



SOIL ASSESSMENT OF DISPENSERS
REPORT

Park Gas & Food Service Station
1397 7th Street, Oakland, California

PREPARED FOR:

Mr. Chris Tougeron
Sr. Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Alameda, CA 94502

EIS PROJECT No. 1526-2

April 20, 2015

PREPARED BY:

Environmental Investigation Services, Inc.
15951 Los Gatos Boulevard, Suite #17, Los Gatos CA 95032
Phone: (408) 402-9800 Fax: (408) 402-9830



April 20, 2015

Mr. Chris Tougeron
Sr. Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Alameda, CA 94502

SUBJECT: Soil Assessment of Dispensers
Park Gas and Food Service Station
1397 7th Street, Oakland, California
EIS Project # 1526-2

Dear Mr. Tougeron:

Environmental Investigation Services, Inc. (EIS) has prepared this letter report to document the soil sampling in area beneath the four dispensers associated with the underground fuel tanks from Park and Food Gas, 1397 7th Street, Oakland, California. Soil assessment activities involved soil sampling, laboratory analysis, and preparation of a letter report of findings.

BACKGROUND

The subject site is located on the southwest corner of Mandela Parkway and 7th Street in Oakland, California. The existing site layout is presented in Figure 1. The subject site is currently occupied by a Park Gas and Food underground tank fueling station. The dispensers and fuel piping were being replaced and the Alameda County Department of Environmental Health (ACDEH) required a soil investigation for petroleum hydrocarbons, BTEX, MTBE, and lead associated with diesel and gasoline fuel beneath the former dispensers.

FIELD ACTIVITIES

Dispenser Upgrade

On April 9, 2015, Cal Phase Construction (Cal Phase) of San Jose, California, excavated fill gravel to expose the area beneath the dispensers in preparation for dispenser upgrade.

Soil Sampling

On April 9, 2014, under ACDEH supervision, Emlyn Stokes, Staff Geologist of EIS, Inc. advanced four soil borings using hand auger equipment under each dispenser location. The soil borings and sample designations were D-1 through D-4 (see Figure 2). Soil borings designated D-1 through D-4 were advanced below dispenser locations into native soil, between approximately three and five feet below ground surface (bgs). Soil samples were collected with hand auger equipment with clean stainless steel sleeves. The stainless steel sleeves were sealed with Teflon sheets and plastic caps, labeled, logged onto a chain

of custody document, placed into a chilled ice chest, and transported to the analytical laboratory.

LABORATORY ANALYSIS

Soil samples were delivered to McCampbell Analytical, Inc. a California-certified laboratory, for analysis.

Samples from below the dispensers were analyzed for the following: Total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015M and Total petroleum hydrocarbons as gasoline (TPH-g), BTEX and MTBE by EPA Method 8021, and total lead by EPA Method 6010.

The analytical reports and chain-of-custody documents for the soil samples are included in Attachment A of this report.

FINDINGS

Site Conditions

The native subsurface materials encountered during the investigation were silty clay.

Native soil encountered below the dispensers appeared to have petroleum hydrocarbon staining and odor. Soil samples were collected at a depth of three to five feet below ground surface.

Analytical Results

Analytical data from the soil samples are summarized in Table 1. The data is compared to applicable Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential and commercial land use where groundwater is a current or potential source of drinking water (RWQCB, December 2013). Laboratory analytical reports and chain-of-custody documents for the soil samples are included in Attachment A of this report.

Analytical results for soil samples D-1, D-2, and D-3 revealed low detections of TPH-d concentrations ranging from 5.1 mg/kg to 17 mg/kg and TPH-g ranging from <1.0 mg/kg to 44 mg/kg. All four samples had low concentrations of benzene ranging from <0.005 mg/kg to 0.38 mg/kg, toluene ranging from <0.005 mg/kg to <0.5 mg/kg, ethylbenzene ranging from <0.005 mg/kg to 0.63 mg/kg, and xylenes ranging from <0.005 mg/kg to 1.1 mg/kg. Concentrations of MTBE in soil samples D-1 and D-2 were <0.05 mg/kg, <0.25 mg/kg for sample D-3, and <5.0 mg/kg for sample D-4.

Soil sample D-4 had concentrations of TPH-d at 3,100 mg/kg and TPH-g at 560 mg/kg.

Lead was detected in soil sample D-1 at 280 mg/kg, at 36 mg/kg in soil sample D-2, at 160 mg/kg in soil sample D-3, and at 290 mg/kg in D-4.

Soil sample analytical data is included in table 1 of this report, and full analytical reports and chain-of-custody documents are included in Attachment A of this report.

CONCLUSIONS

Based on the soil sampling analytical data, and documentation presented in this report, EIS offers the following conclusions and recommendations:

- There were no detections of BTEX in soil samples D-1 through D-4 exceeding residential or commercial RWQCB ESLs.
- Concentrations of TPH-d at 3,100 mg/kg and TPH-g at 560 mg/kg were present in soil sample D-4, both of which are above the respective residential and commercial RWQCB ESLs. Soil samples D-1 through D-3 revealed no concentrations of TPH-g or TPH-d in excess of residential and commercial RWQCB ESLs.
- Because the soil sample D-4 had concentrations of TPH-g at 560 mg/kg and TPH-d at 3,100 mg/kg, each above their respective commercial RWQCB ESLs, EIS recommends this report be submitted to Alameda County Environmental Health Department.
- Lead was detected in sample D-1 at 280 mg/kg, in D-3 at 160 mg/kg, and in D-4 at 290 mg/kg, all of which are above residential RWQCB ESLs, but below RWQCB commercial ESLs. Lead was detected in sample D-2 at 36 mg/kg, which is below both residential and commercial ESLs.
- There were no detections of MTBE in samples D-1 through D-4. However, detection limits in samples D-1 through D-4 range from <0.05 mg/kg to <5.0 mg/kg, which are in excess of the respective residential and commercial ESL of 0.023 mg/kg. Therefore, concentrations of MTBE may be present in samples D-1 through D-4 at levels exceeding residential and commercial RWQCB ESLs.
- Based on the results of soil sampling performed in area of former fuel dispensers, there appears to be petroleum hydrocarbon impact in site soils.
- Because the soil sample D-4 had concentrations of TPH-g at 560 mg/kg and TPH-d at 3,100 mg/kg, each above their respective commercial RWQCB ESLs, EIS recommends this report be submitted to Alameda County Environmental Health Department.

LIMITATIONS

All reports and findings are based on the conditions and practices observed and information made available to Environmental Investigation Services, Inc. Our services consist of professional opinions and conclusions made herein were in accordance with generally accepted engineering principles and practices.

If you have any questions or comments regarding this report, please contact EIS at (408) 402-9800.

Sincerely,

Environmental Investigation Services, Inc.



Emlyn Stokes
Staff Geologist



Long Ching, P.E. #C39467
Senior Engineer



Attachments:

Table 1 – Summary of Soil Analytical Results

Figure 1 – Site Map

Figure 2 – Boring Locations

Attachment A – Laboratory Analytical Reports and Chain of Custody Documents

Table 1 - Summary of Soil Sample Analytical Results
1397 7th Street, Oakland, California

Boring ID	Depth	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Lead
<i>RWQCB ESLs (Residential A.1)</i>			100	100	0.044	2.9	3.3	2.3	0.023	80
<i>RWQCB ESLs (Commercial A.2)</i>			500	110	0.044	2.9	3.3	2.3	0.023	320
D-1	3'	4/9/2015	32	17	0.38	0.2	0.63	0.89	<0.05	280
D-2	4'	4/9/2015	<1.0	5.1	<0.005	<0.005	<0.005	<0.005	<0.05	36
D-3	5'	4/9/2015	44	6.4	0.19	0.12	0.061	0.37	<0.25	160
D-4	3'	4/9/2015	560	3,100	<0.5	<0.5	<0.5	1.1	<5.0	290

Notes

Data are reported in micrograms per liter (mg/kg)

EPA Method SW8021B/8015Bm for TPH, MTBE, and BTEX analysis

EPA Method SW6010B for Lead analysis

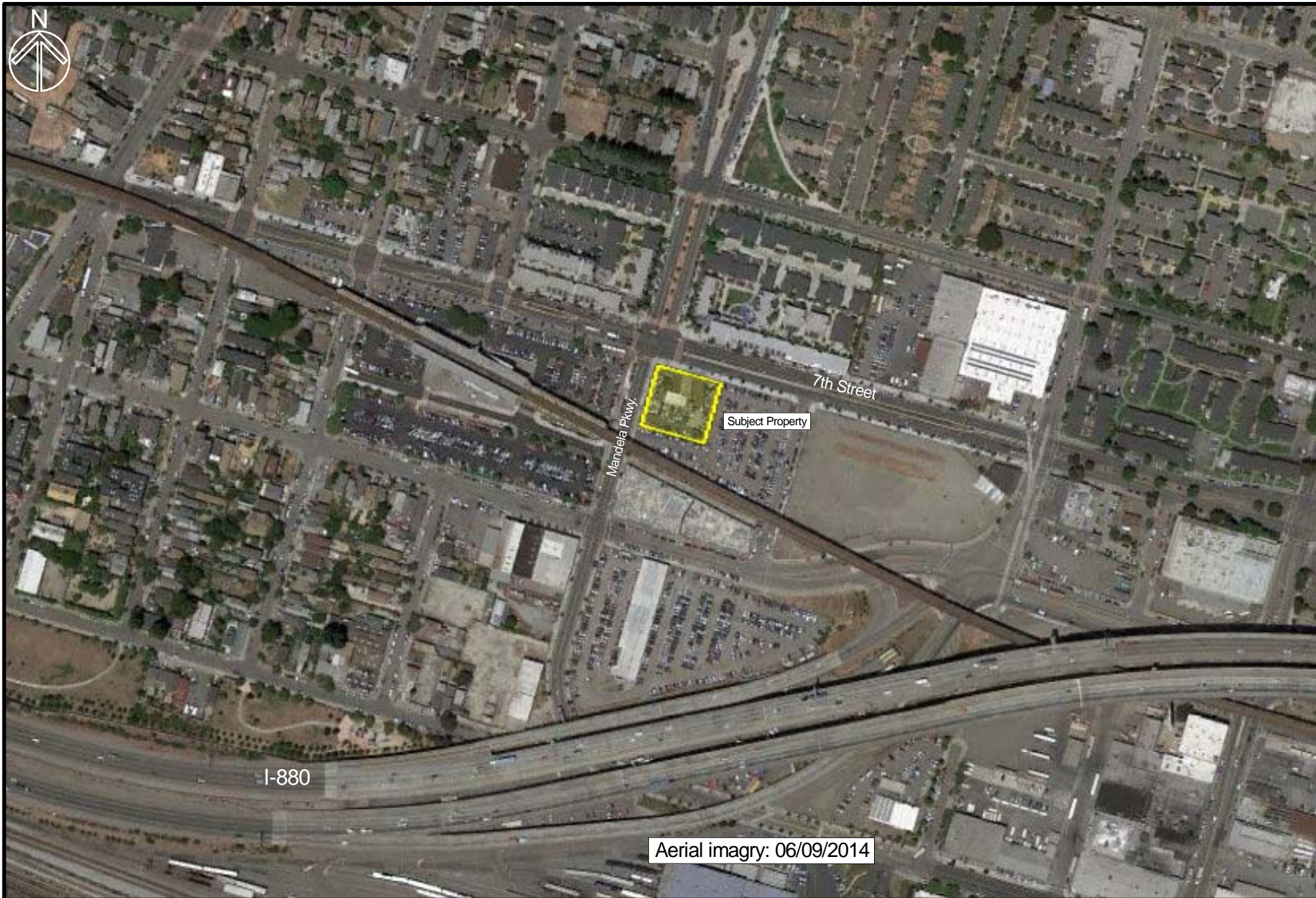
VOCs = Volatile Organic Compounds

Bold = results which are greater than ESLs

ND = Not detected

-- = Not established

RWQCB ESLs = Regional Water Quality Control Board's Environmental



**ENVIRONMENTAL
INVESTIGATION SERVICES, INC.**

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EIS Project # 1526-2

April 17, 2015

Figure 1

Site Location
1397 7th Street
Oakland, California

LEGEND

Soil Boring Locations



Subject Property

D-2 D-1
D-4 D-3

Mandela Pkwy

Aerial imagery: 06/09/2014

100 ft

ENVIRONMENTAL INVESTIGATION SERVICES, INC.
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EIS Project # 1526-1
April 17, 2015

Figure 2

Soil Boring Locations
1397 7th Street
Oakland, California



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1504449

Report Created for: Environmental Investigation Services, Inc.

15951 Los Gatos Blvd., Suite 17
Los Gatos, CA 95032

Project Contact: Peter Littman

Project P.O.:

Project Name: Oakland

Project Received: 04/09/2015

Analytical Report reviewed & approved for release on 04/15/2015 by:

Angela Rydelius,
Laboratory Manager

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





Glossary of Terms & Qualifier Definitions

Client: Environmental Investigation Services, Inc.
Project: Oakland
WorkOrder: 1504449

Glossary Abbreviation

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



Glossary of Terms & Qualifier Definitions

Client: Environmental Investigation Services, Inc.
Project: Oakland
WorkOrder: 1504449

Analytical Qualifiers

d1	weakly modified or unmodified gasoline is significant
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e4/e11	gasoline range compounds are significant.; and/or stoddard solvent/mineral spirit (?)
e4/e	gasoline range compounds are significant.; and/or value above quantitation range
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range



Analytical Report

Client: Environmental Investigation Services, Inc.
Project: Oakland
Date Received: 4/9/15 20:43
Date Prepared: 4/9/15-4/13/15

WorkOrder: 1504449
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D1	1504449-001A	Soil	04/09/2015 07:48	GC7	103461

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	32	1.0	1	04/11/2015 14:49
MTBE	ND	0.050	1	04/11/2015 14:49
Benzene	0.38	0.0050	1	04/11/2015 14:49
Toluene	0.20	0.0050	1	04/11/2015 14:49
Ethylbenzene	0.63	0.0050	1	04/11/2015 14:49
Xylenes	0.89	0.0050	1	04/11/2015 14:49

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	102	70-130	04/11/2015 14:49

Analyst(s): IA

Analytical Comments: d1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D2	1504449-002A	Soil	04/09/2015 08:19	GC19	103578

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/14/2015 01:43
MTBE	ND	0.050	1	04/14/2015 01:43
Benzene	ND	0.0050	1	04/14/2015 01:43
Toluene	ND	0.0050	1	04/14/2015 01:43
Ethylbenzene	ND	0.0050	1	04/14/2015 01:43
Xylenes	ND	0.0050	1	04/14/2015 01:43

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	94	70-130	04/14/2015 01:43

Analyst(s): IA

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Project: Oakland
Date Received: 4/9/15 20:43
Date Prepared: 4/9/15-4/13/15

WorkOrder: 1504449
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D3	1504449-003A	Soil	04/09/2015 07:57	GC19	103461

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	44	5.0	5	04/13/2015 15:05
MTBE	ND	0.25	5	04/13/2015 15:05
Benzene	0.19	0.025	5	04/13/2015 15:05
Toluene	0.12	0.025	5	04/13/2015 15:05
Ethylbenzene	0.061	0.025	5	04/13/2015 15:05
Xylenes	0.37	0.025	5	04/13/2015 15:05

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	105	70-130	04/13/2015 15:05

Analyst(s): IA

Analytical Comments: d7,d9

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D4	1504449-004A	Soil	04/09/2015 08:09	GC19	103461

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	560	100	100	04/10/2015 18:07
MTBE	ND	5.0	100	04/10/2015 18:07
Benzene	ND	0.50	100	04/10/2015 18:07
Toluene	ND	0.50	100	04/10/2015 18:07
Ethylbenzene	ND	0.50	100	04/10/2015 18:07
Xylenes	1.1	0.50	100	04/10/2015 18:07

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	100	70-130	04/10/2015 18:07

Analyst(s): IA

Analytical Comments: d7,d9



Analytical Report

Client: Environmental Investigation Services, Inc.
Project: Oakland
Date Received: 4/9/15 20:43
Date Prepared: 4/9/15

WorkOrder: 1504449
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D1	1504449-001A	Soil	04/09/2015 07:48	ICP-JY	103435

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	280	5.0	1	04/13/2015 10:25

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>
Tb 350.917	105	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D2	1504449-002A	Soil	04/09/2015 08:19	ICP-JY	103435

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	36	5.0	1	04/13/2015 10:18

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>
Tb 350.917	104	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D3	1504449-003A	Soil	04/09/2015 07:57	ICP-JY	103435

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	160	5.0	1	04/13/2015 10:15

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>
Tb 350.917	101	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D4	1504449-004A	Soil	04/09/2015 08:09	ICP-JY	103435

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	290	5.0	1	04/13/2015 10:13

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>
Tb 350.917	103	70-130

Analyst(s): DB



Analytical Report

Client: Environmental Investigation Services, Inc.
Project: Oakland
Date Received: 4/9/15 20:43
Date Prepared: 4/9/15

WorkOrder: 1504449
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D1	1504449-001A	Soil	04/09/2015 07:48	GC6B	103478

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	17	1.0	1	04/13/2015 14:33

Surrogates	REC (%)	Limits	Date Analyzed
C9	97	70-130	04/13/2015 14:33

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D2	1504449-002A	Soil	04/09/2015 08:19	GC11B	103478

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	5.1	1.0	1	04/13/2015 12:02

Surrogates	REC (%)	Limits	Date Analyzed
C9	107	70-130	04/13/2015 12:02

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D3	1504449-003A	Soil	04/09/2015 07:57	GC11B	103478

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	6.4	1.0	1	04/13/2015 15:37

Surrogates	REC (%)	Limits	Date Analyzed
C9	117	70-130	04/13/2015 15:37

Analyst(s): TK **Analytical Comments:** e7,e2,e4/e11

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D4	1504449-004A	Soil	04/09/2015 08:09	GC6A	103478

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	3100	200	200	04/14/2015 20:53

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	70-130	04/14/2015 20:53

Analyst(s): TK **Analytical Comments:** e2,e8,e4



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 4/9/15
Date Analyzed: 4/10/15
Instrument: GC3
Matrix: Soil
Project: Oakland

WorkOrder: 1504449
BatchID: 103461
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-103461
 1504439-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.707	0.40	0.60	-	118	70-130
MTBE	ND	0.0901	0.050	0.10	-	90	70-130
Benzene	ND	0.102	0.0050	0.10	-	102	70-130
Toluene	ND	0.104	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.104	0.0050	0.10	-	104	70-130
Xylenes	ND	0.311	0.0050	0.30	-	104	70-130

Surrogate Recovery

2-Fluorotoluene	0.0979	0.0949		0.10	98	95	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		5.5	NR	NR	-	NR	
MTBE	NR	NR		ND<0.5	NR	NR	-	NR	
Benzene	NR	NR		ND<0.05	NR	NR	-	NR	
Toluene	NR	NR		4.6	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.05	NR	NR	-	NR	
Xylenes	NR	NR		ND<0.05	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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(Cont.)



Quality Control Report

Client: Environmental Investigation Services, Inc.	WorkOrder: 1504449
Date Prepared: 4/13/15	BatchID: 103578
Date Analyzed: 4/13/15	Extraction Method: SW5030B
Instrument: GC19	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: Oakland	Sample ID: MB/LCS-103578 1504559-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.620	0.40	0.60	-	103	70-130
MTBE	ND	0.0884	0.050	0.10	-	88	70-130
Benzene	ND	0.115	0.0050	0.10	-	115	70-130
Toluene	ND	0.115	0.0050	0.10	-	115	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.380	0.0050	0.30	-	127	70-130

Surrogate Recovery

2-Fluorotoluene	0.114	0.114		0.10	114	114	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.618	0.613	0.60	ND	103	102	70-130	0.794	20
MTBE	0.0809	0.0803	0.10	ND	81	80	70-130	0.691	20
Benzene	0.108	0.108	0.10	ND	108	108	70-130	0	20
Toluene	0.111	0.110	0.10	ND	111	110	70-130	0.546	20
Ethylbenzene	0.115	0.114	0.10	ND	115	114	70-130	1.47	20
Xylenes	0.372	0.366	0.30	ND	124	122	70-130	1.83	20

Surrogate Recovery

2-Fluorotoluene	0.112	0.111	0.10		112	111	70-130	0.821	20
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Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 4/9/15
Date Analyzed: 4/10/15
Instrument: ICP-JY
Matrix: Soil
Project: Oakland

WorkOrder: 1504449
BatchID: 103435
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg
Sample ID: MB/LCS-103435

QC Summary Report for Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	45.9	5.0	50	-	92	75-125
Surrogate Recovery							
Tb 350.917	513	508		500	103	101	70-130



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 4/9/15
Date Analyzed: 4/10/15
Instrument: GC11A, GC9b
Matrix: Soil
Project: Oakland

WorkOrder: 1504449
BatchID: 103478
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-103478
 1504448-001AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.2	1.0	40	-	98	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-

Surrogate Recovery

C9	23.7	20.6		25	95	83	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	53.2	55.4	40	13.30	100	105	70-130	4.14	30

Surrogate Recovery

C9	25.0	25.1	25		100	100	70-130	0	30
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1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1504449

ClientCode: EISI

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Peter Littman
 Environmental Investigation Services, In
 15951 Los Gatos Blvd., Suite 17
 Los Gatos, CA 95032
 (408) 871-1470 FAX: (408) 871-1520

Email: plittman@eis1.net; emlyn@eis1.net; lching
 cc/3rd Party:
 PO:
 ProjectNo: Oakland

Bill to:
 Barbara
 Env. Investigation Svcs., Inc.
 15951 Los Gatos Blvd., Suite 17
 Los Gatos, CA 95032
 barbara@eis1.net

Requested TAT: 5 days

Date Received: 04/09/2015

Date Printed: 04/09/2015

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	
1504449-001	D1	Soil	4/9/2015 7:48	<input type="checkbox"/>	A	A	A										
1504449-002	D2	Soil	4/9/2015 8:19	<input type="checkbox"/>	A	A	A										
1504449-003	D3	Soil	4/9/2015 7:57	<input type="checkbox"/>	A	A	A										
1504449-004	D4	Soil	4/9/2015 8:09	<input type="checkbox"/>	A	A	A										

Test Legend:

1	G-MBTEX_S	2	PB_S	3	TPH(D)_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments:

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



WORK ORDER SUMMARY

Client Name: ENVIRONMENTAL INVESTIGATION SERVICES, INC.

QC Level: LEVEL 2

Work Order: 1504449

Project: Oakland

Client Contact: Peter Littman

Date Received: 4/9/2015

Comments:

Contact's Email: plittman@eis1.net; emlyn@eis1.net; lching@eis1.net

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1504449-001A	D1	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	4/9/2015 7:48	5 days		<input type="checkbox"/>			
			SW6010B (Lead)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1504449-002A	D2	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	4/9/2015 8:19	5 days		<input type="checkbox"/>			
			SW6010B (Lead)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1504449-003A	D3	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	4/9/2015 7:57	5 days		<input type="checkbox"/>			
			SW6010B (Lead)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1504449-004A	D4	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x6"	<input type="checkbox"/>	4/9/2015 8:09	5 days		<input type="checkbox"/>			
			SW6010B (Lead)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>						5 days	<input type="checkbox"/>

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

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

150449



McC Campbell Analytical, Inc.

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

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Peter Littman / Emlyn Stokes Bill To: EIS, Inc.

Company: Environmental Investigation Services, Inc.

15951 Los Gatos Blvd. Suite 17

Los Gatos, CA 95032 E-Mail: emlyn@eis1.net

Tele: (408) 402 9800 Fax: (408) 402 9800

Project #: Project Name: *Oakland*

Project Location: *1397 7th St, Oakland* Purchase Order#

Sampler Signature: *[Signature]*

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX									METHOD PRESERVED		BTEX/MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	BTEX/MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis				
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																				
D1		4/9/15	7:48	1						X																									
D2			8:19	1						X																									X
D3			7:57	1						X																									X
D4			8:09	1						X																								X	

Lead

**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.

Relinquished By: <i>[Signature]</i>	Date: 4/9/15	Time: 13:45	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 4/9	Time: 1730	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:

ICE/t° *5.0* COMMENTS:
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION _____ pH<2 _____



Sample Receipt Checklist

Client Name: **Environmental Investigation Services, Inc.** Date and Time Received: **4/9/2015 8:43:13 PM**
 Project Name: **Oakland** Login Reviewed by: **Jena Alfaro**
 WorkOrder No: **1504449** Matrix: Soil 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
 Sample/Temp Blank temperature Temp: 5°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

UCMR3 Samples:

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

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

 Comments: