



W.A. Craig:
6/16/98 Report

May 27, 1999

Mr. Nissan Saidain
5733 Medallion Court
Castro Valley, California 94522

RE: Summary of Soil and Groundwater Sample
Results from Waste Oil Storage Tank Excavation
Oakland Truck Stop
8255 San Leandro Street
Oakland, California

Dear Mr. Saidain:

The following letter has been written to provide a summary of soil and groundwater sample results obtained near the existing 500-gallon waste oil storage tank (WOST). Soil and groundwater samples were collected in order to obtain authorization from the City of Oakland Fire Department and Alameda County Environmental Health Services for closure-in-place of the WOST.

On January 5, 1999, the concrete slab and soil over the WOST was excavated during tank removal activities. Due to underground electrical lines running across the WOST, Penn Environmental ceased tank removal operations and contacted Mr. Hernan Gomez of the Oakland Fire Department. Penn Environmental met with Mr. Gomez at the site on January 6, 1999, to discuss the possibility of closing the tank in-place. Mr. Gomez informed Penn Environmental that closure-in-place may be permitted if the soil underneath the tank was found to be "clean". Based on this information, Penn Environmental collected ~~an~~ soil sample underneath the WOST on January 7, 1999 (See Appendix A : Initial Soil Sample Result). This soil sample (sample number 010799-801) reported non-detectable concentrations of TPHg, TPHd, BTEX, MTBE and VOCs. Low levels of lead (5.5 ppm) and 135 ppm of Oil and Grease were also detected in this sample.

During an unrelated subsurface investigation at the site, one boring (MW-4) was advanced to 15-foot bgs directly adjacent and down-gradient of the WOST. Three soil samples were collected at 5-foot intervals and one groundwater sample was collected from this boring (see Appendix B : Boring Results). Results of the soil samples reported non-detectable concentrations of VOCs and low levels of TPH. The groundwater sample reported non-detectable concentrations of VOCs and low levels of TPH (1.1 ppb).

Based on the soil and groundwater sample results obtained to date, The Oakland Fire Department and Alameda County Environmental Health Services indicated they would allow closure-in-place if one grab groundwater sample from the WOST pit was collected and reported allowable levels of Total Oil and Grease.

99 JUN -2 AM 9:30

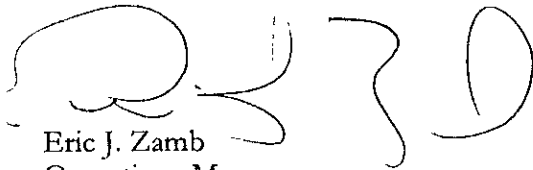
ENVIRONMENTAL
PROTECTION

On April 26, 1999, Penn Environmental collected one water sample from the WOST pit by excavating to groundwater and collecting the sample using a disposable teflon bailer. The sample was analyzed for Total Oil and Grease by EPA Method 418.1. This sample reported non-detectable concentrations for the tested constituent (see Appendix C : Final Groundwater Sample Result).

Based on the analytical results of the soil and groundwater samples, the owner of the site would like closure-in-place of the WOST to be granted by the City and County.

Should you have any questions regarding the above information, please contact our office.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric J. Zamb". The signature is stylized and somewhat cursive, with a large initial "E" and "Z".

Eric J. Zamb
Operations Manager

cc: Mr. Hernan Gomez - City of Oakland Fire Department
Mr. Barney Chan - Alameda County Environmental Health Services



APPENDIX A
INITIAL SOIL SAMPLE RESULT

JAN-19-99 TUE 15:20

KIFF ANALYTICAL

FAX NO. 5302974803

P. 01/04



Report Number : 13097

Date : 01/19/99

Eric Zamb
Penn Environmental
1261 Travis Blvd., Suite 380
Fairfield, CA 94533

Subject : 1 Soil Sample
Project Name : Oakland Truck Stop
Project Number :

Dear Mr. Zamb,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,


Joel Kiff

JAN-19-99 TUE 15:20

KIFF ANALYTICAL

FAX NO. 5302974803

P. 02/04



Report Number : 13097

Date : 01/19/99

Project Name : **Oakland Truck Stop**

Project Number :

Sample : **010799-801**

Matrix : Soil

("underneath" west)

Sample Date : 01/07/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	01/11/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	01/11/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	01/11/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	01/11/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	01/11/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	01/11/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	01/13/99
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	01/11/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	01/11/99
1-Chlorooctadecane (Diesel Surrogate)	113		% Recovery	M EPA 8015	01/13/99
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99

Approved By: Joel Kiff

JAN-19-99 TUE 15:21

KIFF ANALYTICAL

FAX NO. 5302974803

P. 03/04



Report Number : 13097

Date : 01/19/99

Project Name : **Oakland Truck Stop**

Project Number :

Sample : 010799-801

Matrix : Soil

Sample Date :01/07/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Acetone	< 0.050	0.050	mg/Kg	EPA 8240A	01/11/99
2-Butanone	< 0.050	0.050	mg/Kg	EPA 8240A	01/11/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
2-Hexanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	01/11/99
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8240A	01/11/99
1,2 Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8240A	01/11/99
Toluene - d8 (Surr)	108		% Recovery	EPA 8240A	01/11/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8240A	01/11/99

Approved By:  Joel Kiff



alpha

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482

CHEMICAL EXAMINATION REPORT (707) 468-0401

Kiff Analytical
720 Olive Drive
Suite D
Davis, CA 95616
Attn: Joel Kiff

Date Printed
1/14/99
Page
1

Batch Number	Receipt Date	Client	Client P.O.	Send Via
99-0108-026	01/08/99 10:40	KIFFLAB	13097	Mail

BATCH	RECEIPT DATE	CLIENT	CLIENT P.O.	SEND VIA	METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL	DILUTION
Batch 99-0108-026 consisted of 1 Sample and 2 Tests											
Sample 1	010759-801	Oakland Truck Stop									
	Sample Type: Soil	Sampled by:					Sampled: 1/07/99				
Lead			6010				1/11/99	5.5	mg/kg	5	
Oil & Grease			5520D&P				1/12/99	135	mg/kg	50	

PQL - Practical Quantitation Limit ND - None Detected
* - Indicates Detection Limit altered due to Sample Dilution

NOTES:

Bruce L. Gove
Laboratory Director

Date Printed: 1/14/99

P. 02/02

FAX NO. 11312

ALPHA ANALYTICAL LABORAT

JAN-14-99 THU 04:10 PM

13097

KIFF ANALYTICAL SUBCONTRACT FORM

Please mail results to : Please fax to :

JOEL KIFF
KIFF ANALYTICAL
720 OLIVE DRIVE, SUITE D
DAVIS, CA 95616

530-297-4803

Subcontract Lab: Alpha Analytical
860 Waugh Lane, H-1
Ukiah, CA 95482

707-468-0401

Account No. : KIFFLAB

PROJECT NAME : Oakland Truck Stop

PROJECT NUMBER:

Sample	Matrix	Sampled	Tests	Due
010799-801	SO	01/07/99	Lead - ICAP	01/14/99
010799-801	SO	01/07/99	O&G GRAV + SILICA GEL (5520E,F)	01/14/99

1 - Baggie
1 - Jar

Relinquished by: Mary Corbit
Relinquished by: _____
Relinquished by: _____

Date/Time: 1/7/99/1718
Date/Time: 1/8/99/1040
Date/Time: _____

Received by: _____
Received by: Juan Mella Calif
Overtime
Received by: _____

APPENDIX B
BORING RESULTS

MAR-18-99 THU 03:37

KIFF ANALYTICAL

FAX NO. 5302974803

P. 06/08



Report Number : 13480

Date : 03/18/99

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **030299-MW4**

Matrix : Water

Sample Date :03/02/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Chloromethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Bromomethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Chloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Methylene Chloride	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Chloroform	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Benzene	0.51	0.50	ug/L	EPA 8240A	03/06/99
Trichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Toluene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
P,M-Xylene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
O-Xylene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Styrene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
Bromoform	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/06/99

Approved By:  Joel Kiff

MAR-18-99 THU 03:38

KIFF ANALYTICAL

FAX NO. 5302974803

P. 07/08



Report Number : 13480

Date : 03/18/99

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **030299-MW4**

Matrix : Water

Sample Date :03/02/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	< 50	50	ug/L	EPA 8240A	03/06/99
2-Butanone	< 5.0	5.0	ug/l.	EPA 8240A	03/06/99
4-Methyl-2-Pentanone	< 5.0	5.0	ug/L	EPA 8240A	03/06/99
2-Hexanone	< 5.0	5.0	ug/L	EPA 8240A	03/06/99
Dibromofluoromethane (Surr)	98.9		% Recovery	EPA 8240A	03/06/99
1,2-Dichloroethane-d4 (Surr)	98.2		% Recovery	EPA 8240A	03/06/99
Toluene - d8 (Surr)	101		% Recovery	EPA 8240A	03/06/99
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8240A	03/06/99

Approved By:  Joel Kiff



Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482

CHEMICAL EXAMINATION REPORT (707) 468-0401

Kiff Analytical
720 Olive Drive
Suite D
Davis, CA 95616
Attn: Joel Kiff

Date Printed 3/05/99 Page 1

Batch Number 99-0303-005 Receipt Date 03/03/99 09:50 Client KIFFLAB Client P.O. 13480 Send Via Mail

METHOD EXTRACTED TEST DATE RESULT UNITS PQL DILUTION

Sample 2 030299-MW4 Oakland Truck Stop 98042

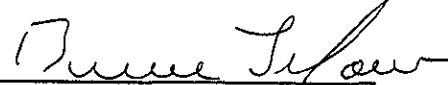
Sample Type: Water Sampled by: Sampled: 3/02/99

Total Petroleum Hydrocarbons 418.1 3/04/99 1.1 mg/L 1

PQL - Practical Quantitation Limit ND - None Detected
* - Indicates Detection Limit altered due to Sample Dilution

NOTES:

Bruce L. Gove
Laboratory Director


Date Printed: 3/05/99



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No 13480

Page 1 of 1

Project Manager: MR. ERIC J. ZAMB Phone No.: (707) 421-1595

Company/Address: PENN ENVIRONMENTAL FAX No.: (707) 425-0257

Chain-of-Custody Record and Analysis Request

Project Number: 98042 P.O. No.: --- Project Name: DAKLAND TRUCK STOP

Project Location: 8255 SAN LEANDRO ST., DAKLAND Sampler Signature: [Signature]

Analysis Request

TAT For Lab Use Only

Sample Designation	Sampling		Container (Type/Amount)				Method Preserved				Matrix	Analysis Request												TAT	For Lab Use Only					
	Date	Time	40 ml VOA	SLEEVE	1L GLASS	500 ml GLASS	Sulfuric Acid	HCl	HNO ₃	ICE	NONE	WATER/SOIL	BTEX (8020)	BTEX/TPH Gas/MTBE (8020/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	5 Oxygenates/TPH Gas/BTEX (8260)	7 Oxygenates/TPH Gas/BTEX (8260)	5 Oxygenates (8260)	7 Oxygenates (8260)	EPA 8260	EPA 8270	Lead (7421/239.2)			Cd, Cr, Pb, Zn, Ni	Total Oil & Grease	8240 - VOCs	12 hr/24 hr/48 hr/72 hr/1 wk/2 wk	
030299-MW1	3/2/99	1040	3						✓		✓		✓	✓															2w	-01
030299-MW2	↓	1015	3		2	✓			✓		✓		✓	✓											✓	✓		2w	-02	
030299-MW3	↓	1120	3						✓		✓		✓	✓														2w	-03	
030299-MW4	↓	1151	3		2	✓			✓		✓		✓	✓											✓	✓		2w	-04	

Relinquished by: [Signature] Date: 3/2/99 Time: 1017 Received by: [Signature]

Remarks:

Relinquished by: [Signature] Date: 3/2/99 Time: 1017 Received by: [Signature]

Email address: .doc xls .txt other _____

Relinquished by: [Signature] Date: 3/2/99 Time: 1017 Received by Laboratory: Mary Cobb

Bill to:

MAR-16-99 TUE 16:47

KIFF ANALYTICAL

FAX NO. 5302974803

P. 21/35



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**Project Number : **98042**

Sample : 021999-MW4-1C

Matrix : Soil

Sample Date : 02/19/99

is this 5, sple?

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
cis-1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

MAR-16-99 TUE 16:47

KIFF ANALYTICAL

FAX NO. 5302974803

P. 22/35



Report Number : 13409

Date : 03/16/99

Project Name : Oakland Truck Stop

Project Number : 98042

Sample : 021999-MW4-1C

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Acetone	0.097	0.050	mg/Kg	EPA 8240A	03/02/99
2-Butanone	< 0.050	0.050	mg/Kg	EPA 8240A	03/02/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
2-Hexanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/02/99
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8240A	03/02/99
1,2-Dichloroethano-d4 (Surr)	103		% Recovery	EPA 8240A	03/02/99
Toluene - d8 (Surr)	101		% Recovery	EPA 8240A	03/02/99
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8240A	03/02/99

Approved By: Joe Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

MAR-16-99 TUE 16:48

KIFF ANALYTICAL

FAX NO. 5302974803

P. 23/35



Report Number : 13409

Date : 03/16/99

Project Name : Oakland Truck Stop

Project Number : 98042

Sample : 021999-MW4-2C

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99

Approved By:  Joel Kiff

MAR-16-99 TUE 16:48

KIFF ANALYTICAL

FAX NO. 5302974803

P. 24/35



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **021999-MW4-2C**

Matrix : Soil

Sample Date : 02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	< 0.050	0.050	mg/Kg	EPA 8240A	03/01/99
2-Butanone	< 0.050	0.050	mg/Kg	EPA 8240A	03/01/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
2-Hexanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Dibromofluoromethane (Surr)	99.8		% Recovery	EPA 8240A	03/01/99
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8240A	03/01/99
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8240A	03/01/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8240A	03/01/99

Sample : **021999-MW4-3C**

Matrix : Soil

Sample Date : 02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99

Approved By:  Joel Kiff

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MAR-16-99 TUE 16:49

KIFF ANALYTICAL

FAX NO. 5302974803

P. 25/35



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **021999-MW4-3C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Acetone	< 0.050	0.050	mg/Kg	EPA 8240A	03/01/99
2-Butanone	< 0.050	0.050	mg/Kg	EPA 8240A	03/01/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
2-Hexanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/01/99
Dibromofluoromethane (Surr)	100		% Recovery	EPA 8240A	03/01/99
1,2-Dichloroethane-d4 (Surr)	98.0		% Recovery	EPA 8240A	03/01/99
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8240A	03/01/99
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8240A	03/01/99

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

MAR-16-99 TUE 16:51

KIFF ANALYTICAL

FAX NO. 5302974803

P. 29/35



Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482

CHEMICAL EXAMINATION REPORT (707) 468-0401

Kiff Analytical
720 Olive Drive
Suite D
Davis, CA 95616
Attn: Joel Kiff

Date Printed 3/05/99 Page 2

Batch Number 99-0224-010 Receipt Date 02/24/99 09:50 Client KIFFLAB Client P.O. 13409 Send Via Mail

METHOD EXTRACTED TEST DATE RESULT UNITS PQL DILUTION

Sample 7 021999-MW4-1C
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99

Total Petroleum Hydrocarbons 418.1 3/04/99 81 mg/kg 50

Sample 8 021999-MW4-2C
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99

PQL - Practical Quantitation Limit ND - None Detected
* - Indicates Detection Limit altered due to Sample Dilution

NOTES:

Bruce L. Gove Laboratory Director 
Date Printed: 3/05/99

MAR-16-99 TUE 16:51

KIFF ANALYTICAL

FAX NO. 5302974803

P. 30/35



Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482

CHEMICAL EXAMINATION REPORT (707) 468-0401

Kiff Analytical
720 Olive Drive
Suite D
Davis, CA 95616
Attn: Joel Kiff

Date Printed
3/05/99

Page
3

Batch Number	Receipt Date	Client	Client P.O.	Send Via
99-0224-010	02/24/99 09:50	KIFFLAB	13409	Mail

	METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL	DILUTION
(Sample 8 021999-MW4-2C -- continued)							
Total Petroleum Hydrocarbons		418.1	3/06/99	70	mg/kg	50	

PQL - Practical Quantitation Limit ND - None Detected
* Indicates Detection Limit altered due to Sample Dilution

NOTES:

Bruce L. Gove
Laboratory Director

Bruce L. Gove
Date Printed: 3/05/99

APPENDIX C
FINAL GROUNDWATER SAMPLE RESULT



Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482

CHEMICAL EXAMINATION REPORT (707) 468-0401

Kiff Analytical
720 Olive Drive
Suite D
Davis, CA 95616
Attn: Joel Kiff

Date Printed 5/12/99 Page 1

Batch Number 99-0429-019 Receipt Date 04/29/99 11:00 Client KIFFLAB Client P.O. 13891 Send Via Mail

METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL	DILUTION
Batch 99-0429-019 consisted of 1 Sample and 1 Test						
Sample 1	042699-W1					
	Waste Oil Tank Sampling #PE99-2469					
	Sample Type: Water	Sampled by:	Sampled: 4/26/99			
Total Petroleum Hydrocarbons	410.1	5/05	5/07/99	ND	mg/l	1

PQL - Practical Quantitation Limit ND - None Detected
• - Indicates Detection Limit altered due to Sample Dilution

NOTES:

Bruce L. Gove
Laboratory Director

Bruce L. Gove
Date Printed: 5/12/99

P. 02/02

13891

KIFF ANALYTICAL SUBCONTRACT FORM

Please mail results to : Please fax to :

JOEL KIFF
KIFF ANALYTICAL
720 OLIVE DRIVE, SUITE D
DAVIS, CA 95616
530-297-4803

Subcontract Lab: **Alpha Analytical**
860 Waugh Lane, H-1
Ukiah, CA 95482

5/12

707-468-0401

Account No. : KIFFLAB

PROJECT NAME : Waste Oil Tank Sampling
PROJECT NUMBER: PE99-2469

Sample	Matrix	Sampled	Tests	Due
042699-W1	WA	04/26/99	O&G IR + SILICA GEL (5520E,F,C/418.1/TRPH)	05/05/99 <i>99-0429-19-1</i>

Date: 5/18/99 Time: 3:34:44 PM

FAX NO. 11312

ALPHA ANALYTICAL LABORAT

MAY-12-99 WED 04:41 PM

From: Login To: Penn

Relinquished by : *Mary Corbit*

Date/Time: *4/28/99 1716*

Received by: _____

Relinquished by : _____

Date/Time: *4/29/99 1100*

Received by: *Lisa Jensen Calif over Mike*

Relinquished by : _____

Date/Time: _____

Received by: _____

