/2017 04:47
Carbon Disulfide	ND	0.0050	1	08/06/2017 04:47
Carbon Tetrachloride	ND	0.0050	1	08/06/2017 04:47
Chlorobenzene	ND	0.0050	1	08/06/2017 04:47
Chloroethane	ND	0.0050	1	08/06/2017 04:47
Chloroform	ND	0.0050	1	08/06/2017 04:47
Chloromethane	ND	0.0050	1	08/06/2017 04:47
2-Chlorotoluene	ND	0.0050	1	08/06/2017 04:47
4-Chlorotoluene	ND	0.0050	1	08/06/2017 04:47
Dibromochloromethane	ND	0.0050	1	08/06/2017 04:47
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/06/2017 04:47
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/06/2017 04:47
Dibromomethane	ND	0.0050	1	08/06/2017 04:47
1,2-Dichlorobenzene	ND	0.0050	1	08/06/2017 04:47
1,3-Dichlorobenzene	ND	0.0050	1	08/06/2017 04:47
1,4-Dichlorobenzene	ND	0.0050	1	08/06/2017 04:47
Dichlorodifluoromethane	ND	0.0050	1	08/06/2017 04:47
1,1-Dichloroethane	ND	0.0050	1	08/06/2017 04:47
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/06/2017 04:47
1,1-Dichloroethene	ND	0.0050	1	08/06/2017 04:47
cis-1,2-Dichloroethene	ND	0.0050	1	08/06/2017 04:47
trans-1,2-Dichloroethene	ND	0.0050	1	08/06/2017 04:47
1,2-Dichloropropane	ND	0.0050	1	08/06/2017 04:47
1,3-Dichloropropane	ND	0.0050	1	08/06/2017 04:47
2,2-Dichloropropane	ND	0.0050	1	08/06/2017 04:47

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-7	1708048-008A	Soil	08/01/2017 13:27	GC10	142969

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/06/2017 04:47
cis-1,3-Dichloropropene	ND	0.0050	1	08/06/2017 04:47
trans-1,3-Dichloropropene	ND	0.0050	1	08/06/2017 04:47
Diisopropyl ether (DIPE)	ND	0.0050	1	08/06/2017 04:47
Ethylbenzene	ND	0.0050	1	08/06/2017 04:47
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/06/2017 04:47
Freon 113	ND	0.0050	1	08/06/2017 04:47
Hexachlorobutadiene	ND	0.0050	1	08/06/2017 04:47
Hexachloroethane	ND	0.0050	1	08/06/2017 04:47
2-Hexanone	ND	0.0050	1	08/06/2017 04:47
Isopropylbenzene	ND	0.0050	1	08/06/2017 04:47
4-Isopropyl toluene	ND	0.0050	1	08/06/2017 04:47
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/06/2017 04:47
Methylene chloride	ND	0.0050	1	08/06/2017 04:47
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/06/2017 04:47
Naphthalene	ND	0.0050	1	08/06/2017 04:47
n-Propyl benzene	ND	0.0050	1	08/06/2017 04:47
Styrene	ND	0.0050	1	08/06/2017 04:47
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/06/2017 04:47
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/06/2017 04:47
Tetrachloroethene	ND	0.0050	1	08/06/2017 04:47
Toluene	ND	0.0050	1	08/06/2017 04:47
1,2,3-Trichlorobenzene	ND	0.0050	1	08/06/2017 04:47
1,2,4-Trichlorobenzene	ND	0.0050	1	08/06/2017 04:47
1,1,1-Trichloroethane	ND	0.0050	1	08/06/2017 04:47
1,1,2-Trichloroethane	ND	0.0050	1	08/06/2017 04:47
Trichloroethene	ND	0.0050	1	08/06/2017 04:47
Trichlorofluoromethane	ND	0.0050	1	08/06/2017 04:47
1,2,3-Trichloropropane	ND	0.0050	1	08/06/2017 04:47
1,2,4-Trimethylbenzene	ND	0.0050	1	08/06/2017 04:47
1,3,5-Trimethylbenzene	ND	0.0050	1	08/06/2017 04:47
Vinyl Chloride	ND	0.0050	1	08/06/2017 04:47
Xylenes, Total	ND	0.0050	1	08/06/2017 04:47

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-7	**1708048-008A**	**Soil**	**08/01/2017 13:27**	**GC10**	**142969**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	98	70-130		08/06/2017 04:47
Toluene-d8	113	70-130		08/06/2017 04:47
4-BFB	101	70-130		08/06/2017 04:47
Benzene-d6	75	60-140		08/06/2017 04:47
Ethylbenzene-d10	96	60-140		08/06/2017 04:47
1,2-DCB-d4	76	60-140		08/06/2017 04:47

Analyst(s): AK

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-4.5	1708048-010A	Soil	08/01/2017 12:40	GC10	142969

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/06/2017 05:27
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/06/2017 05:27
Benzene	ND	0.0050	1	08/06/2017 05:27
Bromobenzene	ND	0.0050	1	08/06/2017 05:27
Bromochloromethane	ND	0.0050	1	08/06/2017 05:27
Bromodichloromethane	ND	0.0050	1	08/06/2017 05:27
Bromoform	ND	0.0050	1	08/06/2017 05:27
Bromomethane	ND	0.0050	1	08/06/2017 05:27
2-Butanone (MEK)	ND	0.020	1	08/06/2017 05:27
t-Butyl alcohol (TBA)	ND	0.050	1	08/06/2017 05:27
n-Butyl benzene	ND	0.0050	1	08/06/2017 05:27
sec-Butyl benzene	ND	0.0050	1	08/06/2017 05:27
tert-Butyl benzene	ND	0.0050	1	08/06/2017 05:27
Carbon Disulfide	ND	0.0050	1	08/06/2017 05:27
Carbon Tetrachloride	ND	0.0050	1	08/06/2017 05:27
Chlorobenzene	ND	0.0050	1	08/06/2017 05:27
Chloroethane	ND	0.0050	1	08/06/2017 05:27
Chloroform	ND	0.0050	1	08/06/2017 05:27
Chloromethane	ND	0.0050	1	08/06/2017 05:27
2-Chlorotoluene	ND	0.0050	1	08/06/2017 05:27
4-Chlorotoluene	ND	0.0050	1	08/06/2017 05:27
Dibromochloromethane	ND	0.0050	1	08/06/2017 05:27
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/06/2017 05:27
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/06/2017 05:27
Dibromomethane	ND	0.0050	1	08/06/2017 05:27
1,2-Dichlorobenzene	ND	0.0050	1	08/06/2017 05:27
1,3-Dichlorobenzene	ND	0.0050	1	08/06/2017 05:27
1,4-Dichlorobenzene	ND	0.0050	1	08/06/2017 05:27
Dichlorodifluoromethane	ND	0.0050	1	08/06/2017 05:27
1,1-Dichloroethane	ND	0.0050	1	08/06/2017 05:27
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/06/2017 05:27
1,1-Dichloroethene	ND	0.0050	1	08/06/2017 05:27
cis-1,2-Dichloroethene	ND	0.0050	1	08/06/2017 05:27
trans-1,2-Dichloroethene	ND	0.0050	1	08/06/2017 05:27
1,2-Dichloropropane	ND	0.0050	1	08/06/2017 05:27
1,3-Dichloropropane	ND	0.0050	1	08/06/2017 05:27
2,2-Dichloropropane	ND	0.0050	1	08/06/2017 05:27

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-4.5	1708048-010A	Soil	08/01/2017 12:40	GC10	142969

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/06/2017 05:27
cis-1,3-Dichloropropene	ND	0.0050	1	08/06/2017 05:27
trans-1,3-Dichloropropene	ND	0.0050	1	08/06/2017 05:27
Diisopropyl ether (DIPE)	ND	0.0050	1	08/06/2017 05:27
Ethylbenzene	ND	0.0050	1	08/06/2017 05:27
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/06/2017 05:27
Freon 113	ND	0.0050	1	08/06/2017 05:27
Hexachlorobutadiene	ND	0.0050	1	08/06/2017 05:27
Hexachloroethane	ND	0.0050	1	08/06/2017 05:27
2-Hexanone	ND	0.0050	1	08/06/2017 05:27
Isopropylbenzene	ND	0.0050	1	08/06/2017 05:27
4-Isopropyl toluene	ND	0.0050	1	08/06/2017 05:27
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/06/2017 05:27
Methylene chloride	ND	0.0050	1	08/06/2017 05:27
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/06/2017 05:27
Naphthalene	ND	0.0050	1	08/06/2017 05:27
n-Propyl benzene	ND	0.0050	1	08/06/2017 05:27
Styrene	ND	0.0050	1	08/06/2017 05:27
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/06/2017 05:27
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/06/2017 05:27
Tetrachloroethene	ND	0.0050	1	08/06/2017 05:27
Toluene	ND	0.0050	1	08/06/2017 05:27
1,2,3-Trichlorobenzene	ND	0.0050	1	08/06/2017 05:27
1,2,4-Trichlorobenzene	ND	0.0050	1	08/06/2017 05:27
1,1,1-Trichloroethane	ND	0.0050	1	08/06/2017 05:27
1,1,2-Trichloroethane	ND	0.0050	1	08/06/2017 05:27
Trichloroethene	ND	0.0050	1	08/06/2017 05:27
Trichlorofluoromethane	ND	0.0050	1	08/06/2017 05:27
1,2,3-Trichloropropane	ND	0.0050	1	08/06/2017 05:27
1,2,4-Trimethylbenzene	ND	0.0050	1	08/06/2017 05:27
1,3,5-Trimethylbenzene	ND	0.0050	1	08/06/2017 05:27
Vinyl Chloride	ND	0.0050	1	08/06/2017 05:27
Xylenes, Total	ND	0.0050	1	08/06/2017 05:27

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-4.5	**1708048-010A**	**Soil**	**08/01/2017 12:40**	**GC10**	**142969**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	97	70-130		08/06/2017 05:27
Toluene-d8	114	70-130		08/06/2017 05:27
4-BFB	96	70-130		08/06/2017 05:27
Benzene-d6	76	60-140		08/06/2017 05:27
Ethylbenzene-d10	99	60-140		08/06/2017 05:27
1,2-DCB-d4	75	60-140		08/06/2017 05:27

Analyst(s): AK

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5	1708048-001B	Water	08/01/2017 14:25	GC38	143252

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/05/2017 21:45
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/05/2017 21:45
Benzene	ND	0.50	1	08/05/2017 21:45
Bromobenzene	ND	0.50	1	08/05/2017 21:45
Bromochloromethane	ND	0.50	1	08/05/2017 21:45
Bromodichloromethane	ND	0.50	1	08/05/2017 21:45
Bromoform	ND	0.50	1	08/05/2017 21:45
Bromomethane	ND	0.50	1	08/05/2017 21:45
2-Butanone (MEK)	ND	2.0	1	08/05/2017 21:45
t-Butyl alcohol (TBA)	ND	2.0	1	08/05/2017 21:45
n-Butyl benzene	ND	0.50	1	08/05/2017 21:45
sec-Butyl benzene	ND	0.50	1	08/05/2017 21:45
tert-Butyl benzene	ND	0.50	1	08/05/2017 21:45
Carbon Disulfide	ND	0.50	1	08/05/2017 21:45
Carbon Tetrachloride	ND	0.50	1	08/05/2017 21:45
Chlorobenzene	ND	0.50	1	08/05/2017 21:45
Chloroethane	ND	0.50	1	08/05/2017 21:45
Chloroform	ND	0.50	1	08/05/2017 21:45
Chloromethane	ND	0.50	1	08/05/2017 21:45
2-Chlorotoluene	ND	0.50	1	08/05/2017 21:45
4-Chlorotoluene	ND	0.50	1	08/05/2017 21:45
Dibromochloromethane	ND	0.50	1	08/05/2017 21:45
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/05/2017 21:45
1,2-Dibromoethane (EDB)	ND	0.50	1	08/05/2017 21:45
Dibromomethane	ND	0.50	1	08/05/2017 21:45
1,2-Dichlorobenzene	ND	0.50	1	08/05/2017 21:45
1,3-Dichlorobenzene	ND	0.50	1	08/05/2017 21:45
1,4-Dichlorobenzene	ND	0.50	1	08/05/2017 21:45
Dichlorodifluoromethane	ND	0.50	1	08/05/2017 21:45
1,1-Dichloroethane	ND	0.50	1	08/05/2017 21:45
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/05/2017 21:45
1,1-Dichloroethene	ND	0.50	1	08/05/2017 21:45
cis-1,2-Dichloroethene	ND	0.50	1	08/05/2017 21:45
trans-1,2-Dichloroethene	ND	0.50	1	08/05/2017 21:45
1,2-Dichloropropane	ND	0.50	1	08/05/2017 21:45
1,3-Dichloropropane	ND	0.50	1	08/05/2017 21:45
2,2-Dichloropropane	ND	0.50	1	08/05/2017 21:45

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5	1708048-001B	Water	08/01/2017 14:25	GC38	143252

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/05/2017 21:45
cis-1,3-Dichloropropene	ND	0.50	1	08/05/2017 21:45
trans-1,3-Dichloropropene	ND	0.50	1	08/05/2017 21:45
Diisopropyl ether (DIPE)	ND	0.50	1	08/05/2017 21:45
Ethylbenzene	ND	0.50	1	08/05/2017 21:45
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/05/2017 21:45
Freon 113	ND	0.50	1	08/05/2017 21:45
Hexachlorobutadiene	ND	0.50	1	08/05/2017 21:45
Hexachloroethane	ND	0.50	1	08/05/2017 21:45
2-Hexanone	ND	0.50	1	08/05/2017 21:45
Isopropylbenzene	ND	0.50	1	08/05/2017 21:45
4-Isopropyl toluene	ND	0.50	1	08/05/2017 21:45
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/05/2017 21:45
Methylene chloride	ND	0.50	1	08/05/2017 21:45
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/05/2017 21:45
Naphthalene	ND	0.50	1	08/05/2017 21:45
n-Propyl benzene	ND	0.50	1	08/05/2017 21:45
Styrene	ND	0.50	1	08/05/2017 21:45
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/05/2017 21:45
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/05/2017 21:45
Tetrachloroethene	ND	0.50	1	08/05/2017 21:45
Toluene	ND	0.50	1	08/05/2017 21:45
1,2,3-Trichlorobenzene	ND	0.50	1	08/05/2017 21:45
1,2,4-Trichlorobenzene	ND	0.50	1	08/05/2017 21:45
1,1,1-Trichloroethane	ND	0.50	1	08/05/2017 21:45
1,1,2-Trichloroethane	ND	0.50	1	08/05/2017 21:45
Trichloroethene	ND	0.50	1	08/05/2017 21:45
Trichlorofluoromethane	ND	0.50	1	08/05/2017 21:45
1,2,3-Trichloropropane	ND	0.50	1	08/05/2017 21:45
1,2,4-Trimethylbenzene	ND	0.50	1	08/05/2017 21:45
1,3,5-Trimethylbenzene	ND	0.50	1	08/05/2017 21:45
Vinyl Chloride	ND	0.50	1	08/05/2017 21:45
Xylenes, Total	ND	0.50	1	08/05/2017 21:45

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5	**1708048-001B**	**Water**	**08/01/2017 14:25**	**GC38**	**143252**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		08/05/2017 21:45
Toluene-d8	102	70-130		08/05/2017 21:45
4-BFB	78	70-130		08/05/2017 21:45

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6	1708048-002B	Water	08/01/2017 14:15	GC38	143252

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/05/2017 22:23
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/05/2017 22:23
Benzene	ND	0.50	1	08/05/2017 22:23
Bromobenzene	ND	0.50	1	08/05/2017 22:23
Bromochloromethane	ND	0.50	1	08/05/2017 22:23
Bromodichloromethane	ND	0.50	1	08/05/2017 22:23
Bromoform	ND	0.50	1	08/05/2017 22:23
Bromomethane	ND	0.50	1	08/05/2017 22:23
2-Butanone (MEK)	ND	2.0	1	08/05/2017 22:23
t-Butyl alcohol (TBA)	ND	2.0	1	08/05/2017 22:23
n-Butyl benzene	ND	0.50	1	08/05/2017 22:23
sec-Butyl benzene	ND	0.50	1	08/05/2017 22:23
tert-Butyl benzene	ND	0.50	1	08/05/2017 22:23
Carbon Disulfide	ND	0.50	1	08/05/2017 22:23
Carbon Tetrachloride	ND	0.50	1	08/05/2017 22:23
Chlorobenzene	ND	0.50	1	08/05/2017 22:23
Chloroethane	ND	0.50	1	08/05/2017 22:23
Chloroform	ND	0.50	1	08/05/2017 22:23
Chloromethane	ND	0.50	1	08/05/2017 22:23
2-Chlorotoluene	ND	0.50	1	08/05/2017 22:23
4-Chlorotoluene	ND	0.50	1	08/05/2017 22:23
Dibromochloromethane	ND	0.50	1	08/05/2017 22:23
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/05/2017 22:23
1,2-Dibromoethane (EDB)	ND	0.50	1	08/05/2017 22:23
Dibromomethane	ND	0.50	1	08/05/2017 22:23
1,2-Dichlorobenzene	ND	0.50	1	08/05/2017 22:23
1,3-Dichlorobenzene	ND	0.50	1	08/05/2017 22:23
1,4-Dichlorobenzene	ND	0.50	1	08/05/2017 22:23
Dichlorodifluoromethane	ND	0.50	1	08/05/2017 22:23
1,1-Dichloroethane	ND	0.50	1	08/05/2017 22:23
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/05/2017 22:23
1,1-Dichloroethene	ND	0.50	1	08/05/2017 22:23
cis-1,2-Dichloroethene	ND	0.50	1	08/05/2017 22:23
trans-1,2-Dichloroethene	ND	0.50	1	08/05/2017 22:23
1,2-Dichloropropane	ND	0.50	1	08/05/2017 22:23
1,3-Dichloropropane	ND	0.50	1	08/05/2017 22:23
2,2-Dichloropropane	ND	0.50	1	08/05/2017 22:23

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6	**1708048-002B**	**Water**	**08/01/2017 14:15**	**GC38**	**143252**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/05/2017 22:23
cis-1,3-Dichloropropene	ND	0.50	1	08/05/2017 22:23
trans-1,3-Dichloropropene	ND	0.50	1	08/05/2017 22:23
Diisopropyl ether (DIPE)	ND	0.50	1	08/05/2017 22:23
Ethylbenzene	ND	0.50	1	08/05/2017 22:23
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/05/2017 22:23
Freon 113	ND	0.50	1	08/05/2017 22:23
Hexachlorobutadiene	ND	0.50	1	08/05/2017 22:23
Hexachloroethane	ND	0.50	1	08/05/2017 22:23
2-Hexanone	ND	0.50	1	08/05/2017 22:23
Isopropylbenzene	ND	0.50	1	08/05/2017 22:23
4-Isopropyl toluene	ND	0.50	1	08/05/2017 22:23
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/05/2017 22:23
Methylene chloride	ND	0.50	1	08/05/2017 22:23
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/05/2017 22:23
Naphthalene	ND	0.50	1	08/05/2017 22:23
n-Propyl benzene	ND	0.50	1	08/05/2017 22:23
Styrene	ND	0.50	1	08/05/2017 22:23
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/05/2017 22:23
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/05/2017 22:23
Tetrachloroethene	ND	0.50	1	08/05/2017 22:23
Toluene	ND	0.50	1	08/05/2017 22:23
1,2,3-Trichlorobenzene	ND	0.50	1	08/05/2017 22:23
1,2,4-Trichlorobenzene	ND	0.50	1	08/05/2017 22:23
1,1,1-Trichloroethane	ND	0.50	1	08/05/2017 22:23
1,1,2-Trichloroethane	ND	0.50	1	08/05/2017 22:23
Trichloroethene	ND	0.50	1	08/05/2017 22:23
Trichlorofluoromethane	ND	0.50	1	08/05/2017 22:23
1,2,3-Trichloropropane	ND	0.50	1	08/05/2017 22:23
1,2,4-Trimethylbenzene	ND	0.50	1	08/05/2017 22:23
1,3,5-Trimethylbenzene	ND	0.50	1	08/05/2017 22:23
Vinyl Chloride	ND	0.50	1	08/05/2017 22:23
Xylenes, Total	ND	0.50	1	08/05/2017 22:23

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6	**1708048-002B**	**Water**	**08/01/2017 14:15**	**GC38**	**143252**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	117	70-130		08/05/2017 22:23
Toluene-d8	101	70-130		08/05/2017 22:23
4-BFB	78	70-130		08/05/2017 22:23

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7	1708048-003B	Water	08/01/2017 14:20	GC38	143252

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/05/2017 23:00
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/05/2017 23:00
Benzene	ND	0.50	1	08/05/2017 23:00
Bromobenzene	ND	0.50	1	08/05/2017 23:00
Bromochloromethane	ND	0.50	1	08/05/2017 23:00
Bromodichloromethane	ND	0.50	1	08/05/2017 23:00
Bromoform	ND	0.50	1	08/05/2017 23:00
Bromomethane	ND	0.50	1	08/05/2017 23:00
2-Butanone (MEK)	ND	2.0	1	08/05/2017 23:00
t-Butyl alcohol (TBA)	ND	2.0	1	08/05/2017 23:00
n-Butyl benzene	ND	0.50	1	08/05/2017 23:00
sec-Butyl benzene	ND	0.50	1	08/05/2017 23:00
tert-Butyl benzene	ND	0.50	1	08/05/2017 23:00
Carbon Disulfide	ND	0.50	1	08/05/2017 23:00
Carbon Tetrachloride	ND	0.50	1	08/05/2017 23:00
Chlorobenzene	ND	0.50	1	08/05/2017 23:00
Chloroethane	ND	0.50	1	08/05/2017 23:00
Chloroform	ND	0.50	1	08/05/2017 23:00
Chloromethane	ND	0.50	1	08/05/2017 23:00
2-Chlorotoluene	ND	0.50	1	08/05/2017 23:00
4-Chlorotoluene	ND	0.50	1	08/05/2017 23:00
Dibromochloromethane	ND	0.50	1	08/05/2017 23:00
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/05/2017 23:00
1,2-Dibromoethane (EDB)	ND	0.50	1	08/05/2017 23:00
Dibromomethane	ND	0.50	1	08/05/2017 23:00
1,2-Dichlorobenzene	ND	0.50	1	08/05/2017 23:00
1,3-Dichlorobenzene	ND	0.50	1	08/05/2017 23:00
1,4-Dichlorobenzene	ND	0.50	1	08/05/2017 23:00
Dichlorodifluoromethane	ND	0.50	1	08/05/2017 23:00
1,1-Dichloroethane	ND	0.50	1	08/05/2017 23:00
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/05/2017 23:00
1,1-Dichloroethene	ND	0.50	1	08/05/2017 23:00
cis-1,2-Dichloroethene	ND	0.50	1	08/05/2017 23:00
trans-1,2-Dichloroethene	ND	0.50	1	08/05/2017 23:00
1,2-Dichloropropane	ND	0.50	1	08/05/2017 23:00
1,3-Dichloropropane	ND	0.50	1	08/05/2017 23:00
2,2-Dichloropropane	ND	0.50	1	08/05/2017 23:00

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7	**1708048-003B**	**Water**	**08/01/2017 14:20**	**GC38**	**143252**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/05/2017 23:00
cis-1,3-Dichloropropene	ND	0.50	1	08/05/2017 23:00
trans-1,3-Dichloropropene	ND	0.50	1	08/05/2017 23:00
Diisopropyl ether (DIPE)	ND	0.50	1	08/05/2017 23:00
Ethylbenzene	ND	0.50	1	08/05/2017 23:00
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/05/2017 23:00
Freon 113	ND	0.50	1	08/05/2017 23:00
Hexachlorobutadiene	ND	0.50	1	08/05/2017 23:00
Hexachloroethane	ND	0.50	1	08/05/2017 23:00
2-Hexanone	ND	0.50	1	08/05/2017 23:00
Isopropylbenzene	ND	0.50	1	08/05/2017 23:00
4-Isopropyl toluene	ND	0.50	1	08/05/2017 23:00
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/05/2017 23:00
Methylene chloride	ND	0.50	1	08/05/2017 23:00
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/05/2017 23:00
Naphthalene	ND	0.50	1	08/05/2017 23:00
n-Propyl benzene	ND	0.50	1	08/05/2017 23:00
Styrene	ND	0.50	1	08/05/2017 23:00
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/05/2017 23:00
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/05/2017 23:00
Tetrachloroethene	ND	0.50	1	08/05/2017 23:00
Toluene	ND	0.50	1	08/05/2017 23:00
1,2,3-Trichlorobenzene	ND	0.50	1	08/05/2017 23:00
1,2,4-Trichlorobenzene	ND	0.50	1	08/05/2017 23:00
1,1,1-Trichloroethane	ND	0.50	1	08/05/2017 23:00
1,1,2-Trichloroethane	ND	0.50	1	08/05/2017 23:00
Trichloroethene	ND	0.50	1	08/05/2017 23:00
Trichlorofluoromethane	ND	0.50	1	08/05/2017 23:00
1,2,3-Trichloropropane	ND	0.50	1	08/05/2017 23:00
1,2,4-Trimethylbenzene	ND	0.50	1	08/05/2017 23:00
1,3,5-Trimethylbenzene	ND	0.50	1	08/05/2017 23:00
Vinyl Chloride	ND	0.50	1	08/05/2017 23:00
Xylenes, Total	ND	0.50	1	08/05/2017 23:00

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/5/17	**Analytical Method:**	SW8260B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7	**1708048-003B**	**Water**	**08/01/2017 14:20**	**GC38**	**143252**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	117	70-130		08/05/2017 23:00
Toluene-d8	101	70-130		08/05/2017 23:00
4-BFB	78	70-130		08/05/2017 23:00

Analyst(s): HK Analytical Comments: b1

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8021B/8015Bm
Project:	372927: 401 Jackson St., Oakland	**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
SB-5-9.5	1708048-006A	Soil	08/01/2017 14:06	GC7	143009

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/04/2017 09:23
MTBE	ND	0.050	1	08/04/2017 09:23
Benzene	ND	0.0050	1	08/04/2017 09:23
Toluene	ND	0.0050	1	08/04/2017 09:23
Ethylbenzene	ND	0.0050	1	08/04/2017 09:23
Xylenes	ND	0.015	1	08/04/2017 09:23

Surrogates	REC (%)	Limits	
2-Fluorotoluene	76	62-126	08/04/2017 09:23

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-7	1708048-008A	Soil	08/01/2017 13:27	GC7	143009

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/04/2017 09:54
MTBE	ND	0.050	1	08/04/2017 09:54
Benzene	ND	0.0050	1	08/04/2017 09:54
Toluene	ND	0.0050	1	08/04/2017 09:54
Ethylbenzene	ND	0.0050	1	08/04/2017 09:54
Xylenes	ND	0.015	1	08/04/2017 09:54

Surrogates	REC (%)	Limits	
2-Fluorotoluene	73	62-126	08/04/2017 09:54

Analyst(s): IA

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/1/17	**Analytical Method:**	SW8021B/8015Bm
Project:	372927: 401 Jackson St., Oakland	**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
SB-7-4.5	1708048-010A	Soil	08/01/2017 12:40	GC19	143009

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/05/2017 00:13
MTBE	ND	0.050	1	08/05/2017 00:13
Benzene	ND	0.0050	1	08/05/2017 00:13
Toluene	ND	0.0050	1	08/05/2017 00:13
Ethylbenzene	ND	0.0050	1	08/05/2017 00:13
Xylenes	ND	0.015	1	08/05/2017 00:13

Surrogates	REC (%)	Limits	
2-Fluorotoluene	75	62-126	08/05/2017 00:13

Analyst(s): IA

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/3/17	**Analytical Method:**	SW8021B/8015Bm
Project:	372927: 401 Jackson St., Oakland	**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
SB-5	1708048-001A	Water	08/01/2017 14:25	GC3	143100

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	08/03/2017 09:52
MTBE	ND	5.0	1	08/03/2017 09:52
Benzene	ND	0.50	1	08/03/2017 09:52
Toluene	ND	0.50	1	08/03/2017 09:52
Ethylbenzene	ND	0.50	1	08/03/2017 09:52
Xylenes	ND	1.5	1	08/03/2017 09:52

Surrogates	REC (%)	Limits	
aaa-TFT	96	89-115	08/03/2017 09:52

Analyst(s): IA Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6	1708048-002A	Water	08/01/2017 14:15	GC3	143100

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	08/03/2017 10:55
MTBE	ND	5.0	1	08/03/2017 10:55
Benzene	ND	0.50	1	08/03/2017 10:55
Toluene	ND	0.50	1	08/03/2017 10:55
Ethylbenzene	ND	0.50	1	08/03/2017 10:55
Xylenes	ND	1.5	1	08/03/2017 10:55

Surrogates	REC (%)	Limits	
aaa-TFT	97	89-115	08/03/2017 10:55

Analyst(s): IA Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW5030B
Date Prepared:	8/3/17	**Analytical Method:**	SW8021B/8015Bm
Project:	372927: 401 Jackson St., Oakland	**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
SB-7	**1708048-003A**	**Water**	**08/01/2017 14:20**	**GC3**	**143100**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	08/03/2017 10:24
MTBE	ND	5.0	1	08/03/2017 10:24
Benzene	ND	0.50	1	08/03/2017 10:24
Toluene	ND	0.50	1	08/03/2017 10:24
Ethylbenzene	ND	0.50	1	08/03/2017 10:24
Xylenes	ND	1.5	1	08/03/2017 10:24

Surrogates	REC (%)	Limits	
aaa-TFT	96	89-115	08/03/2017 10:24

Analyst(s): IA Analytical Comments: b1

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW3550B
Date Prepared:	8/1/17	**Analytical Method:**	SW8015B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-9.5	1708048-006A	Soil	08/01/2017 14:06	GC9b	142996

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/04/2017 12:46
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/04/2017 12:46

Surrogates	REC (%)	Limits	
C9	98	78-109	08/04/2017 12:46

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-7	1708048-008A	Soil	08/01/2017 13:27	GC39B	142996

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/04/2017 08:54
TPH-Motor Oil (C18-C36)	**5.8**	5.0	1	08/04/2017 08:54

Surrogates	REC (%)	Limits	
C9	98	78-109	08/04/2017 08:54

Analyst(s): TK Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-4.5	1708048-010A	Soil	08/01/2017 12:40	GC6A	143008

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/03/2017 13:49
TPH-Motor Oil (C18-C36)	**5.7**	5.0	1	08/03/2017 13:49

Surrogates	REC (%)	Limits	
C9	99	78-109	08/03/2017 13:49

Analyst(s): TK Analytical Comments: e7

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Received:	8/1/17 18:30	**Extraction Method:**	SW3510C
Date Prepared:	8/1/17	**Analytical Method:**	SW8015B
Project:	372927: 401 Jackson St., Oakland	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5	**1708048-001A**	**Water**	**08/01/2017 14:25**	**GC6B**	**142995**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**220**	150	1	08/07/2017 17:07
TPH-Motor Oil (C18-C36)	**6100**	750	1	08/07/2017 17:07

Surrogates	REC (%)	Limits	
C9	102	66-138	08/07/2017 17:07

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6	**1708048-002A**	**Water**	**08/01/2017 14:15**	**GC6B**	**142995**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**460**	300	2	08/07/2017 21:38
TPH-Motor Oil (C18-C36)	**15,000**	1500	2	08/07/2017 21:38

Surrogates	REC (%)	Limits	
C9	100	66-138	08/07/2017 21:38

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7	**1708048-003A**	**Water**	**08/01/2017 14:20**	**GC11B**	**142995**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3400**	3000	20	08/04/2017 09:43
TPH-Motor Oil (C18-C36)	**45,000**	15,000	20	08/04/2017 09:43

Surrogates	REC (%)	Limits	
C26	119	59-139	08/04/2017 09:43

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

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142969
Date Analyzed:	8/2/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142969 1708017-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.954	0.10	1	-	95	72-156
tert-Amyl methyl ether (TAME)	ND	0.0415	0.0050	0.050	-	83	53-116
Benzene	ND	0.0485	0.0050	0.050	-	97	63-137
Bromobenzene	ND	0.0512	0.0050	0.050	-	102	68-126
Bromochloromethane	ND	0.0481	0.0050	0.050	-	96	72-126
Bromodichloromethane	ND	0.0475	0.0050	0.050	-	95	61-127
Bromoform	ND	0.0354	0.0050	0.050	-	71	49-100
Bromomethane	ND	0.0439	0.0050	0.050	-	88	40-161
2-Butanone (MEK)	ND	0.159	0.020	0.20	-	79	43-157
t-Butyl alcohol (TBA)	ND	0.174	0.050	0.20	-	87	41-135
n-Butyl benzene	ND	0.0784	0.0050	0.050	-	157	102-160
sec-Butyl benzene	ND	0.0797	0.0050	0.050	-	159	74-168
tert-Butyl benzene	ND	0.0718	0.0050	0.050	-	144	88-157
Carbon Disulfide	ND	0.0484	0.0050	0.050	-	97	42-151
Carbon Tetrachloride	ND	0.0526	0.0050	0.050	-	105	49-149
Chlorobenzene	ND	0.0521	0.0050	0.050	-	104	77-121
Chloroethane	ND	0.0423	0.0050	0.050	-	85	41-134
Chloroform	ND	0.0471	0.0050	0.050	-	94	69-133
Chloromethane	ND	0.0430	0.0050	0.050	-	86	31-119
2-Chlorotoluene	ND	0.0656	0.0050	0.050	-	131	79-139
4-Chlorotoluene	ND	0.0619	0.0050	0.050	-	124	77-138
Dibromochloromethane	ND	0.0437	0.0050	0.050	-	87	58-121
1,2-Dibromo-3-chloropropane	ND	0.0132	0.0040	0.020	-	66	39-115
1,2-Dibromoethane (EDB)	ND	0.0488	0.0040	0.050	-	97	67-119
Dibromomethane	ND	0.0444	0.0050	0.050	-	89	66-117
1,2-Dichlorobenzene	ND	0.0480	0.0050	0.050	-	96	59-109
1,3-Dichlorobenzene	ND	0.0600	0.0050	0.050	-	120	75-130
1,4-Dichlorobenzene	ND	0.0571	0.0050	0.050	-	114	71-122
Dichlorodifluoromethane	ND	0.0279	0.0050	0.050	-	56	43-68
1,1-Dichloroethane	ND	0.0478	0.0050	0.050	-	96	62-139
1,2-Dichloroethane (1,2-DCA)	ND	0.0440	0.0040	0.050	-	88	58-135
1,1-Dichloroethene	ND	0.0490	0.0050	0.050	-	98	42-145
cis-1,2-Dichloroethene	ND	0.0454	0.0050	0.050	-	91	67-129
trans-1,2-Dichloroethene	ND	0.0582	0.0050	0.050	-	116	54-139
1,2-Dichloropropane	ND	0.0470	0.0050	0.050	-	94	68-125
1,3-Dichloropropane	ND	0.0480	0.0050	0.050	-	96	65-125
2,2-Dichloropropane	ND	0.0525	0.0050	0.050	-	105	45-151

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142969
Date Analyzed:	8/2/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142969 1708017-006AMS/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	0.0538	0.0050	0.050	-	108	64-138
cis-1,3-Dichloropropene	ND	0.0566	0.0050	0.050	-	113	62-134
trans-1,3-Dichloropropene	ND	0.0469	0.0050	0.050	-	94	59-128
Diisopropyl ether (DIPE)	ND	0.0446	0.0050	0.050	-	89	52-129
Ethylbenzene	ND	0.0553	0.0050	0.050	-	111	74-142
Ethyl tert-butyl ether (ETBE)	ND	0.0429	0.0050	0.050	-	86	53-125
Freon 113	ND	0.0421	0.0050	0.050	-	84	51-126
Hexachlorobutadiene	ND	0.0742	0.0050	0.050	-	148	70-158
Hexachloroethane	ND	0.0672	0.0050	0.050	-	134	80-160
2-Hexanone	ND	0.0357	0.0050	0.050	-	71	41-116
Isopropylbenzene	ND	0.0575	0.0050	0.050	-	115	77-146
4-Isopropyl toluene	ND	0.0784	0.0050	0.050	-	157	96-159
Methyl-t-butyl ether (MTBE)	ND	0.0420	0.0050	0.050	-	84	58-122
Methylene chloride	ND	0.0480	0.0050	0.050	-	96	58-135
4-Methyl-2-pentanone (MIBK)	ND	0.0362	0.0050	0.050	-	72	40-112
Naphthalene	ND	0.0265	0.0050	0.050	-	53	23-73
n-Propyl benzene	ND	0.0753	0.0050	0.050	-	151	82-160
Styrene	ND	0.0533	0.0050	0.050	-	107	68-124
1,1,1,2-Tetrachloroethane	ND	0.0504	0.0050	0.050	-	101	70-128
1,1,2,2-Tetrachloroethane	ND	0.0419	0.0050	0.050	-	84	57-111
Tetrachloroethene	ND	0.0631	0.0050	0.050	-	126	73-145
Toluene	ND	0.0572	0.0050	0.050	-	114	76-130
1,2,3-Trichlorobenzene	ND	0.0334	0.0050	0.050	-	67	43-72
1,2,4-Trichlorobenzene	ND	0.0430	0.0050	0.050	-	86	47-95
1,1,1-Trichloroethane	ND	0.0512	0.0050	0.050	-	102	60-141
1,1,2-Trichloroethane	ND	0.0490	0.0050	0.050	-	98	62-118
Trichloroethene	ND	0.0569	0.0050	0.050	-	114	72-132
Trichlorofluoromethane	ND	0.0431	0.0050	0.050	-	86	43-135
1,2,3-Trichloropropane	ND	0.0462	0.0050	0.050	-	93	57-122
1,2,4-Trimethylbenzene	ND	0.0698	0.0050	0.050	-	140	81-152
1,3,5-Trimethylbenzene	ND	0.0705	0.0050	0.050	-	141	78-160
Vinyl Chloride	ND	0.0431	0.0050	0.050	-	86	42-131
Xylenes, Total	ND	0.166	0.0050	0.15	-	110	70-130

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142969
Date Analyzed:	8/2/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142969 1708017-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.1265	0.129		0.12	101	103	70-130
Toluene-d8	0.1484	0.146		0.12	119	117	70-130
4-BFB	0.01481	0.0134		0.012	118	108	70-130
Benzene-d6	0.08016	0.0908		0.10	80	91	60-140
Ethylbenzene-d10	0.1007	0.105		0.10	101	105	60-140
1,2-DCB-d4	0.08066	0.0929		0.10	81	93	60-140

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142969
Date Analyzed:	8/2/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142969 1708017-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.952	0.905	1	ND	95	90	72-156	5.03	20
tert-Amyl methyl ether (TAME)	0.0406	0.0390	0.050	ND	81	78	53-116	3.91	20
Benzene	0.0482	0.0448	0.050	ND	96	90	63-137	7.30	20
Bromobenzene	0.0491	0.0451	0.050	ND	98	90	68-126	8.52	20
Bromochloromethane	0.0446	0.0422	0.050	ND	89	84	72-126	5.58	20
Bromodichloromethane	0.0468	0.0439	0.050	ND	94	88	61-127	6.28	20
Bromoform	0.0342	0.0323	0.050	ND	68	65	49-100	5.84	20
Bromomethane	0.0430	0.0395	0.050	ND	86	79	40-161	8.46	20
2-Butanone (MEK)	0.175	0.168	0.20	ND	87	84	43-157	3.77	20
t-Butyl alcohol (TBA)	0.178	0.169	0.20	ND	89	84	41-135	5.43	20
n-Butyl benzene	0.0751	0.0665	0.050	ND	150	133	102-160	12.2	20
sec-Butyl benzene	0.0744	0.0653	0.050	ND	149	131	74-168	13.0	20
tert-Butyl benzene	0.0676	0.0606	0.050	ND	135	121	88-157	11.0	20
Carbon Disulfide	0.0539	0.0500	0.050	ND	108	100	42-151	7.43	20
Carbon Tetrachloride	0.0549	0.0508	0.050	ND	110	102	49-149	7.75	20
Chlorobenzene	0.0474	0.0437	0.050	ND	95	87	77-121	8.09	20
Chloroethane	0.0440	0.0398	0.050	ND	88	80	41-134	9.98	20
Chloroform	0.0488	0.0449	0.050	ND	98	90	69-133	8.27	20
Chloromethane	0.0420	0.0375	0.050	ND	84	75	31-119	11.3	20
2-Chlorotoluene	0.0558	0.0521	0.050	ND	112	104	79-139	6.94	20
4-Chlorotoluene	0.0536	0.0489	0.050	ND	107	98	77-138	9.15	20
Dibromochloromethane	0.0419	0.0393	0.050	ND	84	79	58-121	6.42	20
1,2-Dibromo-3-chloropropane	0.0186	0.0188	0.020	ND	93	94	39-115	1.15	20
1,2-Dibromoethane (EDB)	0.0475	0.0448	0.050	ND	95	90	67-119	5.82	20
Dibromomethane	0.0433	0.0407	0.050	ND	87	81	66-117	6.31	20
1,2-Dichlorobenzene	0.0401	0.0380	0.050	ND	80	76	59-109	5.55	20
1,3-Dichlorobenzene	0.0510	0.0470	0.050	ND	102	94	75-130	8.30	20
1,4-Dichlorobenzene	0.0471	0.0440	0.050	ND	94	88	71-122	6.67	20
Dichlorodifluoromethane	0.0230	0.0210	0.050	ND	46	42,F1	43-68	9.02	20
1,1-Dichloroethane	0.0502	0.0462	0.050	ND	100	92	62-139	8.35	20
1,2-Dichloroethane (1,2-DCA)	0.0458	0.0433	0.050	ND	92	86	58-135	5.75	20
1,1-Dichloroethene	0.0486	0.0453	0.050	ND	97	91	42-145	7.16	20
cis-1,2-Dichloroethene	0.0479	0.0441	0.050	ND	96	88	67-129	8.13	20
trans-1,2-Dichloroethene	0.0481	0.0448	0.050	ND	96	90	54-139	6.99	20
1,2-Dichloropropane	0.0468	0.0437	0.050	ND	94	87	68-125	6.96	20
1,3-Dichloropropane	0.0482	0.0457	0.050	ND	96	91	65-125	5.46	20
2,2-Dichloropropane	0.0539	0.0504	0.050	ND	108	101	45-151	6.68	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142969
Date Analyzed:	8/2/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142969 1708017-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0515	0.0482	0.050	ND	103	96	64-138	6.59	20
cis-1,3-Dichloropropene	0.0538	0.0491	0.050	ND	108	98	62-134	9.12	20
trans-1,3-Dichloropropene	0.0473	0.0439	0.050	ND	95	88	59-128	7.32	20
Diisopropyl ether (DIPE)	0.0462	0.0431	0.050	ND	92	86	52-129	6.93	20
Ethylbenzene	0.0553	0.0506	0.050	ND	111	101	74-142	8.95	20
Ethyl tert-butyl ether (ETBE)	0.0451	0.0427	0.050	ND	90	85	53-125	5.47	20
Freon 113	0.0426	0.0397	0.050	ND	85	79	51-126	7.12	20
Hexachlorobutadiene	0.0703	0.0659	0.050	ND	141	132	70-158	6.49	20
Hexachloroethane	0.0576	0.0531	0.050	ND	109	100	80-160	8.20	20
2-Hexanone	0.0414	0.0393	0.050	ND	83	79	41-116	5.19	20
Isopropylbenzene	0.0571	0.0516	0.050	ND	114	103	77-146	10.0	20
4-Isopropyl toluene	0.0674	0.0602	0.050	ND	135	120	96-159	11.3	20
Methyl-t-butyl ether (MTBE)	0.0422	0.0404	0.050	ND	84	81	58-122	4.35	20
Methylene chloride	0.0504	0.0471	0.050	ND	101	94	58-135	6.88	20
4-Methyl-2-pentanone (MIBK)	0.0425	0.0396	0.050	ND	85	79	40-112	7.25	20
Naphthalene	0.0247	0.0250	0.050	ND	49	50	23-73	1.17	20
n-Propyl benzene	0.0665	0.0603	0.050	ND	133	121	82-160	9.72	20
Styrene	0.0469	0.0445	0.050	ND	94	89	68-124	5.31	20
1,1,1,2-Tetrachloroethane	0.0509	0.0481	0.050	ND	102	96	70-128	5.63	20
1,1,2,2-Tetrachloroethane	0.0473	0.0447	0.050	ND	95	89	57-111	5.68	20
Tetrachloroethene	0.0572	0.0524	0.050	ND	114	105	73-145	8.70	20
Toluene	0.0534	0.0485	0.050	ND	107	97	76-130	9.66	20
1,2,3-Trichlorobenzene	0.0319	0.0308	0.050	ND	64	62	43-72	3.64	20
1,2,4-Trichlorobenzene	0.0406	0.0388	0.050	ND	81	78	47-95	4.72	20
1,1,1-Trichloroethane	0.0528	0.0489	0.050	ND	106	98	60-141	7.77	20
1,1,2-Trichloroethane	0.0465	0.0440	0.050	ND	93	88	62-118	5.55	20
Trichloroethene	0.184	0.156	0.050	0.05435	260,F1	203,F1	72-132	16.6	20
Trichlorofluoromethane	0.0466	0.0435	0.050	ND	93	87	43-135	6.89	20
1,2,3-Trichloropropane	0.0506	0.0472	0.050	ND	101	94	57-122	7.08	20
1,2,4-Trimethylbenzene	0.0615	0.0554	0.050	ND	123	111	81-152	10.4	20
1,3,5-Trimethylbenzene	0.0652	0.0587	0.050	ND	130	117	78-160	10.5	20
Vinyl Chloride	0.0449	0.0401	0.050	ND	90	80	42-131	11.3	20
Xylenes, Total	0.154	0.142	0.15	ND	102	95	70-130	7.65	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142969
Date Analyzed:	8/2/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142969 1708017-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.124	0.126	0.12		99	101	70-130	1.78	20
Toluene-d8	0.142	0.141	0.12		114	112	70-130	1.23	20
4-BFB	0.0134	0.0136	0.012		108	109	70-130	1.10	20
Benzene-d6	0.0911	0.0842	0.10		91	84	60-140	7.85	20
Ethylbenzene-d10	0.122	0.108	0.10		122	108	60-140	12.0	20
1,2-DCB-d4	0.0860	0.0821	0.10		86	82	60-140	4.55	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/5/17	**BatchID:**	143252
Date Analyzed:	8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143252 1708285-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	184	10	200	-	92	46-155
tert-Amyl methyl ether (TAME)	ND	7.62	0.50	10	-	76	54-140
Benzene	ND	9.16	0.50	10	-	92	47-158
Bromobenzene	ND	8.35	0.50	10	-	83	50-155
Bromochloromethane	ND	9.07	0.50	10	-	91	48-160
Bromodichloromethane	ND	8.32	0.50	10	-	83	60-156
Bromoform	ND	7.75	0.50	10	-	78	43-149
Bromomethane	ND	11.0	0.50	10	-	110	61-159
2-Butanone (MEK)	ND	36.1	2.0	40	-	90	61-124
t-Butyl alcohol (TBA)	ND	27.6	2.0	40	-	69	42-140
n-Butyl benzene	ND	9.56	0.50	10	-	96	74-138
sec-Butyl benzene	ND	9.92	0.50	10	-	99	72-142
tert-Butyl benzene	ND	9.13	0.50	10	-	91	74-140
Carbon Disulfide	ND	8.43	0.50	10	-	84	64-127
Carbon Tetrachloride	ND	8.28	0.50	10	-	83	61-158
Chlorobenzene	ND	8.80	0.50	10	-	88	43-157
Chloroethane	ND	9.15	0.50	10	-	91	50-127
Chloroform	ND	8.69	0.50	10	-	87	56-154
Chloromethane	ND	8.55	0.50	10	-	86	41-132
2-Chlorotoluene	ND	8.90	0.50	10	-	89	50-155
4-Chlorotoluene	ND	8.55	0.50	10	-	86	53-153
Dibromochloromethane	ND	7.47	0.50	10	-	75	49-156
1,2-Dibromo-3-chloropropane	ND	2.74	0.20	4	-	68	46-149
1,2-Dibromoethane (EDB)	ND	8.16	0.50	10	-	82	44-155
Dibromomethane	ND	8.42	0.50	10	-	84	50-157
1,2-Dichlorobenzene	ND	8.76	0.50	10	-	88	48-156
1,3-Dichlorobenzene	ND	9.32	0.50	10	-	93	49-159
1,4-Dichlorobenzene	ND	9.04	0.50	10	-	90	51-151
Dichlorodifluoromethane	ND	6.26	0.50	10	-	63	61-117
1,1-Dichloroethane	ND	9.52	0.50	10	-	95	53-153
1,2-Dichloroethane (1,2-DCA)	ND	8.86	0.50	10	-	89	66-125
1,1-Dichloroethene	ND	8.69	0.50	10	-	87	47-149
cis-1,2-Dichloroethene	ND	9.05	0.50	10	-	90	54-155
trans-1,2-Dichloroethene	ND	8.87	0.50	10	-	89	46-151
1,2-Dichloropropane	ND	9.10	0.50	10	-	91	54-153
1,3-Dichloropropane	ND	8.36	0.50	10	-	84	49-150
2,2-Dichloropropane	ND	8.43	0.50	10	-	84	74-147

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/5/17	**BatchID:**	143252
Date Analyzed:	8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143252 1708285-001CMS/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	8.96	0.50	10	-	90	54-150
cis-1,3-Dichloropropene	ND	8.00	0.50	10	-	80	55-159
trans-1,3-Dichloropropene	ND	8.09	0.50	10	-	81	74-131
Diisopropyl ether (DIPE)	ND	9.03	0.50	10	-	90	57-136
Ethylbenzene	ND	9.01	0.50	10	-	90	60-152
Ethyl tert-butyl ether (ETBE)	ND	8.67	0.50	10	-	87	55-137
Freon 113	ND	8.65	0.50	10	-	86	47-138
Hexachlorobutadiene	ND	8.25	0.50	10	-	83	66-160
Hexachloroethane	ND	7.70	0.50	10	-	77	75-130
2-Hexanone	ND	7.72	0.50	10	-	77	70-115
Isopropylbenzene	ND	8.88	0.50	10	-	89	59-156
4-Isopropyl toluene	ND	9.47	0.50	10	-	95	75-138
Methyl-t-butyl ether (MTBE)	ND	7.96	0.50	10	-	80	53-139
Methylene chloride	ND	8.35	0.50	10	-	84	66-127
4-Methyl-2-pentanone (MIBK)	ND	7.09	0.50	10	-	71	42-153
Naphthalene	ND	7.95	0.50	10	-	80	66-127
n-Propyl benzene	ND	9.38	0.50	10	-	94	54-155
Styrene	ND	8.95	0.50	10	-	90	51-152
1,1,1,2-Tetrachloroethane	ND	8.24	0.50	10	-	82	58-159
1,1,2,2-Tetrachloroethane	ND	7.84	0.50	10	-	78	51-150
Tetrachloroethene	ND	8.62	0.50	10	-	86	55-145
Toluene	ND	8.48	0.50	10	-	85	52-137
1,2,3-Trichlorobenzene	ND	8.25	0.50	10	-	83	70-136
1,2,4-Trichlorobenzene	ND	8.40	0.50	10	-	84	74-137
1,1,1-Trichloroethane	ND	8.68	0.50	10	-	87	57-156
1,1,2-Trichloroethane	ND	8.32	0.50	10	-	83	51-150
Trichloroethene	ND	8.69	0.50	10	-	87	43-157
Trichlorofluoromethane	ND	8.54	0.50	10	-	85	50-147
1,2,3-Trichloropropane	ND	8.36	0.50	10	-	84	41-152
1,2,4-Trimethylbenzene	ND	9.41	0.50	10	-	94	57-157
1,3,5-Trimethylbenzene	ND	9.18	0.50	10	-	92	56-159
Vinyl Chloride	ND	9.02	0.50	10	-	90	42-137
Xylenes, Total	ND	27.8	0.50	30	-	93	70-130

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/5/17	**BatchID:**	143252
Date Analyzed:	8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143252 1708285-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	28.52	29.0		25	114	116	70-130
Toluene-d8	25.81	25.9		25	103	104	70-130
4-BFB	1.974	2.08		2.5	79	83	70-130

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/5/17	**BatchID:**	143252
Date Analyzed:	8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143252 1708285-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	238	248	200	ND	117	122	66-158	4.11	20
tert-Amyl methyl ether (TAME)	9.06	9.40	10	ND	91	94	69-139	3.68	20
Benzene	9.91	10.0	10	ND	99	100	69-141	1.19	20
Bromobenzene	9.07	9.18	10	ND	91	92	70-127	1.27	20
Bromochloromethane	10.2	10.5	10	ND	102	105	72-142	2.38	20
Bromodichloromethane	9.48	9.62	10	ND	95	96	75-141	1.50	20
Bromoform	9.64	9.88	10	ND	96	99	72-126	2.39	20
Bromomethane	2.41	3.70	10	ND	24,F1	37,F1	50-160	42.1,F1	20
2-Butanone (MEK)	48.8	50.8	40	ND	122	127	69-154	4.07	20
t-Butyl alcohol (TBA)	35.7	40.8	40	ND	89	102	41-152	13.4	20
n-Butyl benzene	10.7	10.7	10	ND	107	107	70-134	0	20
sec-Butyl benzene	10.4	10.5	10	ND	104	105	73-131	0.831	20
tert-Butyl benzene	9.49	9.66	10	ND	95	97	71-125	1.82	20
Carbon Disulfide	9.17	9.33	10	ND	92	93	63-158	1.73	20
Carbon Tetrachloride	9.76	9.86	10	ND	98	99	72-143	1.02	20
Chlorobenzene	9.45	9.48	10	ND	95	95	77-120	0	20
Chloroethane	10.0	10.1	10	ND	100	101	54-131	0.375	20
Chloroform	9.54	9.78	10	ND	95	98	75-139	2.43	20
Chloromethane	7.59	7.79	10	ND	76	78	40-130	2.54	20
2-Chlorotoluene	9.41	9.48	10	ND	94	95	70-122	0.744	20
4-Chlorotoluene	9.14	9.20	10	ND	91	92	71-123	0.622	20
Dibromochloromethane	8.81	8.92	10	ND	88	89	78-132	1.31	20
1,2-Dibromo-3-chloropropane	3.63	3.83	4	ND	91	96	59-143	5.27	20
1,2-Dibromoethane (EDB)	9.63	9.78	10	ND	96	98	76-135	1.55	20
Dibromomethane	10.1	10.2	10	ND	101	102	78-135	1.02	20
1,2-Dichlorobenzene	9.68	9.89	10	ND	97	99	68-133	2.14	20
1,3-Dichlorobenzene	9.92	10.1	10	ND	99	101	78-122	1.64	20
1,4-Dichlorobenzene	9.63	9.86	10	ND	96	99	80-117	2.34	20
Dichlorodifluoromethane	6.99	6.77	10	ND	70	68	38-125	3.23	20
1,1-Dichloroethane	10.3	10.4	10	ND	103	104	65-152	1.61	20
1,2-Dichloroethane (1,2-DCA)	10.3	10.4	10	ND	103	104	73-139	1.82	20
1,1-Dichloroethene	9.36	9.48	10	ND	94	95	59-140	1.24	20
cis-1,2-Dichloroethene	9.82	10.0	10	ND	98	100	50-154	1.99	20
trans-1,2-Dichloroethene	9.60	9.78	10	ND	96	98	69-136	1.79	20
1,2-Dichloropropane	10.2	10.2	10	ND	102	102	78-132	0	20
1,3-Dichloropropane	9.60	9.76	10	ND	96	98	77-131	1.58	20
2,2-Dichloropropane	8.68	9.26	10	ND	87	93	61-160	6.54	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/5/17	**BatchID:**	143252
Date Analyzed:	8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143252 1708285-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	9.54	9.66	10	ND	95	97	70-137	1.24	20
cis-1,3-Dichloropropene	9.00	9.04	10	ND	90	90	78-135	0	20
trans-1,3-Dichloropropene	9.43	9.39	10	ND	94	94	78-131	0	20
Diisopropyl ether (DIPE)	10.2	10.4	10	ND	102	104	72-140	2.53	20
Ethylbenzene	9.48	9.56	10	ND	95	96	73-128	0.881	20
Ethyl tert-butyl ether (ETBE)	10.0	10.4	10	ND	100	104	71-140	3.44	20
Freon 113	9.29	9.46	10	ND	93	95	60-136	1.83	20
Hexachlorobutadiene	8.42	8.63	10	ND	84	86	56-132	2.48	20
Hexachloroethane	8.54	8.65	10	ND	85	87	61-129	1.35	20
2-Hexanone	10.4	10.9	10	ND	104	109	57-149	4.34	20
Isopropylbenzene	9.28	9.39	10	ND	93	94	69-130	1.11	20
4-Isopropyl toluene	10.1	10.2	10	ND	101	102	75-124	1.72	20
Methyl-t-butyl ether (MTBE)	9.51	9.89	10	ND	95	99	73-139	3.93	20
Methylene chloride	9.18	9.42	10	ND	92	94	74-128	2.49	20
4-Methyl-2-pentanone (MIBK)	9.31	9.67	10	ND	93	97	61-145	3.74	20
Naphthalene	9.72	10.1	10	ND	97	101	54-148	4.12	20
n-Propyl benzene	9.84	9.94	10	ND	98	99	71-121	0.994	20
Styrene	9.62	9.83	10	ND	96	98	56-140	2.09	20
1,1,1,2-Tetrachloroethane	9.07	9.19	10	ND	91	92	74-127	1.29	20
1,1,2,2-Tetrachloroethane	9.58	9.86	10	ND	96	99	63-142	2.86	20
Tetrachloroethene	9.02	9.06	10	ND	90	91	71-125	0.513	20
Toluene	9.02	9.10	10	ND	90	91	71-128	0.861	20
1,2,3-Trichlorobenzene	9.43	9.76	10	ND	94	98	59-135	3.43	20
1,2,4-Trichlorobenzene	9.52	9.76	10	ND	95	98	60-132	2.52	20
1,1,1-Trichloroethane	9.35	9.50	10	ND	94	95	75-138	1.53	20
1,1,2-Trichloroethane	9.64	9.81	10	ND	96	98	78-129	1.69	20
Trichloroethene	9.42	9.46	10	ND	94	95	64-132	0.464	20
Trichlorofluoromethane	9.20	9.36	10	ND	92	94	53-159	1.74	20
1,2,3-Trichloropropane	10.3	10.6	10	ND	103	106	68-130	2.69	20
1,2,4-Trimethylbenzene	10.0	10.3	10	ND	100	103	76-124	2.61	20
1,3,5-Trimethylbenzene	9.68	9.80	10	ND	97	98	77-124	1.30	20
Vinyl Chloride	8.14	8.29	10	ND	81	83	43-142	1.85	20
Xylenes, Total	29.5	30.0	30	ND	98	100	70-130	1.67	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/5/17	**BatchID:**	143252
Date Analyzed:	8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143252 1708285-001CMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	30.0	30.2	25		120	121	73-131	0.487	20
Toluene-d8	25.4	25.3	25		102	101	72-117	0.419	20
4-BFB	2.07	2.10	2.5		83	84	74-116	1.46	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	143009
Date Analyzed:	8/2/17	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143009 1708048-006AMS/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	0.616	0.40	0.60	-	103	82-118
MTBE	ND	0.105	0.050	0.10	-	105	61-119
Benzene	ND	0.105	0.0050	0.10	-	105	77-128
Toluene	ND	0.113	0.0050	0.10	-	113	74-132
Ethylbenzene	ND	0.109	0.0050	0.10	-	109	84-127
Xylenes	ND	0.327	0.015	0.30	-	109	86-129
Surrogate Recovery							
2-Fluorotoluene	0.08545	0.0895		0.10	85	89	75-134

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.545	0.501	0.60	ND	91	83	58-129	8.48	20
MTBE	0.0879	0.0864	0.10	ND	79	77	47-118	1.69	20
Benzene	0.0863	0.0912	0.10	ND	86	91	55-129	5.48	20
Toluene	0.0965	0.0972	0.10	ND	95	96	56-130	0.751	20
Ethylbenzene	0.0921	0.0940	0.10	ND	92	94	63-129	2.00	20
Xylenes	0.278	0.281	0.30	ND	92	93	64-131	1.26	20
Surrogate Recovery									
2-Fluorotoluene	0.0793	0.0801	0.10		79	80	62-126	0.972	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/2/17	**BatchID:**	143100
Date Analyzed:	8/2/17	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143100 1707B93-001AMS/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	58.7	40	60	-	98	78-116
MTBE	ND	8.54	5.0	10	-	85	72-122
Benzene	ND	8.59	0.50	10	-	86	81-123
Toluene	ND	9.01	0.50	10	-	90	83-129
Ethylbenzene	ND	9.47	0.50	10	-	95	88-126
Xylenes	ND	29.5	1.5	30	-	98	87-131
Surrogate Recovery							
aaa-TFT	9.639	9.21		10	96	92	89-116

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	58.0	59.0	60	ND	97	98	63-133	1.64	20
MTBE	9.07	9.42	10	ND	91	94	69-122	3.70	20
Benzene	8.73	8.93	10	ND	87	89	84-125	2.24	20
Toluene	9.18	9.35	10	ND	92	94	87-131	1.90	20
Ethylbenzene	9.68	9.76	10	ND	97	98	92-126	0.718	20
Xylenes	30.1	30.3	30	ND	100	101	88-132	0.496	20
Surrogate Recovery									
aaa-TFT	9.41	9.43	10		94	94	90-117	0	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142996
Date Analyzed:	8/2/17 - 8/3/17	**Extraction Method:**	SW3550B
Instrument:	GC6A, GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-142996 1708041-008AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.5	1.0	40	-	116	79-133
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.27	21.9		25	93	87	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)	45.0	33.8	40	ND	113	84	59-150	28.6	30
Surrogate Recovery									
C9	23.9	24.0	25		96	96	78-109	0	30
C26	23.7	23.7	25		95	95	70-130	0	30

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	143008
Date Analyzed:	8/2/17 - 8/3/17	**Extraction Method:**	SW3550B
Instrument:	GC39A, GC39B, GC6A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS-143008 1708048-010AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.6	1.0	40	-	104	79-133
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	27.17	22.7		25	109,F3	91	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)	43.5	43.1	40	ND	109	108	59-150	0.924	30
Surrogate Recovery									
C9	23.2	23.1	25		93	93	78-109	0	30

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708048
Date Prepared:	8/1/17	**BatchID:**	142995
Date Analyzed:	8/2/17	**Extraction Method:**	SW3510C
Instrument:	GC11B, GC39A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	372927: 401 Jackson St., Oakland	**Sample ID:**	MB/LCS/LCSD-142995

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	672.8		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)	1100	1090	1000	110	109	88-134	0.692	30
Surrogate Recovery								
C9	688	667	625	110	107	79-111	3.13	30

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1708048 **ClientCode: AEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
William Hicks
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 321-3561 FAX: (925) 944-2895

Email: whix@aeiconsultants.com
cc/3rd Party: tweise@aeiconsultants.com;
PO: 138748
ProjectNo: 372927: 401 Jackson St., Oakland

Bill to:
Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: **08/01/2017**
Date Logged: **08/01/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1708048-001	SB-5	Water	8/1/2017 14:25	☐		B		A		A						
1708048-002	SB-6	Water	8/1/2017 14:15	☐		B		A		A						
1708048-003	SB-7	Water	8/1/2017 14:20	☐		B		A		A						
1708048-006	SB-5-9.5	Soil	8/1/2017 14:06	☐	A		A		A							
1708048-008	SB-6-7	Soil	8/1/2017 13:27	☐	A		A		A							
1708048-010	SB-7-4.5	Soil	8/1/2017 12:40	☐	A		A		A							

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W
5	TPH(DMO)_S	6	TPH(DMO)_W	7		8	
9		10		11		12	

Prepared by: Kena Ponce

The following SampIDs: 006A, 008A, 010A contain testgroup Multi Range_S.; The following SampIDs: 001A, 002A, 003A contain testgroup Multi Range_W.

Comments:

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

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: AEI CONSULTANTS
Client Contact: William Hicks
Contact's Email: whix@aeiconsultants.com
Project: 372927: 401 Jackson St.
Comments:
Work Order: 1708048
QC Level: LEVEL 2
Date Logged: 8/1/2017

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1708048-001A	SB-5	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/1/2017 14:25	5 days	2%+	☐	
1708048-001B	SB-5	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/1/2017 14:25	5 days	2%+	☐	
1708048-002A	SB-6	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/1/2017 14:15	5 days	2%+	☐	
1708048-002B	SB-6	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/1/2017 14:15	5 days	2%+	☐	
1708048-003A	SB-7	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	8/1/2017 14:20	5 days	2%+	☐	
1708048-003B	SB-7	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/1/2017 14:20	5 days	2%+	☐	
1708048-004A	SB-5-4.5	Soil		1	Acetate Liner	☐	8/1/2017 14:00			☑	
1708048-005A	SB-5-7	Soil		1	Acetate Liner	☐	8/1/2017 14:09			☑	
1708048-006A	SB-5-9.5	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm	1	Acetate Liner	☐	8/1/2017 14:06	5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1708048-007A	SB-6-4.5	Soil		1	Acetate Liner	☐	8/1/2017 13:16			☑	
1708048-008A	SB-6-7	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm	1	Acetate Liner	☐	8/1/2017 13:27	5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1708048-009A	SB-6-9.5	Soil		1	Acetate Liner	☐	8/1/2017 13:22			☑	

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: AEI CONSULTANTS
Client Contact: William Hicks
Contact's Email: whix@aeiconsultants.com

Project: 372927: 401 Jackson St.
Comments:

Work Order: 1708048
QC Level: LEVEL 2
Date Logged: 8/1/2017

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1708048-010A	SB-7-4.5	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm	1	Acetate Liner	☐	8/1/2017 12:40	5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1708048-011A	SB-7-7	Soil		1	Acetate Liner	☐	8/1/2017 12:47			☑	
1708048-012A	SB-7-9	Soil		1	Acetate Liner	☐	8/1/2017 12:44			☑	

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 # 1708048

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

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: AEI Consultants Bill To: AEI Consultants
Company: AEI Consultants
Email: whix@aeiconsultants.com
Alt Email: twelse@aeiconsultants.com Tele: 925-746-6050
Project Name/#: 372927
Project Location: 401 Jackson Street, Oakland PO #138748
Sampler Signature:

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	TPH multirange b 8015M	VOCs by 8260B	Hold
SB-5	8/1/17	1425	6	GW	HCl/ICE	X	X	
SB-6		1415	6	GW		X	X	
SB-7		1420	6	GW		X	X	
SB-5-4.5		1400	1	Soil	TCE			X
SB-5-7		1409	1					X
SB-5-9.5		1406	1			X	X	
SB-6-4.5		1316	1					X
SB-6-7		1327	1			X	X	
SB-6-9.5		1322	1					X
SB-14.5		1240	1			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. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
	8/1/17	1715		8/1/17	1715
	8/1	1830		8/1/17	1830

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 7.2 °C Initials

Page 1 of 2

General COC

MAI Work Order # _____

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

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: AEI Consultants | Bill To: AEI Consultants
Company: AEI Consultants
Email: whix@aeiconsultants.com
Alt Email: twelse@aeiconsultants.com | Tele: 925-746-6050
Project Name/#: 372927
Project Location: 401 Jackson Street, Oakland | PO #138748
Sampler Signature:

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	TPH multirange b 8015M	VOCs by 8260B	Hold
SB-7-1	8/1/17	1247	1	Soil	ICE			X
SB-7-9	"	1244	1	Soil	ICE			X

Analysis Requested

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. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
	8/1/17	1715		8/1/17	1715
	8/1	1830		8/1/17	1830

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 2.2 °C Initials _____

Page 2 of 2

McCampbell Analytical, Inc.
"When Quality Counts"

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

Sample Receipt Checklist

Client Name:	**AEI Consultants**	Date and Time Received	**8/1/2017 18:30**
Project Name:	**372927: 401 Jackson St.**	Date Logged:	**8/1/2017**
		Received by:	Kena Ponce
WorkOrder №:	**1708048** 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: 12.2°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)				

UCMR 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:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1708218

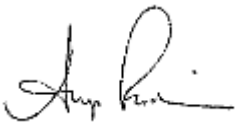
Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: 138748
Project Name: 372927; 401 Jackson St, Oakland, CA

Project Received: 08/03/2017

Analytical Report reviewed & approved for release on 08/09/2017 by:



Angela Rydelius,
Laboratory Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

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: AEI Consultants
Project: 372927; 401 Jackson St, Oakland, CA
WorkOrder: 1708218

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)

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment

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: AEI Consultants
Project: 372927; 401 Jackson St, Oakland, CA
WorkOrder: 1708218

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/3/17	**Analytical Method:**	SW8260B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8-8.5	1708218-002A	Soil	08/03/2017 13:10	GC28	143128

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/08/2017 15:20
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/08/2017 15:20
Benzene	ND	0.0050	1	08/08/2017 15:20
Bromobenzene	ND	0.0050	1	08/08/2017 15:20
Bromochloromethane	ND	0.0050	1	08/08/2017 15:20
Bromodichloromethane	ND	0.0050	1	08/08/2017 15:20
Bromoform	ND	0.0050	1	08/08/2017 15:20
Bromomethane	ND	0.0050	1	08/08/2017 15:20
2-Butanone (MEK)	ND	0.020	1	08/08/2017 15:20
t-Butyl alcohol (TBA)	ND	0.050	1	08/08/2017 15:20
n-Butyl benzene	ND	0.0050	1	08/08/2017 15:20
sec-Butyl benzene	ND	0.0050	1	08/08/2017 15:20
tert-Butyl benzene	ND	0.0050	1	08/08/2017 15:20
Carbon Disulfide	ND	0.0050	1	08/08/2017 15:20
Carbon Tetrachloride	ND	0.0050	1	08/08/2017 15:20
Chlorobenzene	ND	0.0050	1	08/08/2017 15:20
Chloroethane	ND	0.0050	1	08/08/2017 15:20
Chloroform	ND	0.0050	1	08/08/2017 15:20
Chloromethane	ND	0.0050	1	08/08/2017 15:20
2-Chlorotoluene	ND	0.0050	1	08/08/2017 15:20
4-Chlorotoluene	ND	0.0050	1	08/08/2017 15:20
Dibromochloromethane	ND	0.0050	1	08/08/2017 15:20
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/08/2017 15:20
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/08/2017 15:20
Dibromomethane	ND	0.0050	1	08/08/2017 15:20
1,2-Dichlorobenzene	ND	0.0050	1	08/08/2017 15:20
1,3-Dichlorobenzene	ND	0.0050	1	08/08/2017 15:20
1,4-Dichlorobenzene	ND	0.0050	1	08/08/2017 15:20
Dichlorodifluoromethane	ND	0.0050	1	08/08/2017 15:20
1,1-Dichloroethane	ND	0.0050	1	08/08/2017 15:20
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/08/2017 15:20
1,1-Dichloroethene	ND	0.0050	1	08/08/2017 15:20
cis-1,2-Dichloroethene	ND	0.0050	1	08/08/2017 15:20
trans-1,2-Dichloroethene	ND	0.0050	1	08/08/2017 15:20
1,2-Dichloropropane	ND	0.0050	1	08/08/2017 15:20
1,3-Dichloropropane	ND	0.0050	1	08/08/2017 15:20
2,2-Dichloropropane	ND	0.0050	1	08/08/2017 15:20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/3/17	**Analytical Method:**	SW8260B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8-8.5	1708218-002A	Soil	08/03/2017 13:10	GC28	143128

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/08/2017 15:20
cis-1,3-Dichloropropene	ND	0.0050	1	08/08/2017 15:20
trans-1,3-Dichloropropene	ND	0.0050	1	08/08/2017 15:20
Diisopropyl ether (DIPE)	ND	0.0050	1	08/08/2017 15:20
Ethylbenzene	ND	0.0050	1	08/08/2017 15:20
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/08/2017 15:20
Freon 113	ND	0.0050	1	08/08/2017 15:20
Hexachlorobutadiene	ND	0.0050	1	08/08/2017 15:20
Hexachloroethane	ND	0.0050	1	08/08/2017 15:20
2-Hexanone	ND	0.0050	1	08/08/2017 15:20
Isopropylbenzene	ND	0.0050	1	08/08/2017 15:20
4-Isopropyl toluene	ND	0.0050	1	08/08/2017 15:20
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/08/2017 15:20
Methylene chloride	ND	0.0050	1	08/08/2017 15:20
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/08/2017 15:20
Naphthalene	ND	0.0050	1	08/08/2017 15:20
n-Propyl benzene	ND	0.0050	1	08/08/2017 15:20
Styrene	ND	0.0050	1	08/08/2017 15:20
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/08/2017 15:20
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/08/2017 15:20
Tetrachloroethene	ND	0.0050	1	08/08/2017 15:20
Toluene	ND	0.0050	1	08/08/2017 15:20
1,2,3-Trichlorobenzene	ND	0.0050	1	08/08/2017 15:20
1,2,4-Trichlorobenzene	ND	0.0050	1	08/08/2017 15:20
1,1,1-Trichloroethane	ND	0.0050	1	08/08/2017 15:20
1,1,2-Trichloroethane	ND	0.0050	1	08/08/2017 15:20
Trichloroethene	ND	0.0050	1	08/08/2017 15:20
Trichlorofluoromethane	ND	0.0050	1	08/08/2017 15:20
1,2,3-Trichloropropane	ND	0.0050	1	08/08/2017 15:20
1,2,4-Trimethylbenzene	ND	0.0050	1	08/08/2017 15:20
1,3,5-Trimethylbenzene	ND	0.0050	1	08/08/2017 15:20
Vinyl Chloride	ND	0.0050	1	08/08/2017 15:20
Xylenes, Total	ND	0.0050	1	08/08/2017 15:20

(Cont.)

CDPH ELAP 1644 • NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/3/17	**Analytical Method:**	SW8260B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8-8.5	**1708218-002A**	**Soil**	**08/03/2017 13:10**	**GC28**	**143128**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	120	70-130		08/08/2017 15:20
Toluene-d8	120	70-130		08/08/2017 15:20
4-BFB	104	70-130		08/08/2017 15:20
Benzene-d6	87	60-140		08/08/2017 15:20
Ethylbenzene-d10	95	60-140		08/08/2017 15:20
1,2-DCB-d4	97	60-140		08/08/2017 15:20

Analyst(s): KF

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/8/17	**Analytical Method:**	SW8260B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8	1708218-001B	Water	08/03/2017 13:20	GC38	143390

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/08/2017 22:32
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/08/2017 22:32
Benzene	ND	0.50	1	08/08/2017 22:32
Bromobenzene	ND	0.50	1	08/08/2017 22:32
Bromochloromethane	ND	0.50	1	08/08/2017 22:32
Bromodichloromethane	ND	0.50	1	08/08/2017 22:32
Bromoform	ND	0.50	1	08/08/2017 22:32
Bromomethane	ND	0.50	1	08/08/2017 22:32
2-Butanone (MEK)	ND	2.0	1	08/08/2017 22:32
t-Butyl alcohol (TBA)	ND	2.0	1	08/08/2017 22:32
n-Butyl benzene	ND	0.50	1	08/08/2017 22:32
sec-Butyl benzene	ND	0.50	1	08/08/2017 22:32
tert-Butyl benzene	ND	0.50	1	08/08/2017 22:32
Carbon Disulfide	ND	0.50	1	08/08/2017 22:32
Carbon Tetrachloride	ND	0.50	1	08/08/2017 22:32
Chlorobenzene	ND	0.50	1	08/08/2017 22:32
Chloroethane	ND	0.50	1	08/08/2017 22:32
Chloroform	ND	0.50	1	08/08/2017 22:32
Chloromethane	ND	0.50	1	08/08/2017 22:32
2-Chlorotoluene	ND	0.50	1	08/08/2017 22:32
4-Chlorotoluene	ND	0.50	1	08/08/2017 22:32
Dibromochloromethane	ND	0.50	1	08/08/2017 22:32
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/08/2017 22:32
1,2-Dibromoethane (EDB)	ND	0.50	1	08/08/2017 22:32
Dibromomethane	ND	0.50	1	08/08/2017 22:32
1,2-Dichlorobenzene	ND	0.50	1	08/08/2017 22:32
1,3-Dichlorobenzene	ND	0.50	1	08/08/2017 22:32
1,4-Dichlorobenzene	ND	0.50	1	08/08/2017 22:32
Dichlorodifluoromethane	ND	0.50	1	08/08/2017 22:32
1,1-Dichloroethane	ND	0.50	1	08/08/2017 22:32
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/08/2017 22:32
1,1-Dichloroethene	ND	0.50	1	08/08/2017 22:32
cis-1,2-Dichloroethene	ND	0.50	1	08/08/2017 22:32
trans-1,2-Dichloroethene	ND	0.50	1	08/08/2017 22:32
1,2-Dichloropropane	ND	0.50	1	08/08/2017 22:32
1,3-Dichloropropane	ND	0.50	1	08/08/2017 22:32
2,2-Dichloropropane	ND	0.50	1	08/08/2017 22:32

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/8/17	**Analytical Method:**	SW8260B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8	**1708218-001B**	**Water**	**08/03/2017 13:20**	**GC38**	**143390**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/08/2017 22:32
cis-1,3-Dichloropropene	ND	0.50	1	08/08/2017 22:32
trans-1,3-Dichloropropene	ND	0.50	1	08/08/2017 22:32
Diisopropyl ether (DIPE)	ND	0.50	1	08/08/2017 22:32
Ethylbenzene	ND	0.50	1	08/08/2017 22:32
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/08/2017 22:32
Freon 113	ND	0.50	1	08/08/2017 22:32
Hexachlorobutadiene	ND	0.50	1	08/08/2017 22:32
Hexachloroethane	ND	0.50	1	08/08/2017 22:32
2-Hexanone	ND	0.50	1	08/08/2017 22:32
Isopropylbenzene	ND	0.50	1	08/08/2017 22:32
4-Isopropyl toluene	ND	0.50	1	08/08/2017 22:32
Methyl-t-butyl ether (MTBE)	**1.8**	0.50	1	08/08/2017 22:32
Methylene chloride	ND	0.50	1	08/08/2017 22:32
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/08/2017 22:32
Naphthalene	ND	0.50	1	08/08/2017 22:32
n-Propyl benzene	ND	0.50	1	08/08/2017 22:32
Styrene	ND	0.50	1	08/08/2017 22:32
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/08/2017 22:32
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/08/2017 22:32
Tetrachloroethene	ND	0.50	1	08/08/2017 22:32
Toluene	ND	0.50	1	08/08/2017 22:32
1,2,3-Trichlorobenzene	ND	0.50	1	08/08/2017 22:32
1,2,4-Trichlorobenzene	ND	0.50	1	08/08/2017 22:32
1,1,1-Trichloroethane	ND	0.50	1	08/08/2017 22:32
1,1,2-Trichloroethane	ND	0.50	1	08/08/2017 22:32
Trichloroethene	ND	0.50	1	08/08/2017 22:32
Trichlorofluoromethane	ND	0.50	1	08/08/2017 22:32
1,2,3-Trichloropropane	ND	0.50	1	08/08/2017 22:32
1,2,4-Trimethylbenzene	ND	0.50	1	08/08/2017 22:32
1,3,5-Trimethylbenzene	ND	0.50	1	08/08/2017 22:32
Vinyl Chloride	ND	0.50	1	08/08/2017 22:32
Xylenes, Total	ND	0.50	1	08/08/2017 22:32

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/8/17	**Analytical Method:**	SW8260B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8	**1708218-001B**	**Water**	**08/03/2017 13:20**	**GC38**	**143390**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	115	70-130		08/08/2017 22:32
Toluene-d8	103	70-130		08/08/2017 22:32
4-BFB	74	70-130		08/08/2017 22:32

Analyst(s): AK Analytical Comments: b1

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/3/17	**Analytical Method:**	SW8021B/8015Bm
Project:	372927; 401 Jackson St, Oakland, CA	**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
SB-8-8.5	**1708218-002A**	**Soil**	**08/03/2017 13:10**	**GC7**	**143145**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/05/2017 15:16
MTBE	---	0.050	1	08/05/2017 15:16
Benzene	---	0.0050	1	08/05/2017 15:16
Toluene	---	0.0050	1	08/05/2017 15:16
Ethylbenzene	---	0.0050	1	08/05/2017 15:16
Xylenes	---	0.015	1	08/05/2017 15:16

Surrogates	REC (%)	Limits	
2-Fluorotoluene	77	62-126	08/05/2017 15:16

Analyst(s): IA

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW5030B
Date Prepared:	8/8/17	**Analytical Method:**	SW8021B/8015Bm
Project:	372927; 401 Jackson St, Oakland, CA	**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
SB-8	**1708218-001A**	**Water**	**08/03/2017 13:20**	**GC3**	**143287**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	08/08/2017 00:49
MTBE	---	5.0	1	08/08/2017 00:49
Benzene	---	0.50	1	08/08/2017 00:49
Toluene	---	0.50	1	08/08/2017 00:49
Ethylbenzene	---	0.50	1	08/08/2017 00:49
Xylenes	---	1.5	1	08/08/2017 00:49

Surrogates	REC (%)	Limits	
aaa-TFT	105	89-115	08/08/2017 00:49

Analyst(s): IA Analytical Comments: b1

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW3550B
Date Prepared:	8/3/17	**Analytical Method:**	SW8015B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8-8.5	**1708218-002A**	**Soil**	**08/03/2017 13:10**	**GC6A**	**143140**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/05/2017 17:52
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/05/2017 17:52

Surrogates	REC (%)	Limits	
C9	94	78-109	08/05/2017 17:52

Analyst(s): TK

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Received:	8/3/17 16:10	**Extraction Method:**	SW3510C
Date Prepared:	8/3/17	**Analytical Method:**	SW8015B
Project:	372927; 401 Jackson St, Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8	**1708218-001A**	**Water**	**08/03/2017 13:20**	**GC6A**	**143143**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	08/05/2017 12:00
TPH-Motor Oil (C18-C36)	ND	250	1	08/05/2017 12:00

Surrogates	REC (%)	Limits	
C9	95	66-138	08/05/2017 12:00

Analyst(s): TK Analytical Comments: b1

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143128
Date Analyzed:	8/3/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143128 1708198-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	1.13	0.10	1	-	113	72-156
tert-Amyl methyl ether (TAME)	ND	0.0462	0.0050	0.050	-	92	53-116
Benzene	ND	0.0513	0.0050	0.050	-	103	63-137
Bromobenzene	ND	0.0512	0.0050	0.050	-	102	68-126
Bromochloromethane	ND	0.0494	0.0050	0.050	-	99	72-126
Bromodichloromethane	ND	0.0501	0.0050	0.050	-	100	61-127
Bromoform	ND	0.0364	0.0050	0.050	-	73	49-100
Bromomethane	ND	0.0477	0.0050	0.050	-	95	40-161
2-Butanone (MEK)	ND	0.208	0.020	0.20	-	104	43-157
t-Butyl alcohol (TBA)	ND	0.211	0.050	0.20	-	106	41-135
n-Butyl benzene	ND	0.0775	0.0050	0.050	-	155	102-160
sec-Butyl benzene	ND	0.0784	0.0050	0.050	-	157	74-168
tert-Butyl benzene	ND	0.0707	0.0050	0.050	-	141	88-157
Carbon Disulfide	ND	0.0564	0.0050	0.050	-	113	42-151
Carbon Tetrachloride	ND	0.0562	0.0050	0.050	-	112	49-149
Chlorobenzene	ND	0.0498	0.0050	0.050	-	100	77-121
Chloroethane	ND	0.0458	0.0050	0.050	-	92	41-134
Chloroform	ND	0.0523	0.0050	0.050	-	105	69-133
Chloromethane	ND	0.0439	0.0050	0.050	-	88	31-119
2-Chlorotoluene	ND	0.0610	0.0050	0.050	-	122	79-139
4-Chlorotoluene	ND	0.0571	0.0050	0.050	-	114	77-138
Dibromochloromethane	ND	0.0442	0.0050	0.050	-	88	58-121
1,2-Dibromo-3-chloropropane	ND	0.0196	0.0040	0.020	-	98	39-115
1,2-Dibromoethane (EDB)	ND	0.0513	0.0040	0.050	-	103	67-119
Dibromomethane	ND	0.0472	0.0050	0.050	-	94	66-117
1,2-Dichlorobenzene	ND	0.0423	0.0050	0.050	-	85	59-109
1,3-Dichlorobenzene	ND	0.0538	0.0050	0.050	-	108	75-130
1,4-Dichlorobenzene	ND	0.0501	0.0050	0.050	-	100	71-122
Dichlorodifluoromethane	ND	0.0243	0.0050	0.050	-	49	43-68
1,1-Dichloroethane	ND	0.0533	0.0050	0.050	-	107	62-139
1,2-Dichloroethane (1,2-DCA)	ND	0.0507	0.0040	0.050	-	101	58-135
1,1-Dichloroethene	ND	0.0507	0.0050	0.050	-	101	42-145
cis-1,2-Dichloroethene	ND	0.0514	0.0050	0.050	-	103	67-129
trans-1,2-Dichloroethene	ND	0.0515	0.0050	0.050	-	103	54-139
1,2-Dichloropropane	ND	0.0505	0.0050	0.050	-	101	68-125
1,3-Dichloropropane	ND	0.0526	0.0050	0.050	-	105	65-125
2,2-Dichloropropane	ND	0.0579	0.0050	0.050	-	116	45-151

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143128
Date Analyzed:	8/3/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143128 1708198-001AMS/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	0.0538	0.0050	0.050	-	107	64-138
cis-1,3-Dichloropropene	ND	0.0587	0.0050	0.050	-	117	62-134
trans-1,3-Dichloropropene	ND	0.0514	0.0050	0.050	-	103	59-128
Diisopropyl ether (DIPE)	ND	0.0513	0.0050	0.050	-	103	52-129
Ethylbenzene	ND	0.0585	0.0050	0.050	-	117	74-142
Ethyl tert-butyl ether (ETBE)	ND	0.0511	0.0050	0.050	-	102	53-125
Freon 113	ND	0.0451	0.0050	0.050	-	90	51-126
Hexachlorobutadiene	ND	0.0711	0.0050	0.050	-	142	70-158
Hexachloroethane	ND	0.0583	0.0050	0.050	-	117	80-160
2-Hexanone	ND	0.0474	0.0050	0.050	-	95	41-116
Isopropylbenzene	ND	0.0608	0.0050	0.050	-	122	77-146
4-Isopropyl toluene	ND	0.0697	0.0050	0.050	-	139	96-159
Methyl-t-butyl ether (MTBE)	ND	0.0491	0.0050	0.050	-	98	58-122
Methylene chloride	ND	0.0544	0.0050	0.050	-	109	58-135
4-Methyl-2-pentanone (MIBK)	ND	0.0478	0.0050	0.050	-	96	40-112
Naphthalene	ND	0.0247	0.0050	0.050	-	49	23-73
n-Propyl benzene	ND	0.0717	0.0050	0.050	-	143	82-160
Styrene	ND	0.0527	0.0050	0.050	-	105	68-124
1,1,1,2-Tetrachloroethane	ND	0.0551	0.0050	0.050	-	110	70-128
1,1,2,2-Tetrachloroethane	ND	0.0490	0.0050	0.050	-	98	57-111
Tetrachloroethene	ND	0.0586	0.0050	0.050	-	117	73-145
Toluene	ND	0.0562	0.0050	0.050	-	112	76-130
1,2,3-Trichlorobenzene	ND	0.0313	0.0050	0.050	-	63	43-72
1,2,4-Trichlorobenzene	ND	0.0398	0.0050	0.050	-	80	47-95
1,1,1-Trichloroethane	ND	0.0552	0.0050	0.050	-	110	60-141
1,1,2-Trichloroethane	ND	0.0508	0.0050	0.050	-	102	62-118
Trichloroethene	ND	0.0508	0.0050	0.050	-	102	72-132
Trichlorofluoromethane	ND	0.0484	0.0050	0.050	-	97	43-135
1,2,3-Trichloropropane	ND	0.0531	0.0050	0.050	-	106	57-122
1,2,4-Trimethylbenzene	ND	0.0639	0.0050	0.050	-	128	81-152
1,3,5-Trimethylbenzene	ND	0.0676	0.0050	0.050	-	135	78-160
Vinyl Chloride	ND	0.0434	0.0050	0.050	-	87	42-131
Xylenes, Total	ND	0.170	0.0050	0.15	-	114	70-130

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143128
Date Analyzed:	8/3/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143128 1708198-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.1243	0.126		0.12	99	101	70-130
Toluene-d8	0.1451	0.140		0.12	116	112	70-130
4-BFB	0.01339	0.0135		0.012	107	108	70-130
Benzene-d6	0.08986	0.0940		0.10	90	94	60-140
Ethylbenzene-d10	0.1166	0.122		0.10	117	122	60-140
1,2-DCB-d4	0.0838	0.0871		0.10	84	87	60-140

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143128
Date Analyzed:	8/3/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143128 1708198-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.893	0.910	1	ND	89	91	72-156	1.88	20
tert-Amyl methyl ether (TAME)	0.0391	0.0405	0.050	ND	78	81	53-116	3.49	20
Benzene	0.0434	0.0440	0.050	ND	87	88	63-137	1.38	20
Bromobenzene	0.0425	0.0449	0.050	ND	85	90	68-126	5.52	20
Bromochloromethane	0.0409	0.0411	0.050	ND	82	82	72-126	0	20
Bromodichloromethane	0.0434	0.0441	0.050	ND	87	88	61-127	1.60	20
Bromoform	0.0319	0.0322	0.050	ND	64	64	49-100	0	20
Bromomethane	0.0383	0.0365	0.050	ND	77	73	40-161	4.90	20
2-Butanone (MEK)	0.169	0.173	0.20	ND	84	86	43-157	2.50	20
t-Butyl alcohol (TBA)	0.172	0.178	0.20	ND	86	89	41-135	3.41	20
n-Butyl benzene	0.0603	0.0613	0.050	ND	121	123	102-160	1.68	20
sec-Butyl benzene	0.0614	0.0623	0.050	ND	123	125	74-168	1.53	20
tert-Butyl benzene	0.0583	0.0600	0.050	ND	117	120	88-157	2.87	20
Carbon Disulfide	0.0454	0.0460	0.050	ND	91	92	42-151	1.30	20
Carbon Tetrachloride	0.0470	0.0490	0.050	ND	94	98	49-149	4.37	20
Chlorobenzene	0.0427	0.0434	0.050	ND	85	87	77-121	1.62	20
Chloroethane	0.0370	0.0353	0.050	ND	74	70	41-134	4.92	20
Chloroform	0.0444	0.0459	0.050	ND	89	92	69-133	3.22	20
Chloromethane	0.0342	0.0321	0.050	ND	68	64	31-119	6.23	20
2-Chlorotoluene	0.0502	0.0522	0.050	ND	100	104	79-139	3.98	20
4-Chlorotoluene	0.0470	0.0486	0.050	ND	94	97	77-138	3.50	20
Dibromochloromethane	0.0382	0.0390	0.050	ND	76	78	58-121	1.93	20
1,2-Dibromo-3-chloropropane	0.0190	0.0192	0.020	ND	95	96	39-115	1.04	20
1,2-Dibromoethane (EDB)	0.0432	0.0436	0.050	ND	86	87	67-119	0.854	20
Dibromomethane	0.0397	0.0400	0.050	ND	79	80	66-117	0.741	20
1,2-Dichlorobenzene	0.0369	0.0371	0.050	ND	74	74	59-109	0	20
1,3-Dichlorobenzene	0.0450	0.0459	0.050	ND	90	92	75-130	2.01	20
1,4-Dichlorobenzene	0.0419	0.0428	0.050	ND	84	85	71-122	1.90	20
Dichlorodifluoromethane	0.0172	0.0163	0.050	ND	34,F1	33,F1	43-68	5.31	20
1,1-Dichloroethane	0.0448	0.0460	0.050	ND	90	92	62-139	2.55	20
1,2-Dichloroethane (1,2-DCA)	0.0418	0.0435	0.050	ND	84	87	58-135	4.10	20
1,1-Dichloroethene	0.0417	0.0420	0.050	ND	83	84	42-145	0.629	20
cis-1,2-Dichloroethene	0.0428	0.0440	0.050	ND	86	88	67-129	2.75	20
trans-1,2-Dichloroethene	0.0424	0.0429	0.050	ND	85	86	54-139	1.32	20
1,2-Dichloropropane	0.0430	0.0437	0.050	ND	86	87	68-125	1.51	20
1,3-Dichloropropane	0.0430	0.0449	0.050	ND	86	90	65-125	4.30	20
2,2-Dichloropropane	0.0485	0.0505	0.050	ND	97	101	45-151	4.18	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143128
Date Analyzed:	8/3/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143128 1708198-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0465	0.0458	0.050	ND	93	92	64-138	1.52	20
cis-1,3-Dichloropropene	0.0482	0.0509	0.050	ND	96	102	62-134	5.39	20
trans-1,3-Dichloropropene	0.0427	0.0449	0.050	ND	85	90	59-128	4.97	20
Diisopropyl ether (DIPE)	0.0433	0.0443	0.050	ND	87	89	52-129	2.29	20
Ethylbenzene	0.0485	0.0496	0.050	ND	97	99	74-142	2.22	20
Ethyl tert-butyl ether (ETBE)	0.0432	0.0444	0.050	ND	86	89	53-125	2.86	20
Freon 113	0.0353	0.0358	0.050	ND	70	72	51-126	1.64	20
Hexachlorobutadiene	0.0586	0.0601	0.050	ND	117	120	70-158	2.53	20
Hexachloroethane	0.0552	0.0580	0.050	ND	101	107	80-160	4.96	20
2-Hexanone	0.0389	0.0402	0.050	ND	78	80	41-116	3.30	20
Isopropylbenzene	0.0502	0.0510	0.050	ND	100	102	77-146	1.66	20
4-Isopropyl toluene	0.0575	0.0582	0.050	ND	115	116	96-159	1.29	20
Methyl-t-butyl ether (MTBE)	0.0407	0.0421	0.050	ND	81	84	58-122	3.56	20
Methylene chloride	0.0454	0.0460	0.050	ND	91	92	58-135	1.29	20
4-Methyl-2-pentanone (MIBK)	0.0389	0.0408	0.050	ND	78	82	40-112	4.74	20
Naphthalene	0.0274	0.0285	0.050	ND	46	48	23-73	3.77	20
n-Propyl benzene	0.0571	0.0594	0.050	ND	114	119	82-160	4.04	20
Styrene	0.0430	0.0441	0.050	ND	86	88	68-124	2.64	20
1,1,1,2-Tetrachloroethane	0.0473	0.0482	0.050	ND	95	96	70-128	1.76	20
1,1,2,2-Tetrachloroethane	0.0431	0.0450	0.050	ND	86	90	57-111	4.27	20
Tetrachloroethene	0.0486	0.0488	0.050	ND	97	98	73-145	0.406	20
Toluene	0.0475	0.0487	0.050	ND	95	97	76-130	2.58	20
1,2,3-Trichlorobenzene	0.0274	0.0291	0.050	ND	55	58	43-72	5.94	20
1,2,4-Trichlorobenzene	0.0356	0.0355	0.050	ND	68	68	47-95	0	20
1,1,1-Trichloroethane	0.0462	0.0479	0.050	ND	92	96	60-141	3.66	20
1,1,2-Trichloroethane	0.0420	0.0435	0.050	ND	84	87	62-118	3.64	20
Trichloroethene	0.0419	0.0427	0.050	ND	84	85	72-132	1.83	20
Trichlorofluoromethane	0.0388	0.0399	0.050	ND	78	80	43-135	2.60	20
1,2,3-Trichloropropane	0.0444	0.0479	0.050	ND	89	96	57-122	7.68	20
1,2,4-Trimethylbenzene	0.0522	0.0536	0.050	ND	104	107	81-152	2.68	20
1,3,5-Trimethylbenzene	0.0554	0.0573	0.050	ND	111	115	78-160	3.44	20
Vinyl Chloride	0.0343	0.0325	0.050	ND	69	65	42-131	5.14	20
Xylenes, Total	0.138	0.142	0.15	ND	92	94	70-130	2.20	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143128
Date Analyzed:	8/3/17 - 8/5/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143128 1708198-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.125	0.126	0.12		100	101	70-130	0.917	20
Toluene-d8	0.139	0.141	0.12		111	113	70-130	1.49	20
4-BFB	0.0136	0.0147	0.012		109	117	70-130	7.67	20
Benzene-d6	0.0805	0.0812	0.10		80	81	60-140	0.893	20
Ethylbenzene-d10	0.100	0.101	0.10		100	101	60-140	0.813	20
1,2-DCB-d4	0.0771	0.0773	0.10		77	77	60-140	0	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/8/17	**BatchID:**	143390
Date Analyzed:	8/8/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143390 1708202-010BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	162	10	200	-	81	46-155
tert-Amyl methyl ether (TAME)	ND	6.82	0.50	10	-	68	54-140
Benzene	ND	8.40	0.50	10	-	84	47-158
Bromobenzene	ND	7.70	0.50	10	-	77	50-155
Bromochloromethane	ND	8.28	0.50	10	-	83	48-160
Bromodichloromethane	ND	7.52	0.50	10	-	75	60-156
Bromoform	ND	7.18	0.50	10	-	72	43-149
Bromomethane	ND	9.51	0.50	10	-	95	61-159
2-Butanone (MEK)	ND	30.8	2.0	40	-	77	61-124
t-Butyl alcohol (TBA)	ND	24.0	2.0	40	-	60	42-140
n-Butyl benzene	ND	9.27	0.50	10	-	93	74-138
sec-Butyl benzene	ND	9.52	0.50	10	-	95	72-142
tert-Butyl benzene	ND	8.54	0.50	10	-	85	74-140
Carbon Disulfide	ND	7.52	0.50	10	-	75	64-127
Carbon Tetrachloride	ND	7.90	0.50	10	-	79	61-158
Chlorobenzene	ND	8.20	0.50	10	-	82	43-157
Chloroethane	ND	8.61	0.50	10	-	86	50-127
Chloroform	ND	8.04	0.50	10	-	80	56-154
Chloromethane	ND	7.80	0.50	10	-	78	41-132
2-Chlorotoluene	ND	8.40	0.50	10	-	84	50-155
4-Chlorotoluene	ND	8.06	0.50	10	-	81	53-153
Dibromochloromethane	ND	6.78	0.50	10	-	68	49-156
1,2-Dibromo-3-chloropropane	ND	2.47	0.20	4	-	62	46-149
1,2-Dibromoethane (EDB)	ND	7.40	0.50	10	-	74	44-155
Dibromomethane	ND	7.64	0.50	10	-	76	50-157
1,2-Dichlorobenzene	ND	8.11	0.50	10	-	81	48-156
1,3-Dichlorobenzene	ND	8.81	0.50	10	-	88	49-159
1,4-Dichlorobenzene	ND	8.43	0.50	10	-	84	51-151
Dichlorodifluoromethane	ND	2.00	0.50	10	-	20, F2	61-117
1,1-Dichloroethane	ND	8.77	0.50	10	-	88	53-153
1,2-Dichloroethane (1,2-DCA)	ND	7.98	0.50	10	-	80	66-125
1,1-Dichloroethene	ND	7.93	0.50	10	-	79	47-149
cis-1,2-Dichloroethene	ND	8.36	0.50	10	-	84	54-155
trans-1,2-Dichloroethene	ND	8.20	0.50	10	-	82	46-151
1,2-Dichloropropane	ND	8.36	0.50	10	-	84	54-153
1,3-Dichloropropane	ND	7.62	0.50	10	-	76	49-150
2,2-Dichloropropane	ND	8.31	0.50	10	-	83	74-147

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/8/17	**BatchID:**	143390
Date Analyzed:	8/8/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143390 1708202-010BMS/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	8.18	0.50	10	-	82	54-150
cis-1,3-Dichloropropene	ND	7.19	0.50	10	-	72	55-159
trans-1,3-Dichloropropene	ND	7.44	0.50	10	-	74	74-131
Diisopropyl ether (DIPE)	ND	8.24	0.50	10	-	82	57-136
Ethylbenzene	ND	8.42	0.50	10	-	84	60-152
Ethyl tert-butyl ether (ETBE)	ND	7.84	0.50	10	-	78	55-137
Freon 113	ND	8.00	0.50	10	-	80	47-138
Hexachlorobutadiene	ND	7.50	0.50	10	-	75	66-160
Hexachloroethane	ND	7.31	0.50	10	-	73, F2	75-130
2-Hexanone	ND	6.77	0.50	10	-	68, F2	70-115
Isopropylbenzene	ND	8.37	0.50	10	-	84	59-156
4-Isopropyl toluene	ND	9.00	0.50	10	-	90	75-138
Methyl-t-butyl ether (MTBE)	ND	7.20	0.50	10	-	72	53-139
Methylene chloride	ND	7.68	0.50	10	-	77	66-127
4-Methyl-2-pentanone (MIBK)	ND	6.17	0.50	10	-	62	42-153
Naphthalene	ND	7.25	0.50	10	-	73	66-127
n-Propyl benzene	ND	8.91	0.50	10	-	89	54-155
Styrene	ND	8.26	0.50	10	-	83	51-152
1,1,1,2-Tetrachloroethane	ND	7.71	0.50	10	-	77	58-159
1,1,2,2-Tetrachloroethane	ND	7.16	0.50	10	-	72	51-150
Tetrachloroethene	ND	7.92	0.50	10	-	79	55-145
Toluene	ND	7.88	0.50	10	-	79	52-137
1,2,3-Trichlorobenzene	ND	7.59	0.50	10	-	76	70-136
1,2,4-Trichlorobenzene	ND	7.74	0.50	10	-	77	74-137
1,1,1-Trichloroethane	ND	8.03	0.50	10	-	80	57-156
1,1,2-Trichloroethane	ND	7.58	0.50	10	-	76	51-150
Trichloroethene	ND	7.90	0.50	10	-	79	43-157
Trichlorofluoromethane	ND	7.84	0.50	10	-	78	50-147
1,2,3-Trichloropropane	ND	7.69	0.50	10	-	77	41-152
1,2,4-Trimethylbenzene	ND	8.94	0.50	10	-	89	57-157
1,3,5-Trimethylbenzene	ND	8.66	0.50	10	-	87	56-159
Vinyl Chloride	ND	8.74	0.50	10	-	87	42-137
Xylenes, Total	ND	26.0	0.50	30	-	87	70-130

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/8/17	**BatchID:**	143390
Date Analyzed:	8/8/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143390 1708202-010BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	28.42	28.6		25	114	115	70-130
Toluene-d8	25.58	26.0		25	102	104	70-130
4-BFB	1.882	2.04		2.5	75	82	70-130

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/8/17	**BatchID:**	143390
Date Analyzed:	8/8/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143390 1708202-010BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	259	260	200	ND	128	128	66-158	0	20
tert-Amyl methyl ether (TAME)	9.29	9.92	10	ND	93	99	69-139	6.56	20
Benzene	10.0	10.8	10	ND	100	108	69-141	6.96	20
Bromobenzene	9.17	10.1	10	ND	92	101	70-127	9.39	20
Bromochloromethane	10.5	11.2	10	ND	105	112	72-142	6.38	20
Bromodichloromethane	9.44	10.3	10	ND	94	103	75-141	8.42	20
Bromoform	10.5	11.1	10	ND	105	111	72-126	5.89	20
Bromomethane	10.4	11.1	10	ND	104	111	50-160	6.12	20
2-Butanone (MEK)	49.3	51.2	40	ND	120	125	69-154	3.80	20
t-Butyl alcohol (TBA)	41.4	42.2	40	ND	103	105	41-152	1.92	20
n-Butyl benzene	11.0	11.8	10	ND	110	118	70-134	7.04	20
sec-Butyl benzene	10.9	11.6	10	ND	109	116	73-131	6.05	20
tert-Butyl benzene	9.86	10.7	10	ND	99	107	71-125	8.30	20
Carbon Disulfide	8.94	9.65	10	ND	89	97	63-158	7.64	20
Carbon Tetrachloride	9.22	10.1	10	ND	92	101	72-143	9.12	20
Chlorobenzene	9.76	10.4	10	ND	98	104	77-120	6.40	20
Chloroethane	10.6	10.7	10	ND	106	107	54-131	0.733	20
Chloroform	9.71	10.4	10	ND	97	104	75-139	7.21	20
Chloromethane	8.54	8.60	10	ND	85	86	40-130	0.648	20
2-Chlorotoluene	9.68	10.6	10	ND	97	105	70-122	8.60	20
4-Chlorotoluene	9.38	10.1	10	ND	94	101	71-123	7.59	20
Dibromochloromethane	9.09	9.83	10	ND	91	98	78-132	7.86	20
1,2-Dibromo-3-chloropropane	3.88	4.01	4	ND	97	100	59-143	3.10	20
1,2-Dibromoethane (EDB)	10.0	10.6	10	ND	100	106	76-135	5.29	20
Dibromomethane	10.3	10.9	10	ND	103	109	78-135	5.69	20
1,2-Dichlorobenzene	10.0	10.6	10	ND	100	105	68-133	4.87	20
1,3-Dichlorobenzene	10.3	11.0	10	ND	103	110	78-122	6.27	20
1,4-Dichlorobenzene	10.2	10.7	10	ND	102	107	80-117	5.13	20
Dichlorodifluoromethane	6.86	6.66	10	ND	69	67	38-125	2.97	20
1,1-Dichloroethane	10.4	11.2	10	ND	104	112	65-152	7.50	20
1,2-Dichloroethane (1,2-DCA)	10.3	11.0	10	ND	103	110	73-139	5.95	20
1,1-Dichloroethene	9.36	10.2	10	ND	94	102	59-140	8.36	20
cis-1,2-Dichloroethene	10.2	10.8	10	ND	101	108	50-154	6.25	20
trans-1,2-Dichloroethene	9.77	10.6	10	ND	98	106	69-136	8.01	20
1,2-Dichloropropane	10.2	11.0	10	ND	103	110	78-132	6.94	20
1,3-Dichloropropane	9.89	10.5	10	ND	99	105	77-131	6.08	20
2,2-Dichloropropane	9.66	10.3	10	ND	97	103	61-160	6.23	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/8/17	**BatchID:**	143390
Date Analyzed:	8/8/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143390 1708202-010BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	9.63	10.5	10	ND	96	105	70-137	8.53	20
cis-1,3-Dichloropropene	8.81	9.61	10	ND	88	96	78-135	8.65	20
trans-1,3-Dichloropropene	9.43	10.3	10	ND	94	103	78-131	8.53	20
Diisopropyl ether (DIPE)	10.4	11.0	10	ND	104	110	72-140	6.06	20
Ethylbenzene	9.88	10.5	10	ND	99	105	73-128	6.38	20
Ethyl tert-butyl ether (ETBE)	10.3	11.0	10	ND	103	110	71-140	6.21	20
Freon 113	9.41	10.2	10	ND	94	102	60-136	8.17	20
Hexachlorobutadiene	8.97	9.29	10	ND	90	93	56-132	3.52	20
Hexachloroethane	8.59	9.62	10	ND	86	96	61-129	11.3	20
2-Hexanone	11.0	11.7	10	ND	110	117	57-149	6.20	20
Isopropylbenzene	9.47	10.3	10	ND	95	103	69-130	8.83	20
4-Isopropyl toluene	10.4	11.2	10	ND	104	112	75-124	6.90	20
Methyl-t-butyl ether (MTBE)	9.95	10.6	10	ND	100	106	73-139	6.05	20
Methylene chloride	9.73	10.2	10	ND	97	102	74-128	4.35	20
4-Methyl-2-pentanone (MIBK)	9.65	10.4	10	ND	97	104	61-145	7.39	20
Naphthalene	10.4	10.7	10	ND	104	107	54-148	2.70	20
n-Propyl benzene	10.1	11.1	10	ND	101	111	71-121	8.64	20
Styrene	10.2	10.7	10	ND	102	107	56-140	4.88	20
1,1,1,2-Tetrachloroethane	9.41	10.1	10	ND	94	101	74-127	7.44	20
1,1,2,2-Tetrachloroethane	10.0	10.8	10	ND	100	108	63-142	7.66	20
Tetrachloroethene	9.16	9.93	10	0.7053	85	92	71-125	8.03	20
Toluene	9.19	9.98	10	ND	92	100	71-128	8.31	20
1,2,3-Trichlorobenzene	10.1	10.3	10	ND	101	103	59-135	2.43	20
1,2,4-Trichlorobenzene	10.0	10.4	10	ND	100	104	60-132	4.05	20
1,1,1-Trichloroethane	9.47	10.3	10	ND	95	103	75-138	8.29	20
1,1,2-Trichloroethane	9.97	10.6	10	ND	100	106	78-129	6.25	20
Trichloroethene	9.35	10.2	10	ND	92	101	64-132	8.36	20
Trichlorofluoromethane	9.25	9.95	10	ND	92	100	53-159	7.36	20
1,2,3-Trichloropropane	10.9	11.5	10	ND	109	115	68-130	6.06	20
1,2,4-Trimethylbenzene	10.5	11.2	10	ND	105	112	76-124	6.31	20
1,3,5-Trimethylbenzene	10.1	10.8	10	ND	101	108	77-124	6.85	20
Vinyl Chloride	9.80	9.84	10	ND	98	98	43-142	0	20
Xylenes, Total	31.1	32.7	30	ND	104	109	70-130	5.13	20

(Cont.)

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/8/17	**BatchID:**	143390
Date Analyzed:	8/8/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143390 1708202-010BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	28.4	29.1	25		114	116	73-131	2.25	20
Toluene-d8	25.1	25.6	25		100	102	72-117	1.98	20
4-BFB	1.95	2.04	2.5		78	82	74-116	4.63	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143145
Date Analyzed:	8/3/17 - 8/4/17	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143145 1708217-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Xylenes	ND	0.015	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.08335		0.10	83	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.601		0.60	100		82-118		-
MTBE	0.0943		0.10	94		61-119		-
Benzene	0.0999		0.10	100		77-128		-
Toluene	0.107		0.10	107		74-132		-
Ethylbenzene	0.104		0.10	104		84-127		-
Xylenes	0.309		0.30	103		86-129		-
Surrogate Recovery								
2-Fluorotoluene	0.0846		0.10	85		75-134		-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.562	0.568	0.60	ND	94	95	58-129	1.10	20
MTBE	0.0890	0.0878	0.10	ND	89	88	47-118	1.43	20
Benzene	0.0877	0.0938	0.10	ND	88	94	55-129	6.81	20
Toluene	0.100	0.100	0.10	ND	98	99	56-130	0.441	20
Ethylbenzene	0.100	0.0977	0.10	ND	100	98	63-129	2.32	20
Xylenes	0.297	0.290	0.30	ND	99	97	64-131	2.40	20
Surrogate Recovery									
2-Fluorotoluene	0.0805	0.0806	0.10		80	81	62-126	0.114	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/7/17	**BatchID:**	143287
Date Analyzed:	8/7/17	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143287 1708330-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	1.5	-	-	-
Surrogate Recovery					
aaa-TFT	9.969		10	100	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	60.2		60	100		78-116		-
MTBE	8.83		10	88		72-122		-
Benzene	9.18		10	92		81-123		-
Toluene	9.69		10	97		83-129		-
Ethylbenzene	10.2		10	102		88-126		-
Xylenes	31.8		30	106		87-131		-
Surrogate Recovery								
aaa-TFT	9.78		10	98		89-116		-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.5	58.9	60	ND	102	98	63-133	4.33	20
MTBE	8.70	9.23	10	ND	87	92	69-122	5.95	20
Benzene	8.87	9.20	10	ND	89	92	84-125	3.60	20
Toluene	9.53	9.69	10	ND	95	97	87-131	1.68	20
Ethylbenzene	9.91	10.2	10	ND	98	101	92-126	2.58	20
Xylenes	30.9	31.6	30	ND	102	105	88-132	2.36	20
Surrogate Recovery									
aaa-TFT	10.1	9.74	10		101	97	90-117	3.48	20

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143140
Date Analyzed:	8/4/17	**Extraction Method:**	SW3550B
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS-143140

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	42.0	1.0	40	-	105	79-133
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C26	25.63	25.7		25	103	103	81-103

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

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1708218
Date Prepared:	8/3/17	**BatchID:**	143143
Date Analyzed:	8/4/17	**Extraction Method:**	SW3510C
Instrument:	GC39A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	372927; 401 Jackson St, Oakland, CA	**Sample ID:**	MB/LCS/LCSD-143143

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C26	642.1		625	103	80-108

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1230	1230	1000	123	123	88-134	0	30
Surrogate Recovery								
C26	646	634	625	103	101	80-108	1.87	30

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1708218 **ClientCode: AEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
cc/3rd Party:
PO: 138748
ProjectNo: 372927; 401 Jackson St, Oakland, CA

Bill to:
Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: **08/03/2017**
Date Logged: **08/03/2017**

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
1708218-001	SB-8	Water	8/3/2017 13:20	☐		B		A		A						
1708218-002	SB-8-8.5	Soil	8/3/2017 13:10	☐	A		A		A							

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W
5	TPH(DMO)_S	6	TPH(DMO)_W	7		8	
9		10		11		12	

Prepared by: Kena Ponce

The following SampID: 002A contains testgroup Multi Range_S.; The following SampID: 001A contains testgroup Multi Range_W.

Comments:

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

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: AEI CONSULTANTS
Client Contact: Jeremy Smith
Contact's Email: jasmith@aeiconsultants.com

Project: 372927; 401 Jackson St.
Comments:

Work Order: 1708218
QC Level: LEVEL 2
Date Logged: 8/3/2017

☐ 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
1708218-001A	SB-8	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	3	VOA w/ HCl	☐	8/3/2017 13:20	5 days	2%+	☐	
1708218-001B	SB-8	Water	SW8260B (VOCs)	1	VOA w/ HCL	☐	8/3/2017 13:20	5 days	2%+	☐	
1708218-002A	SB-8-8.5	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm	1	Stainless Steel tube 2"x6"	☐	8/3/2017 13:10	5 days		☐	
			SW8260B (VOCs)			☐		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

1708218

MAI Work Order # ~~1708218~~ WP

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

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

Report To: Jeremy Smith | Bill To: AEI
Company: AEI Consultants
Email: jasmith@aeiconsultants.com
Alt Email: | Tele:
Project Name: | Project #:372927
Project Location: 401 Jackson Street, Oakland, CA | PO # 138748
Sampler Signature:

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Analysis Requested: TPH multi-Range 8015	Analysis Requested: VOCs 8260
SB-8	8-3-17	120	4	Water	HCL	X	X
SB-8-8.5	8-3-17	110	1	Soil	Ice	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. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
	8-3-17	1500		8-3-17	1500
	8-3-17	1610		8/3/17	1610

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 _____ °C Initials _____

Page ___ of ___

McCampbell Analytical, Inc.
"When Quality Counts"

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

Sample Receipt Checklist

Client Name:	**AEI Consultants**	Date and Time Received	**8/3/2017 16:10**
Project Name:	**372927; 401 Jackson St.**	Date Logged:	**8/3/2017**
		Received by:	Alexandra Iniguez
WorkOrder №:	**1708218** Matrix: Soil/Water	Logged by:	Kena Ponce
Carrier:	Bernie Cummins (MAI Courier)		

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Sample/Temp Blank temperature	Temp: 4.2°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)				

UCMR 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: