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President

July 16, 1999

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SUBJECT: Preliminary Soil and Groundwater Assessment
Oakland Truck Stop
8255 San Leandro Street
Oakland, California

Dear Mr. Saidian:

As requested and authorized, we have performed a Preliminary Soil and Groundwater Assessment with respect to the above referenced property. The purpose of this Investigation is to characterize and define the vertical and lateral extent of petroleum hydrocarbon contamination, if any, in the soil and groundwater of the site.

The accompanying report presents a description of the site; and the scope of work, along with the findings and conclusions of this investigation.

In summary, hydrocarbon contamination was detected in the soil samples obtained from most of the borings. Additionally, hydrocarbon contamination was also detected in the groundwater samples obtained from the borings and monitoring wells.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding the information contained in this report, please contact our office.

Respectfully submitted,

PENN ENVIRONMENTAL

Robert Y.C. Chew, G.E.
Geotechnical Engineer
G.E. 2009



Douglas Thompson
Project Manager

Distribution: Mr. N. Saidian (3 copies)-Owner
Mr. B. Chan (1 copy)-Alameda County
Mr. H. Gomez (1 copy)-Oakland Fire Department
Ms. C. Gordon (1 copy)-UST Cleanup Fund

**PRELIMINARY SOIL AND GROUNDWATER ASSESSMENT
OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA**

A REPORT PREPARED FOR:

Mr. Nissan Saidain
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A REPORT PREPARED BY:

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JULY 16, 1999



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**PRELIMINARY SOIL AND GROUNDWATER ASSESSMENT
OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA**

I. INTRODUCTION

As requested and authorized, we have performed a Preliminary Soil and Groundwater Assessment of the Oakland Truck Stop site, located at 8255 San Leandro Street, in Oakland, California. The objective of this study was to assess the extent of impacted soil and groundwater with respect to reported releases from the former waste oil and gasoline underground storage tanks (USTs). Proximity of the site is indicated in Figure 1: Site Vicinity Map.

This assessment was undertaken in response to the Alameda County Environmental Health Services acceptance of Penn Environmental's Preliminary Soil and Groundwater Quality Investigation work plan dated December 16, 1998. The County's acceptance of this work plan is documented in a County letter dated January 4, 1999.

II. SITE DESCRIPTION

The site is located on the southwest side of San Leandro Street, bounded by 81st Avenue to the northwest and 85th Avenue to the southeast. The facility consists of an existing one-story service station/building located in the center of the site, a truck washing facility located immediately southwest of the station building, and three fuel islands located northeast of the building. The remaining portion of the site is asphalt- or concrete-paved. A drainage canal is located along the southwest property line. Layout of the site is shown on Figure 2: Site Plan.

III. BACKGROUND

The site appears to have been in continuous use as a truck stop since the early 1960s.

On March 8, 1998, W.A. Craig, Inc. removed one waste oil UST (500-gallon) and two gasoline USTs (4,000-gallon). Three diesel USTs (1 10,000-gallon, 1 8,000-gallon and 1 6,000-gallon) remain in operation at the site. Holes were observed in the waste oil storage tank.

Confirmation soil samples collected from the gasoline UST excavation were analyzed for total petroleum hydrocarbons as gasoline with benzene, toluene, ethylbenzene, xylenes and methyl tert-butyl ether (TPH-G/BTEX/MTBE), and total petroleum hydrocarbons as diesel (TPH-D). TPH-G was reported in the soil samples at concentrations ranging from 10 to 460 parts per million (ppm); BTEX constituents including benzene (0.045 to 5.8 ppm); toluene (0.030 to 1.7 ppm); ethylbenzene (0.024 to 8.2 ppm); and xylenes (0.053 to 3.3 ppm). MTBE was detected in the soil samples at concentrations ranging from below the laboratory detection limits to 0.64 ppm. TPH-D was reported at concentrations ranging from 3.6 to 930 ppm.



Groundwater appeared to have been observed in the gasoline UST excavation; rather than the waste oil UST excavation, as reported in the W.A. Craig report. Additionally, W.A. Craig reported that testing of a groundwater sample collected from the excavation detected a TPH-G concentration of 5,500 parts per billion (ppb), MTBE at 1,900 ppb, and TPH-D at 880,000 ppb. BTEX was reported at 580 ppb, 12 ppb, 180 ppb, and 39 ppb, respectively. The CAM 5 metals - cadmium (0.016 ppb), chromium (0.36 ppb), lead (2.6 ppb), nickel (0.13 ppb) and zinc (3.0 ppb) were also detected in the groundwater sample.

Confirmation soil samples collected from the waste oil UST excavation were analyzed for TPH-G/-BTEX, MTBE, TPH-D, and CAM 5 metals (cadmium, chromium, lead, nickel and zinc). TPH-G was detected in the soil samples at concentrations ranging from 950 to 3,600 ppm. BTEX constituents detected included benzene (below detection limit to 2.1 ppm), toluene (0.068 to 8.0 ppm), ethylbenzene (1.6 to 18 ppm) and xylenes (3.5 to 15.0 ppm). MTBE was detected at concentrations ranging from below the detection limit to 8.1 ppm. TPH-D was reported between 6,500 to 21,000 ppm. CAM 5 Metals reported cadmium at non-detectable concentrations, chromium between 1.1 and 8 ppm, lead between 10 and 16 ppm, nickel between non-detectable concentrations and 7.3 ppm, and zinc between 110 and 130 ppm.

W.A. Craig reported that visual, olfactory, and photoionization detector readings during the UST removal indicated that the contaminated soil from both the gasoline and waste oil UST excavations were completely removed. The contaminated soil was stockpiled on site, profiled for disposal, and hauled off site to a Class II landfill. The excavations were backfilled with clean imported material and compacted to the original grade.

*Qualitative
at best.*

The UST closure activities were summarized in greater detail in W. A. Craig, Inc's "Final Closure Report for Underground Storage Tank Removal" dated June 16, 1998.

IV. SCOPE OF WORK

The scope of work for this Preliminary Soil and Groundwater Assessment consisted of the following:

- (1) Advanced thirteen shallow exploratory borings, and obtained soil samples;
- (2) Converted four of the borings into groundwater monitoring wells;
- (3) Collected grab-groundwater samples from the eight borings not converted into groundwater monitoring wells;
- (4) Developed the groundwater monitoring wells and collected groundwater samples;
- (5) Performed analytical testing on the recovered soil and groundwater samples;
- (6) Prepare this report documenting our findings of the investigation and conclusions, and present the results of the analytical testing.

Specifics of the individual investigative phases are described in the following sections of this report.



V. PERMITS AND NOTIFICATIONS

A permit for our field exploratory work was applied for and received from the County. The Bay Area Air Quality Management District (BAAQMD) and the Occupational Safety and Health Administration of California (CAL-OSHA) were notified of the project by facsimile.

VI. SUBSURFACE INVESTIGATION

The subsurface investigation of the subject site consisted of drilling 13 exploratory borings, converting four borings into groundwater monitoring wells, and the recovery of soil and groundwater samples from each boring at varying depths. The soil and groundwater samples obtained from the borings were submitted for analytical testing. A detailed description of the exploratory borings and monitoring well installation are presented below; description of the testing are presented in the ANALYTICAL TESTING section of this report.

On February 8, 18 and 19, 1999, 13 exploratory borings were drilled at the site with four of the borings subsequently converted into groundwater monitoring wells; the approximate locations of the borings and monitoring wells are indicated on Figure 2: Site Plan. The borings were drilled by Bayland Drilling, Inc, a State of California licensed drilling contractor (License No. 374152).

Exploratory Borings - The exploratory borings were advanced using an 8-inch, nominal diameter, continuous flight hollow stem auger. Soil samples were collected from the borings at four- to five-foot intervals, through the use of a 2-inch I.D. split barrel sampler, to the maximum explored depth of 16 feet below grade (fbg). The sampler was advanced into the soil ahead of the auger by a 140-pound hammer repeatedly falling 30-inches. Pre-cleaned brass liners were placed in the sampler to retain the soil. The blow counts necessary to advance the sampler were recorded for each 6-inch interval. The borings were logged under the supervision of a field engineer. The log of the borings are presented in Figures 3 through 15. Explanations of the symbols used in the boring logs are shown on Figure 16.

~~Boring B5 was terminated at approximately 3 feet when it encountered obstruction. After several unsuccessful attempts in relocating the boring, the drilling of this boring was discontinued.~~

The drill cuttings and soil samples obtained from the borings were monitored during drilling for evidence of hydrocarbon content, to observe for moisture changes in the soils and to determine the depth of the first saturated zone, changes in lithology and areas of obvious contamination. The borings were advanced to approximately 16 fbg. One grab groundwater sample was collected from each boring (excluding MW1 - MW4) upon completion of drilling activities. Following the completion of sampling, the boreholes not converted into monitoring wells were backfilled with grout consisting of a mixture of Portland cement and bentonite.

Drilling and sampling equipment used for advancing the borings were steam-cleaned before drilling and sampling began to prevent introduction of off-site contamination. Sampling equipment was



cleaned between sampling events and between each boring by using a phosphate-free detergent bath and double rinsed to prevent cross contamination. Pre-cleaned brass liners were placed in the sampler to retain the soil samples.

Soil samples were collected in 6-inch by 2-inch diameter brass liners. The liners were sealed using aluminum foil, and plastic end caps. Grab groundwater samples were obtained from the exploratory borings using disposable teflon bailers and placed in either 40-milliliter sterilized glass vials or one-liter amber glass jars with the appropriate preservative. Labels indicating the date, time, job number, and sampling location were affixed to each sample. Samples were stored in an ice-cooled chest and transported under chain-of-custody to Kiff Analytical, a California State Certified Laboratory.

Monitoring Well Installation - Upon completion of drilling and soil sample collection of MW1 through MW4, these borings were converted into groundwater monitoring wells. The locations of the wells are shown on Figure 2: Site Plan. ~~The wells were installed to depths of approximately 15 fbg.~~ The monitoring wells were constructed by installing 2-inch nominal diameter polyvinyl chloride (PVC) flush-threaded casing and slotted pipe directly through the hollow stem auger. The slotted sections consisted of 0.020-inch factory perforations. ~~The slotted pipes extended from 5 to 15 fbg.~~ with the upper 5-foot section of the well consisting of solid (non-perforated) casing.

The monitoring wells were filter packed with No. 3 sand to approximately one foot above the top of the slotted section. The filter-pack material was installed in the annular space between the monitoring well pipe and the auger as the auger was removed. To assure continuity and integrity of the filter material, and to prevent the borehole from caving in, only one five-foot section of the auger was removed at a time.

A one-foot layer of bentonite pellet seal was placed above the filter material, and the remainder of the well was filled with concrete to within one foot of grade. The well casings have locking caps and are enclosed inside watertight traffic boxes installed in concrete flush with the existing ground surface. The construction of the monitoring wells are shown in Figures 12 through 15.

Monitoring Well Development - The monitoring wells were allowed to stabilize for a minimum of 72 hours following construction. On March 2, 1999, the groundwater level was measured in the wells using an electronic level meter.

Subsequently, the wells were each purged a minimum of four well volumes or until the discharged water appeared clear of sediment. Approximately 20 to 25 gallons of groundwater were purged from each well. Initial observations during development of MW1 and MW3 revealed a minor hydrocarbon odor and sheen. No evidence of hydrocarbon odor or sheen was noted in MW2 or MW4.

Electrical conductivity, temperature and pH of the groundwater were recorded throughout the development process. The wells were allowed to recover a minimum of one hour between development and sampling activities.

Groundwater samples were obtained from the wells using disposable teflon bailers; the samples were



placed in 40-milliliter sterilized glass vials or one-liter amber glass jars with the appropriate preservative. Labels indicating the date, time, job number, and sampling location were affixed to each sample. Samples were stored in an ice-cooled chest and transported under chain-of-custody to Kiff Analytical, a California State Certified Laboratory.

The soil cuttings and rinsate water derived from the borings and wells were retained in 55-gallon steel containers with lid covers. The disposal of the cuttings and rinsate water remains the responsibility of the client.

VII. SUBSURFACE AND GROUNDWATER CONDITIONS

Below the pavement, the borings encountered generally clay and silty clay with occasional inclusion of thin sandy soil layers within the upper 15 feet. From about 15 feet to the maximum explored depth of 16.5-feet, the borings encountered silty and clayey sands. The boring logs (Figures 3 through 15) provide a more detailed description of the material encountered in the borings.

Hydrocarbon odor was detected at various depths during drilling of Borings B1 through B4, B6 through B8, and MW1 and MW3.

Groundwater measured in the borings after the drilling operations ranges between about 5 to 6 fbg.

VIII. GROUNDWATER LEVEL

The depth to groundwater from the top of the well casing in each well was measured (to the nearest 0.01 foot) with an electronic water level meter. The respective groundwater level and groundwater elevations for each monitoring well are listed below.

03/02/99 — DATE

WELL NUMBER	TOP OF WELL ELEVATION (feet)	GROUNDWATER LEVEL (feet)	GROUNDWATER ELEVATION (FEET)
MW1	97.12	5.15	91.97
MW2	96.82	4.99	91.83
MW3	96.43	4.98	91.45
MW4	96.60	5.00	91.60

Based on the groundwater level measurements during this investigation, the shallow groundwater flows in a south-southwesterly direction beneath the site at a gradient of approximately 0.015 ft/ft.



IX. ANALYTICAL TESTING

The soil and groundwater samples recovered from the borings and monitoring wells were submitted to Kiff Analytical, a State of California Certified Laboratory, for analytical testing. Analytical testing was scheduled and performed in accordance with the Regional Water Quality Control Board Guidelines.

The soil and groundwater samples obtained from borings located in non-waste oil tank area (Borings B1, B2, B4, B6 through B9, and MW1 and MW3) were analyzed for TPH-G and TPH-D by EPA Method 8015M; and BTEX/MTBE by EPA Method 8020.

Soil and groundwater samples obtained from borings located in the vicinity of the former waste oil tank area (Borings B3, MW2 and MW4) were analyzed for Total Oil and Grease (Total Petroleum Hydrocarbons) by Method 418.1, and Volatile Organics Compounds by EPA Method 8240. The tests were performed on a standard (10-working days) turn-around.

Summary of the tests performed and the analytical test results are presented in Table 1 (Non-Waste Tank Area) and Table 2 (Waste Oil Tank Vicinity). The analytical test results, along with the Chain-of-Custody record are presented in Appendix A.

*a confirm MTBE w/ GCMS
open 8270 for metals can
bequest
TOG*

X. FINDINGS AND CONCLUSIONS

The results of analytical testing of soil samples obtained from exploratory Boring B7 reported non-detectable concentrations of the tested constituents.

The analytical testing of soil samples obtained from the exploratory borings and monitoring wells located in the non-waste oil tank area (Borings B1, B2, B4, B6-B9, and MW1 and MW3) detected the following: TPH-G (ND-below the laboratory detection limits to 1200 ppm); TPH-D (ND to 2800 ppm); Benzene (ND to 5.6 ppm); Toluene (ND to 2.6 ppm); Ethylbenzene (ND to 10 ppm); Xylenes (ND to 9.8 ppm); and Mtbe (ND to 3.9 ppm). Additionally, groundwater samples obtained from these borings/wells detected the following: TPH-G (ND to 68000 ppb); TPH-D (ND to 62000 ppb); Benzene (ND to 24000 ppb); Toluene (ND to 390 ppb); Ethylbenzene (ND to 2000 ppb); Xylenes (ND to 2300 ppb); and Mtbe (ND to 28000 ppb).

The analytical testing of soil samples obtained from the exploratory borings and monitoring wells located in the vicinity of the former waste oil tank area (Borings B3, MW2 and MW4) detected the following: Total Oil and Grease (63 to 440 ppm); and BTEX (ND to low levels). Additionally, groundwater samples obtained from these borings/wells detected the following: Total Oil and Grease (1.1 to 25 ppb); and BTEX (ND to 300 ppb).

We anticipate that the wells be monitored on a quarterly basis for at least a year.



XI. LIMITATIONS

This report has been prepared for the exclusive use of Mr. Nissan Saidian at his representatives. Unauthorized use of or reliance on the information contained in this report, unless given expressed written consent by Penn Environmental, is strictly prohibited.

The findings and conclusions presented in this report are based on data obtained from this subsurface soil and groundwater investigation. The investigation only observed a small portion of the soil and groundwater conditions at the site. Background information and subsurface conditions across the site have been extrapolated from information provided to us from previous reports and from the field investigation. No attempt was made to verify the accuracy of the information provided by others used in preparation of this report. The conclusions made herein are based on the assumption that soil conditions do not deviate appreciably from those described in the reports and observed in the field investigation.

This report has been prepared in accordance with generally accepted methodologies and standards of practice of the area. No warranty, expressed or implied, is made as to the findings and conclusions presented in this report. This report provides neither a certification nor guarantee that the property is free of hazardous substance contamination.

The findings in this report are valid as of the present. Site conditions may change with the passage of time, natural processes or human intervention, which can invalidate the findings and conclusions presented in this report.



TABLE 1 - Non-Waste Oil Tank Area

Sample I.D.	Date Sampled	Boring No.	Depth (feet)	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Mtbe (ppm)
Soil Sample Results										
021999-B1-1C	2/19/99	B1	4.0	24	1600	0.062	0.057	0.14	0.61	0.23
021999-B1-2C	2/19/99	B1	11.0	21	330	0.040	0.047	0.16	0.64	0.71
021999-B1-3C	2/19/99	B1	16.0	<1.0	9.9	<0.0050	<0.0050	<0.0050	<0.0050	0.70
021999-B2-1C	2/19/99	B2	4.0	67	660	0.33	0.074	0.29	0.34	3.9
021999-B2-2C	2/19/99	B2	11.0	20	460	0.044	<0.020	0.081	0.29	0.035
021999-B2-3C	2/19/99	B2	16.0	<1.0	47	<0.0050	<0.0050	<0.0050	<0.0050	0.050
021999-B4-1B	2/18/99	B4	3.5	3.9	13	0.067	0.0051	<0.0050	0.024	0.18
021999-B4-2B	2/18/99	B4	7.5	6.1	250	0.14	0.0059	0.024	0.051	0.0099
021999-B4-3C	2/18/99	B4	12.0	170	350	1.5	0.11	3.2	0.34	0.16
021999-B4-4C	2/18/99	B4	16.0	170	120	1.4	0.56	0.82	1.5	0.053
021999-B6-1C	2/19/99	B6	4.0	360	2000	2.2	0.38	1.7	2.4	0.095
021999-B6-2C	2/19/99	B6	11.0	340	650	2.6	1.3	10	9.8	0.80
021999-B6-3C	2/19/99	B6	16.0	24	7.2	1.1	0.047	0.20	0.18	<0.020
020899-B7-1C	2/08/99	B7	4.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
020899-B7-2C	2/08/99	B7	8.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
020899-B7-3C	2/08/99	B7	12.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
020899-B7-4C	2/08/99	B7	16.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
020899-B8-1C	2/08/99	B8	4.0	45	810	0.16	0.092	0.14	0.22	0.36
020899-B8-2B	2/08/99	B8	7.5	2.4	<1.0	0.024	<0.0050	<0.0050	<0.0050	<0.0050
020899-B8-3B	2/08/99	B8	11.5	67	95	0.49	0.064	0.20	<0.050	2.1
020899-B8-4B	2/08/99	B8	16.0	1200	890	5.6	2.6	5.1	1.1	0.70
020899-B9-1C	2/08/99	B9	4.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
020899-B9-2C	2/08/99	B9	8.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
020899-B9-3B	2/08/99	B9	11.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.012
020899-B9-4B	2/08/99	B9	15.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.011



TABLE 1 - Non-Waste Oil Tank Area

Sample I.D.	Date Sampled	Boring No.	Depth (feet)	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Mtbe (ppm)
Soil Sample Results										
021999-MW1-1C	2/18/99	MW1	4.0	3.9	82	0.058	0.010	0.074	0.16	0.018
021999-MW1-2C	2/18/99	MW1	8.0	<1.0	110	<0.0050	<0.0050	0.011	0.0086	0.071
021999-MW1-3C	2/18/99	MW1	12.0	3.1	540	<0.0050	0.0065	0.025	0.053	0.013
021999-MW1-4C	2/18/99	MW1	16.0	<1.0	2.6	<0.0050	<0.0050	<0.0050	<0.0050	0.016
021999-MW3-1C	2/18/99	MW3	4.0	160	2800	2.5	0.11	3.5	2.5	0.24
021999-MW3-2C	2/18/99	MW3	8.0	230	1100	5.5	0.14	5.5	0.56	0.25
021999-MW3-3C	2/18/99	MW3	12.0	120	250	2.7	0.092	3.9	0.73	0.37
021999-MW3-4C	2/18/99	MW3	16.0	43	15	1.1	0.084	0.49	0.35	0.92
Sample I.D.	Date Sampled	Boring No.	Depth (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Mtbe (ppb)
Groundwater Sample Results - Conc in ppb										
021999-W1	2/19/99	B1	--	<2500	27000	<25	<25	<25	<25	7800
021999-W2	2/19/99	B2	--	<2500	25000	<25	<25	<25	110	770
021999-W4	2/18/99	B4	--	28000	7700	7700	130	1300	300	<250
021999-W6	2/19/99	B6	--	56000	780	19000	390	2000	2300	<250
020899-W7	2/08/99	B7	--	<50	850	<0.50	<0.50	<0.50	<0.50	5.0
020899-W8	2/08/99	B8	--	43000	13000	3800	90	64	99	28000
020899-W9	2/08/99	B9	--	<50	<50	<0.50	<0.50	<0.50	<0.50	1100
020899-MW1	3/02/99	MW1	--	420	62000	2.7	<0.50	<0.50	1.8	270
020899-MW3	3/02/99	MW3	--	68000	840	24000	140	1000	470	3300

MW1
MW3



TABLE 2 - Waste Oil Tank Vicinity

Sample I.D.	Date Sampled	Boring No.	Depth (feet)	TOG (ppm)	Volatile Organics Compounds ^{C-C-C₄} ^{C-C-C-C} ^{MEK}								
					Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	O-Xylene (ppm)	P,M-Xylene (ppm)	Acetone (ppm)	2-Hexanone (ppm)	2-Butanone (ppm)	cis-1,2-Dichloroethene (ppm)

Soil Sample Results

021999-B3-1C	2/19/99	B3	4.0	79	0.022	ND	ND	ND	0.0052	0.20	ND	ND	ND
021999-B3-2C	2/19/99	B3	11.0	440	ND	ND	0.0052	ND	ND	0.19	0.021	ND	ND
021999-B3-3B	2/19/99	B3	15.5	167	ND	ND	0.33	ND	0.026	0.20	0.48	ND	ND
021999-MW2-1C	2/19/99	MW2	4.0	66	ND	ND	ND	ND	ND	0.23	ND	ND	ND
021999-MW2-2B	2/19/99	MW2	10.5	63	ND	ND	ND	ND	ND	0.098	ND	ND	ND
021999-MW2-3B	2/19/99	MW2	15.5	157	ND	ND	0.17	ND	ND	0.25	0.41	0.027	ND
021999-MW4-1C	2/19/99	MW4	4.0	81	ND	ND	ND	ND	ND	0.097	ND	ND	ND
021999-MW4-2C	2/19/99	MW4	11.0	70	ND	ND	ND	ND	ND	ND	ND	ND	ND
021999-MW4-3C	2/19/99	MW4	16.0	63	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - Non-Detectable Concentration (Below Laboratory Detection Limits)

Sample I.D.	Date Sampled	Boring No.	Depth (feet)	TOG (ppb)	Volatile Organics Compounds								
					Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	O-Xylene (ppb)	P,M-Xylene (ppb)	Acetone (ppb)	2-Hexanone (ppb)	2-Butanone (ppb)	cis-1,2-Dichloroethene (ppb)

Groundwater Sample Results

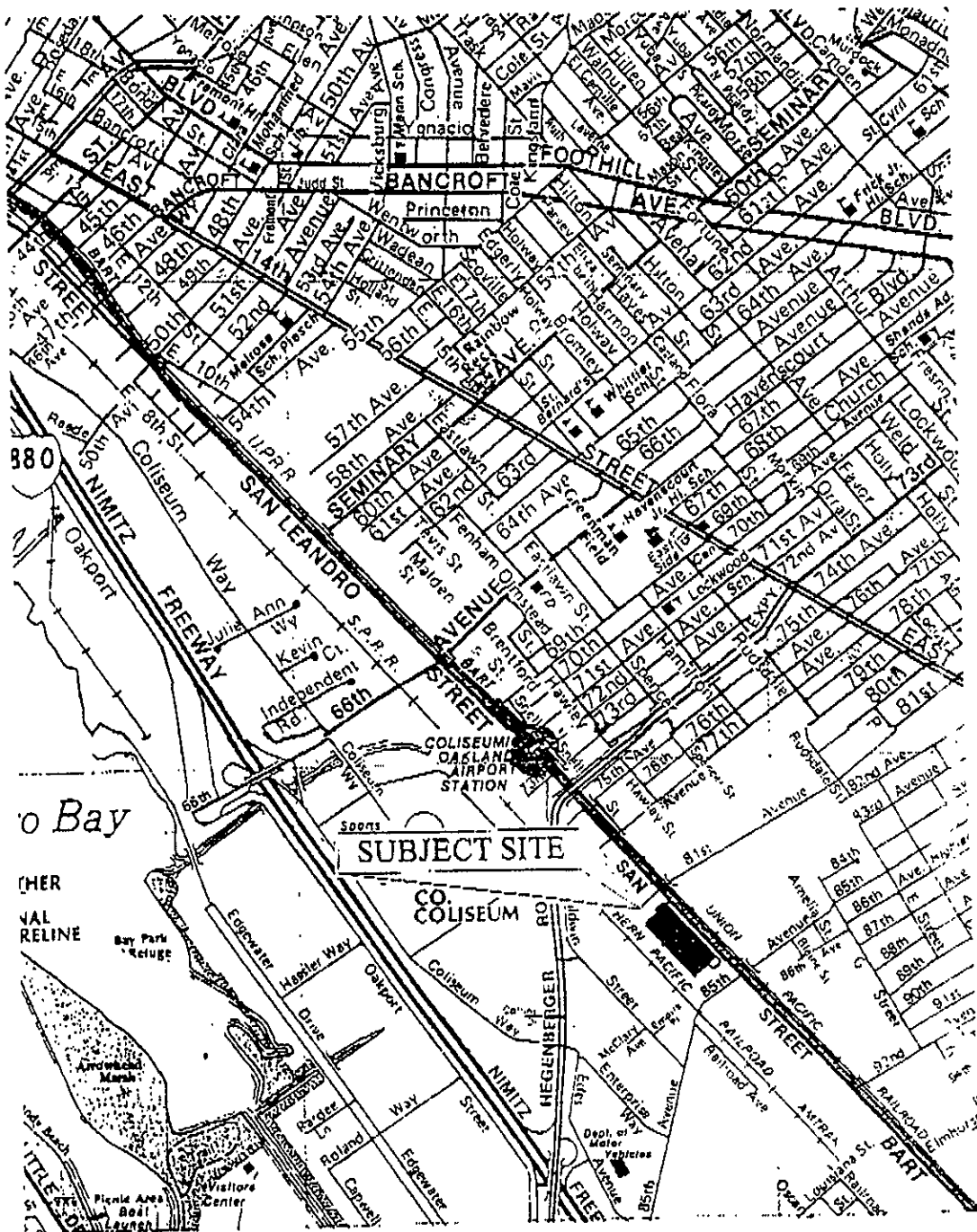
021999-W3	2/19/99	B3	--	25	38	8.2	390	4.6	47	110	ND	ND	ND
030299-MW2	3/02/99	MW2	--	2.6	4.8	ND	7.5	ND	ND	ND	ND	ND	0.99
030299-MW4	3/02/99	MW4	--	1.1	0.51	ND	ND	ND	ND	ND	ND	ND	ND

ND - Non-Detectable Concentration (Below Laboratory Detection Limits)

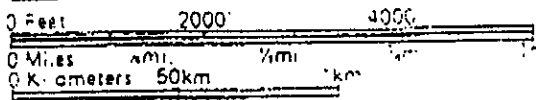
MW2
MW4

GW





SCALE:



OAKLAND TRUCK STOP
 8255 SAN LEANDRO STREET
 OAKLAND, CALIFORNIA

PENN ENVIRONMENTAL

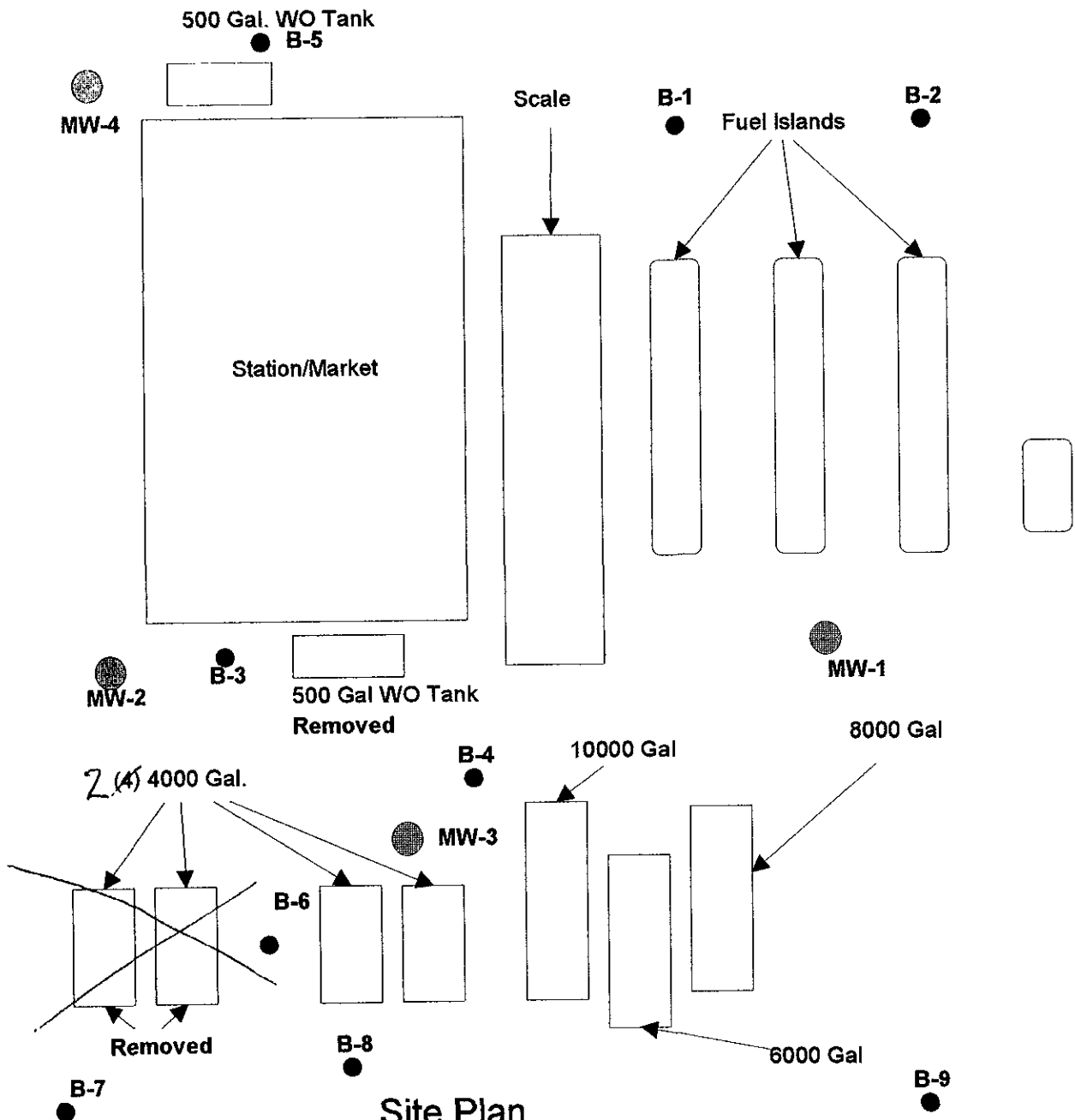
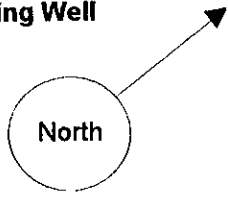
PROJECT NO: PE99-2487
 MAY 1999

FIGURE 1
 SITE VICINITY MAP

FIGURE 2

● - Boring Location

● - Monitoring Well



Site Plan

8255 San Leandro St., Oakland CA



APPENDIX A



Logged by: SCC Date: 2/19/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: B1

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Qu - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1	SC	6	8-inch concrete slab					
2			BLACK CLAYEY GRAVEL WITH SAND, abundant oil (FILL)	GC				
3			DARK GRAY SILTY CLAY WITH SAND, moist, medium stiff to stiff, hydrocarbon odor (FILL)	CL				
4			GREEN-GRAY CLAYEY COARSE SAND WITH GRAVEL wet, loose, hydrocarbon odor (FILL)	SC				
5	SC	8	DARK GRAY CLAY, high plasticity, moist, stiff (NATIVE SOIL)	CH				
6								
7								
8	SC	4	GRAY CLAY, iron-oxide staining, high plasticity, moist, stiff to very stiff, hydrocarbon odor	CH				
9								
10	SC	4	GRAY FINE TO MEDIUM SAND WITH SILT, wet, very loose to loose, clay seams	SP-SM				
11								
12								
13								
14								
15								
16								
17			Boring terminated at a depth of 16.5 ft. Groudwater level measured 4.6 feet after drilling operations.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No. 3

Robert Y. Chew Geotechnical, Inc.

Logged by: SCC Date: 2/19/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: B2

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q _u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1	SC	9	6" Asphaltic Concrete over 8" Baserock					
2			DARK GREENISH GRAY CLAYEY FINE TO COARSE SAND WITH GRAVEL, moist, loose, oily (FILL)	SC				
3	SC	4	DARK GRAY CLAY, high plasticity, moist, stiff (NATIVE SOIL)	CH				
4								
5								
6	SC	4	GRAY CLAY, iron-oxide staining, high plasticity, moist, stiff, hydrocarbon odor	CH				
7								
8	SC	5	GRAY SILTY CLAY WITH FINE SAND, low plasticity, moist, stiff, hydrocarbon odor	CL				
9								
10								
11			Boring terminated at a depth of 16.5 ft. Groundwater level measured 5.5 feet after drilling operations.					
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
4

Robert Y. Chew
Geotechnical, Inc.

Logged by: SCC Date: 2/19/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: B3

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q _u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1	SC	8	6" Asphaltic Concrete over 6" Baserock					
2			DARK GRAY CLAY, high plasticity, moist, stiff to very stiff (NATIVE SOIL)	CH				
3								
4	SC	5	GRAY SILTY CLAY, high plasticity, moist, stiff, hydrocarbon odor	CH				
5								
6								
7	SC	12	GRAY SANDY CLAY, fine sand, low plasticity, moist, stiff	CL				
8			clayey fine sand seams					
9								
10			Boring terminated at a depth of 16.5 ft. Groundwater level was not measured.					
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
5

Robert Y. Chew
Geotechnical, Inc.

PROJECT OAKLAND TRUCK STOP
 NAME: 8255 San Leandro Street, Oakland, Ca.

PROJECT
 NUMBER: 98042-A670F5

Logged by: SCC Date: 2/18/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: B4

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q_u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1			4" Asphaltic Concrete over 6" Baserock					
2			GREENISH GRAY CLAYEY FINE TO COARSE SAND, slightly moist, loose (FILL)	SC				
3								
4	SC	8	DARK GRAY CLAY, high plasticity, moist, medium stiff to stiff (NATIVE SOIL)	CH				
5								
6								
7								
8	SC	10	hydrocarbon odor					
9								
10								
11								
12	SC	6	OLIVE-GRAY SILTY CLAY, trace fine sand, high plasticity, moist, stiff	CH				
13								
14								
15			GRAY CLAY, trace fine sand, high plasticity, moist, stiff	CH				
16	SC	6	GRAY CLAYEY FINE SAND, wet, loose	SC				
17			Boring terminated at a depth of 16.5 feet. Groundwater level measured at 4.5 feet after drilling operations.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
6

Robert Y. Chew
Geotechnical, Inc.

PROJECT OAKLAND TRUCK STOP
NAME: 8255 San Leandro Street, Oakland, Ca.

PROJECT
NUMBER: 98042-A670F5

Logged by: **SCC** Date: **2/19/99** Equipment: **Truck-mounted rig; 8-inch hollow stem flight auger** Log of: **B5**

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q _u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1			6" Asphaltic Concrete					
2			REDDISH BROWN GRAVEL WITH SILT AND SAND, moist (FILL)	GP- GM				
3								
4			Boring terminated at a depth of 3.0 ft. Drilling encountered an underground obstruction.					
5			Groundwater level was not measured.					
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
7

Robert Y. Chew
Geotechnical, Inc.

Logged by: SCC Date: 2/19/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: B6

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q_u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1	SC	7	6" Asphaltic Concrete over 6" Baserock					
2			DARK GRAY CLAY, high plasticity, moist, very stiff, hydrocarbon odor (NATIVE SOIL)	CH				
3	SC	7						
4								
5								
6								
7	SC	7	GRAY CLAY, iron-oxide stained, high plasticity, moist, stiff, hydrocarbon odor	CH				
8								
9								
10	SC	9	GRAY CLAYEY FINE SAND, wet, loose	SC				
11								
12			Boring terminated at a depth of 16.5 ft. Groundwater level measured 4.8 feet after drilling operations.					
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
8

Robert Y. Chew
Geotechnical, Inc.

Logged by: **SCC** Date: **2/8/99** Equipment: **Truck-mounted rig; 8-inch hollow stem flight auger** Log of: **B7**

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q_u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1	SC	4	6" Asphaltic Concrete over 4" Baserock					
2			BROWN SILTY CLAY, abundant fibrous material, low plasticity, moist (FILL)	CL				
3			BROWN SILTY CLAY, medium to high plasticity, moist, medium stiff (NATIVE SOIL)	CL/ CH				
4	SC	12						
5								
6			MOTTLED BROWN AND GRAY CLAY, white nodules, high plasticity, moist, stiff to very stiff	CH				
7	SC	4						
8			GRAY CLAY, high plasticity, moist, medium stiff to stiff	CH				
9			MOTTLED BROWN AND GRAY SANDY CLAY, fine sand, medium plasticity, moist, stiff, hydrocarbon odor	CL				
10	SC	11						
11								
12			BROWN CLAYEY FINE SAND, wet, loose	SC				
13			Boring terminated at a depth of 16.5 ft. Groundwater level was not measured.					
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
9

Robert Y. Chew
Geotechnical, Inc.

PROJECT OAKLAND TRUCK STOP
 NAME: 8255 San Leandro Street, Oakland, Ca.

PROJECT
 NUMBER: 98042-A670F5

Logged by: SCC Date: 2/8/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: B8

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q_u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1			6" Asphaltic Concrete over 6" Baserock					
2			DARK GRAY CLAY, high plasticity, moist, stiff (NATIVE SOIL)	CH				
3								
4	SC	8						
5								
6								
7			grades very stiff					
8	SC	9						
9								
10								
11			OLIVE-GRAY SILTY CLAY, medium to high plasticity, moist, medium stiff, hydrocarbon odor	CL/ CH				
12	SC	7						
13								
14								
15			DARK GRAY TO GRAY CLAYEY FINE SAND, wet, medium dense	SC				
16	SC		sandy clay seams					
17			Boring terminated at a depth of 16.5 ft. Groundwater level measured 4.3 feet after drilling operations.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
10

Robert Y. Chew
 Geotechnical, Inc.

PROJECT OAKLAND TRUCK STOP
NAME: 8255 San Leandro Street, Oakland, Ca.

PROJECT
NUMBER: 98042-A670F5

Logged by: **SCC** Date: **2/8/99** Equipment: **Truck-mounted rig; 8-inch hollow stem flight auger** Log of: **B9**

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q _u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MISCELLANEOUS TEST RESULTS
1			6" Asphaltic Concrete over 6" Baserock					
2			DARK GRAY CLAY, high plasticity, moist, stiff to very stiff (NATIVE SOIL)	CH				
3								
4	SC	9						
5								
6								
7								
8	SC	21						
9								
10			OLIVE-GRAY CLAY, black specs, high plasticity, moist, very stiff	CH				
11								
12	SC	9						
13								
14								
15			GREENISH GRAY SILTY FINE SAND, wet, loose	SM				
16	SC							
17			Boring terminated at a depth of 16.5 ft. Groundwater level measured 6.0 feet after drilling operations.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
11

Robert Y. Chew
Geotechnical, Inc.

Logged by: SCC Date: 2/18/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: MW-1

Depth, ft.	Sampler Type	Blows/Foot 350 ft.-lbs.	MATERIAL DESCRIPTION	Unified Soil Classification	Q_u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MONITORING WELL DIAGRAM
1			8" Concrete over 6" Baserock					
2			DARK GRAY CLAY, high plasticity, moist, stiff (NATIVE SOIL)	CH				
3	SC	13	OLIVE-GRAY CLAYEY FINE TO COARSE SAND, moist, loose to medium dense	SC				
4								
5								
6								
7	SC	12	GRAY CLAY, trace coarse sand, high plasticity, moist, stiff, hydrocarbon odor	CH				
8								
9								
10								
11	SC	17	OLIVE-GRAY CLAY, high plasticity, moist, very stiff, hydrocarbon odor	CH				
12								
13								
14								
15								
16	SC	13	GRAY CLAYEY FINE SAND, wet, medium dense	SC				
17			Boring terminated at a depth of 16.5 feet. Groundwater level was not measured. 2" Ø Monitoring well installed.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
12

Robert Y. Chew
Geotechnical, Inc.

Logged by: SCC Date: 2/19/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: MW-2

Depth, ft.	Sampler Type	Sampling Resistance	MATERIAL DESCRIPTION	Unified Soil Classification	Q_u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MONITORING WELL DIAGRAM
1			11-inch Concrete over 7 inches of baserock					<p>TRAFFIC BOX</p> <p>2-Inch PVC CASING</p> <p>0.02-Inch SLOTTED PVC CASING</p> <p>NO. 3 SAND</p> <p>BENTONITE PELLETS</p> <p>CONCRETE</p>
2			DARK GRAY CLAY, high plasticity, moist, stiff to very stiff (NATIVE SOIL)	CH				
3								
4	SC	4						
5								
6								
7								
8								
9			OLIVE GRAY SILTY CLAY, trace fine sand, iron-oxide stains, high plasticity, moist, stiff	CH				
10								
11	SC	6						
12								
13			GRAY CLAY, high plasticity, moist, stiff	CH				
14								
15			GRAY CLAYEY FINE SAND, moist to wet, loose	SC				
16	SC	6						
17			Boring terminated at a depth of 16.5 feet. Groundwater level was not measured. 2" \emptyset Monitoring well installed.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No. 13

Robert Y. Chew Geotechnical, Inc.

Logged by: SCC Date: 2/18/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: MW-3

Depth, ft.	Sampler Type	Sampling Resistance	MATERIAL DESCRIPTION	Unified Soil Classification	Q _u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MONITORING WELL DIAGRAM
1			4-inch asphaltic concrete over 6 inches of baserock					<p>TRAFFIC BOX</p> <p>2-Inch PVC CASING</p> <p>0.02-inch SLOTTED PVC CASING</p> <p>BENTONITE PELLETS</p> <p>NO. 3 SAND</p> <p>CONCRETE</p>
2			DARK GRAY CLAY, high plasticity, moist, stiff to very stiff (NATIVE SOIL)	CH				
3								
4	SC	9						
5								
6								
7								
8	SC	30						
9								
10								
11								
12	SC	17	OLIVE GRAY CLAY, trace fine sand, high plasticity, moist, hydrocarbon odor, stiff	CH				
13								
14			GRAY CLAY, high plasticity, moist, stiff	CH				
15								
16	SC	37	GRAY CLAYEY FINE SAND, wet, hydrocarbon odor, medium dense	SC				
17			Boring terminated at depth of 16.5 feet. Groundwater level was not measured. 2" Ø Monitoring well installed.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No.
14

Robert Y. Chew
Geotechnical, Inc.

PROJECT OAKLAND TRUCK STOP
 NAME: 8255 San Leandro Street, Oakland, Ca.

PROJECT
 NUMBER: 98042-A670F5

Logged by: SCC Date: 2/19/99 Equipment: Truck-mounted rig; 8-inch hollow stem flight auger Log of: MW-4

Depth, ft.	Sampler Type	Sampling Resistance	MATERIAL DESCRIPTION	Unified Soil Classification	Q _u - t.s.f. Penetrometer	Dry Density p.c.f.	Moisture % of dry wt.	MONITORING WELL DIAGRAM
1			6-inch asphaltic concrete over 12 inches of baserock					<p>TRAFFIC BOX</p> <p>2-inch PVC CASING</p> <p>0.02-inch SLOTTED PVC CASING</p> <p>NO. 3 SAND</p> <p>BENTONITE PELLETS</p> <p>CONCRETE</p>
2			DARK GRAY CLAY, high plasticity, moist, very stiff (NATIVE SOIL)	CH				
3								
4	SC	11	trace decayed vegetation					
5								
6								
7								
8								
9			GRAY SILTY CLAY, trace fine sand, black specks, high plasticity, moist, stiff	CH				
10								
11	SC	5	Grades with fine sand seams					
12								
13								
14								
15			BROWN FINE TO MEDIUM SAND WITH SILT, wet, loose, clay seams	SP-SM				
16	SC	4						
17			Boring terminated at a depth of 16.5 feet. Groundwater level was not measured. 2" Ø Monitoring well installed.					
18								
19								
20								
21								
22								
23								
24								
25								

Stratification lines represent the approximate boundary between the engineer's description of material types. The actual transition may be gradual and may vary with location.

FIGURE No. 15

Robert Y. Chew Geotechnical, Inc.

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)

Field Identification		Group Symbols	Typical Names	Laboratory Classification Criteria		
Coarse-Grained Soils More than 50% of material is retained on the No. 200 sieve.	Gravels More than 50% coarse fraction retained on the No. 4 sieve	Clean Gravels < 5% Fines	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	CLASSIFICATION OF GRAVELS & SANDS WITH 5% TO 12% FINES REQUIRES DUAL SYMBOLS Gravel/Silty Gravel Gravel/Clayey Gravel Sand/Silty Sand Sand/Clayey Sand	
		Gravels with Fines > 12% Fines	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines		
		GM	Silty gravels, poorly graded gravel-sand-silt mixtures	Fines classify as ML or MH		If fines classify as CL-ML , use dual symbol GC/GM
		GC	Clayey gravels, poorly graded gravel-sand-clay mixtures	Fines classify as CL or CH		If fines classify as CL-ML , use dual symbol GC/GM
	Sands More than 50% coarse fraction passes the No. 4 sieve	Clean Sands < 5% Fines	SW	Well-graded sands, gravelly sands, little or no fines		$C_u = D_{60} + D_{10} \geq 4$ and $C_c = (D_{30})^2 - (D_{10} \times D_{60}) \geq 1 \text{ \& } \leq 3$
		SP	Poorly graded sands, gravelly sands, little or no fines	$C_u = D_{60} + D_{10} < 4$ and/or $C_c = (D_{30})^2 - (D_{10} \times D_{60}) < 1 \text{ \& } > 3$		
		SM	Silty sands, poorly graded sand-silt mixtures	Fines classify as ML or MH		If fines classify as CL-ML , use dual symbol SC/SM
		SC	Clayey sands, poorly graded sand-clay mixtures	Fines classify as CL or CH		If fines classify as CL-ML , use dual symbol SC/SM
		SW	Well-graded sands, gravelly sands, little or no fines	$C_u = D_{60} + D_{10} \geq 6$ and $C_c = (D_{30})^2 + (D_{10} \times D_{60}) \geq 1 \text{ \& } \leq 3$		
		SP	Poorly graded sands, gravelly sands, little or no fines	$C_u = D_{60} + D_{10} < 6$ and/or $C_c = (D_{30})^2 + (D_{10} \times D_{60}) < 1 \text{ \& } > 3$		

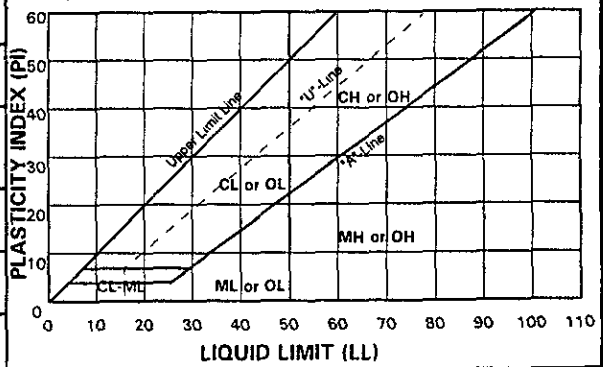
Identification Procedures on Percentage Passing the No. 40 Sieve

Fine-Grained Soils More than 50% of material passes the No. 200 sieve.	Silts & Clays Liquid Limit less than 50%	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly, sandy, and/or silty clays, lean clays
		OL	Organic silts, organic silty clays of low plasticity
	Silts & Clays Liquid Limit greater than 50%	MH	Inorganic silts, micaceous or diatomaceous fine sandy/-silty soil, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

PLASTICITY CHART

For Classification of Fine-Grained Soils and Fine-Grained Fraction of Coarse-Grained Soils

Equation of "A"-Line: $PI = 4 @ LL = 4 \text{ to } 25.5$, then $PI = 0.73 \times (LL - 20)$
 Equation of "U"-Line: $LL = 16 @ PI = 0 \text{ to } 7$, then $PI = 0.9 \times (LL - 8)$



KEY TO SOIL AND ROCK SAMPLER TYPES

- SC Standard California Sampler
- MC Modified California Sampler
- SPT Standard Penetration Test Sampler
- D Dames & Moore Type "D" Sampler
- P Dames & Moore Piston Sampler
- U Dames & Moore Type "U" Sampler
- UTW D & M Type "U" Sampler with Thin Wall Attachment
- PT Pitcher Tube Sampler
- MPT Modified Pitcher Tube Sampler
- ST Shelby Tube Sampler
- C Rock Core Sampler (Diameter Varies)
- BU Bulk Sample

KEY TO OTHER LOG SYMBOLS

- ▽ Depth at which Groundwater was Encountered During Drilling
- ▽ Depth at which Groundwater was Measured After Drilling
- PTV Pocket Torvane Test
- #200 % of Material Passing the No. 200 Sieve Test (ASTM D-1140)
- PSA Particle-Size Analysis (ASTM D-422 & D-1140)
- LL Liquid Limit of Sample (ASTM D-4318)
- PL Plastic Limit of Sample (ASTM D-4318)
- PI Plasticity Index of Sample (ASTM D-4318)
- Q_u Unconfined Compression Test (ASTM D-2166)
- TXUU Unconsolidated Undrained Compression Test (ASTM D-2850)
- C Consolidation Test (ASTM D-2435)
- FV Field Vane Shear Test (ASTM D-2573)

KEY TO SAMPLES, SAMPLE RECOVERY AND IN-SITU BOREHOLE TESTS

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> ■ Undisturbed Sample Recovered at Depth ⊠ Disturbed Sample Recovered at Depth □ No Sample Recovered at Depth ▣ SPT Sample Recovered at Depth | <ul style="list-style-type: none"> □ No SPT Sample Recovered at Depth I Length of Coring Run with Core Barrel Type Sampler at Depth ⊠ Field Vane Shear Test at Depth |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

UNIFIED SOIL CLASSIFICATION SYSTEM AND KEY TO BORING LOG

FIGURE No.16

ROBERT Y. CHEW
GEOTECHNICAL, INC.



Report Number : 13324

Date : 03/26/99

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

Subject : 12 Soil and 3 Water Samples
Project Name : Oakland Truck Stop
Project Number : 98042

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,

A handwritten signature in black ink, appearing to read "Joel Kiff", is written over the typed name. The signature is cursive and somewhat stylized.

Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-B9-1C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	02/16/99
aaa-Trifluorotoluene (Gasoline Surrogate)	80.1		% Recovery	M EPA 8015	02/16/99
1-Chlorooctadecane (Diesel Surrogate)	100		% Recovery	M EPA 8015	02/16/99

Sample : **020899-B9-2C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	104		% Recovery	EPA 8020	02/16/99
aaa-Trifluorotoluene (Gasoline Surrogate)	81.1		% Recovery	M EPA 8015	02/16/99
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	02/16/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-B9-3B**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Methyl-t-butyl ether	0.012	0.0050	mg/Kg	EPA 8020	02/16/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	104		% Recovery	EPA 8020	02/16/99
aaa-Trifluorotoluene (Gasoline Surrogate)	80.2		% Recovery	M EPA 8015	02/16/99
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	02/16/99

Sample : **020899-B9-4B**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/19/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/19/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/19/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/19/99
Methyl-t-butyl ether	0.011	0.0050	mg/Kg	EPA 8020	02/19/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/19/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	107		% Recovery	EPA 8020	02/19/99
aaa-Trifluorotoluene (Gasoline Surrogate)	79.8		% Recovery	M EPA 8015	02/19/99
1-Chlorooctadecane (Diesel Surrogate)	108		% Recovery	M EPA 8015	02/16/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-B8-1C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.16	0.020	mg/Kg	EPA 8020	02/19/99
Toluene	0.092	0.020	mg/Kg	EPA 8020	02/19/99
Ethylbenzene	0.14	0.020	mg/Kg	EPA 8020	02/19/99
Total Xylenes	0.22	0.020	mg/Kg	EPA 8020	02/19/99
Methyl-t-butyl ether	0.36	0.020	mg/Kg	EPA 8020	02/19/99
TPH as Gasoline	45	5.0	mg/Kg	M EPA 8015	02/19/99
TPH as Diesel	810	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	02/19/99
aaa-Trifluorotoluene (Gasoline Surrogate)	101		% Recovery	M EPA 8015	02/19/99
1-Chlorooctadecane (Diesel Surrogate)	127		% Recovery	M EPA 8015	02/17/99

Sample : **020899-B8-2B**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.024	0.0050	mg/Kg	EPA 8020	02/16/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
TPH as Gasoline	2.4	1.0	mg/Kg	M EPA 8015	02/16/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	98.6		% Recovery	EPA 8020	02/16/99
aaa-Trifluorotoluene (Gasoline Surrogate)	116		% Recovery	M EPA 8015	02/16/99
1-Chlorooctadecane (Diesel Surrogate)	62.9		% Recovery	M EPA 8015	02/17/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-B8-3B**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.49	0.050	mg/Kg	EPA 8020	02/17/99
Toluene	0.064	0.050	mg/Kg	EPA 8020	02/17/99
Ethylbenzene	0.20	0.050	mg/Kg	EPA 8020	02/17/99
Total Xylenes	< 0.050	0.050	mg/Kg	EPA 8020	02/17/99
Methyl-t-butyl ether	2.1	0.050	mg/Kg	EPA 8020	02/17/99
TPH as Gasoline	67	5.0	mg/Kg	M EPA 8015	02/17/99
TPH as Diesel	95	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	104		% Recovery	EPA 8020	02/17/99
aaa-Trifluorotoluene (Gasoline Surrogate)	99.7		% Recovery	M EPA 8015	02/17/99
1-Chlorooctadecane (Diesel Surrogate)	115		% Recovery	M EPA 8015	02/17/99

Sample : **020899-B7-1C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	02/16/99
aaa-Trifluorotoluene (Gasoline Surrogate)	81.0		% Recovery	M EPA 8015	02/16/99
1-Chlorooctadecane (Diesel Surrogate)	116		% Recovery	M EPA 8015	02/17/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-B7-2C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/16/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/16/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	106		% Recovery	EPA 8020	02/16/99
aaa-Trifluorotoluene (Gasoline Surrogate)	81.6		% Recovery	M EPA 8015	02/16/99
1-Chlorooctadecane (Diesel Surrogate)	107		% Recovery	M EPA 8015	02/17/99

Sample : **020899-B7-3C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	02/17/99
aaa-Trifluorotoluene (Gasoline Surrogate)	81.3		% Recovery	M EPA 8015	02/17/99
1-Chlorooctadecane (Diesel Surrogate)	110		% Recovery	M EPA 8015	02/17/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-B7-4C**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8020	02/17/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	104		% Recovery	EPA 8020	02/17/99
aaa-Trifluorotoluene (Gasoline Surrogate)	81.6		% Recovery	M EPA 8015	02/17/99
1-Chlorooctadecane (Diesel Surrogate)	112		% Recovery	M EPA 8015	02/17/99

Sample : **020899-B8-4B**

Matrix : Soil

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.6	0.20	mg/Kg	EPA 8020	02/19/99
Toluene	2.6	0.20	mg/Kg	EPA 8020	02/19/99
Ethylbenzene	5.1	0.20	mg/Kg	EPA 8020	02/19/99
Total Xylenes	1.1	0.20	mg/Kg	EPA 8020	02/19/99
Methyl-t-butyl ether	0.70	0.20	mg/Kg	EPA 8020	02/19/99
TPH as Gasoline	1200	20	mg/Kg	M EPA 8015	02/19/99
TPH as Diesel	890	1.0	mg/Kg	M EPA 8015	02/17/99
aaa-Trifluorotoluene (8020 Surrogate)	118		% Recovery	EPA 8020	02/19/99
aaa-Trifluorotoluene (Gasoline Surrogate)	105		% Recovery	M EPA 8015	02/19/99
1-Chlorooctadecane (Diesel Surrogate)	144		% Recovery	M EPA 8015	02/17/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-W7**

Matrix : Water

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Toluene	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Total Xylenes	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Methyl-t-butyl ether	< 5.0	5.0	ug/L	EPA 8020	02/17/99
TPH as Gasoline	< 50	50	ug/L	M EPA 8015	02/17/99
TPH as Diesel	850	50	ug/L	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	108		% Recovery	EPA 8020	02/17/99
aaa-Trifluorotoluene (Gasoline Surrogate)	84.6		% Recovery	M EPA 8015	02/17/99

Sample : **020899-W8**

Matrix : Water

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3800	50	ug/L	EPA 8020	02/19/99
Toluene	90	50	ug/L	EPA 8020	02/19/99
Ethylbenzene	64	50	ug/L	EPA 8020	02/19/99
Total Xylenes	99	50	ug/L	EPA 8020	02/19/99
Methyl-t-butyl ether	28000	500	ug/L	EPA 8020	02/19/99
TPH as Gasoline	43000	5000	ug/L	M EPA 8015	02/19/99
TPH as Diesel	13000	50	ug/L	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	109		% Recovery	EPA 8020	02/19/99
aaa-Trifluorotoluene (Gasoline Surrogate)	90.1		% Recovery	M EPA 8015	02/19/99

Approved By:  Joel Kiff



Report Number : 13324

Date : 03/26/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **020899-W9**

Matrix : Water

Sample Date :02/08/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Toluene	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Total Xylenes	< 0.50	0.50	ug/L	EPA 8020	02/17/99
Methyl-t-butyl ether	1100	50	ug/L	EPA 8020	02/20/99
TPH as Gasoline	< 50	50	ug/L	M EPA 8015	02/17/99
TPH as Diesel	< 50	50	ug/L	M EPA 8015	02/16/99
aaa-Trifluorotoluene (8020 Surrogate)	107		% Recovery	EPA 8020	02/17/99
aaa-Trifluorotoluene (Gasoline Surrogate)	85.1		% Recovery	M EPA 8015	02/17/99

Approved By:  Joel Kiff



720 Olive Drive, Suite 1D
Davis, CA 95616

Lab: 916.297.4800
Fax: 916.297.4808

15324

Page 1 of 2

Project Manager: MR. ERIC J. ZAMB
 Company/Address: PENN ENVIRONMENTAL
 Project Number: 98042
 Project Location: 8255 SAN LEANDRO ST., OAKLAND

Phone No.: (707) 421-1595
 FAX No.: (707) 425-0257
 Project Name: OAKLAND TRUCK STOP
 Sampler Signature: [Signature]

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container (Type/Amount)				Method Preserved				Matrix		Analysis Request										TAT 12 hr/24 hr/48 hr/72 hr/1 wk/2 wk	For Lab Use Only				
	Date	Time	VOA	SLEEVE	1L GLASS	500 ml	HCl	HNO ₃	ICE	NONE	WATER/SOIL	BTEX (8020)	BTEX/TPH Gas/MTBE (8020/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	EPA8010	EPA 8080 - Pesticides	EPA 8080 - PCBs	EPA 8240	EPA 8270	CAM - 17 Metals	Lead (7421/239.2)			Cd, Cr, Pb, Zn, Ni	WE.T. (X)	TOTAL (X)	
020899-89-1C	2/8/99	1219		1				✓		S		✓	✓														2w	-01
020899-89-2C		1229		1				✓		S		✓	✓														2w	-02
020899-89-3B		1239		1				✓		S		✓	✓														2w	-03
020899-89-4B		1255		1				✓		S		✓	✓														2w	-04
020899-88-1C		0950		1				✓		S		✓	✓														2w	-05
020899-88-2B		1002		1				✓		S		✓	✓														2w	-06
020899-88-3B		1015		1				✓		S		✓	✓														2w	-07
020899-87-1C		1055		1				✓		S		✓	✓														2w	-08
020899-87-2C		1105		1				✓		S		✓	✓														2w	-09
020899-87-3C		1116		1				✓		S		✓	✓														2w	-10

Relinquished by: [Signature] Date: 2/10/99 Time: 1:30 Received by: _____ Remarks: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Email address: _____

Relinquished by: _____ Date: 2/10/99 Time: 1:30 Received by Laboratory: Mary Corbet Bill to: _____



720 Olive Drive, Suite D
Davis, CA 95616

Lab: 916.297.4800
Fax: 916.297.4808

13324

Project Manager: MR. ERIC ZAMB
Company/Address: PENN ENVIRONMENTAL
Project Number: 98042 PO No: _____
Project Location: 8255 SAN LEANDRO ST. OAKLAND
Phone No.: (707) 421-1595
FAX No.: (707) 425-0257
Project Name: OAKLAND TRUCK STOP
Sampler Signature: [Signature]

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container (Type/Amount)				Method Preserved				Matrix	Analysis Request										TAT 12 hr/24 hr/48 hr/72 hr/1 wk/2 wk	For Lab Use Only					
	Date	Time	VOA	SLEEVE	1L GLASS	500 ml	HCl	HNO ₃	ICE	NONE	WATER/SOIL	BTEX (8020)	BTEX/TPH Gas/MTBE (8020/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	EPA8010	EPA 8080 - Pesticides	EPA 8080 - PCBs	EPA 8240	EPA 8270	CAM - 17 Metals			Lead (7421/239.2)	Cd, Cr, Pb, Zn, Ni	WE.T. (X)	TOTAL (X)	
020899-B7-4B C	2/8/99	1128		1					✓		S	✓	✓														2w	-11
020899-B8-4B		1030		1					✓		S	✓	✓														2w	-12
020899-W7		1140		4					✓		E	✓	✓														2w	-13
020899-W8		1030		4					✓		E	✓	✓														2w	-14
020899-W9		1300		4					✓		E	✓	✓														2w	-15

Relinquished by: [Signature] Date: 2/10/99 Time: 1:50 Received by: _____ Remarks: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Email address: _____
 .doc .xls .txt other _____
 Relinquished by: _____ Date: 2/10/99 Time: 1:30 Received by Laboratory: Mary Corbet Bill to: _____



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B1-1C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.062	0.050	mg/Kg	EPA 8020	03/02/99
Toluene	0.057	0.050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.14	0.050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.61	0.050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.23	0.050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	24	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	1600	20	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	103		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	80.0		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	03/03/99

Sample : **021999-B1-2C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.040	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	0.047	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.16	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.64	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.71	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	21	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	330	10	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	83.5		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	86.6		% Recovery	M EPA 8015	03/03/99

Approved By:  Joe Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B1-3C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/01/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/01/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/01/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	03/01/99
Methyl-t-butyl ether	0.70	0.0050	mg/Kg	EPA 8020	03/01/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	03/01/99
TPH as Diesel	9.9	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	104		% Recovery	EPA 8020	03/01/99
aaa-Trifluorotoluene (Gasoline Surrogate)	78.8		% Recovery	M EPA 8015	03/01/99
1-Chlorooctadecane (Diesel Surrogate)	97.9		% Recovery	M EPA 8015	03/03/99

Sample : **021999-B2-1C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.33	0.050	mg/Kg	EPA 8020	03/02/99
Toluene	0.074	0.050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.29	0.050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.34	0.050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	3.9	0.050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	67	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	660	50	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	99.7		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B2-2C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.044	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	< 0.020	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.081	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.29	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.035	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	20	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	460	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	87.1		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	107		% Recovery	M EPA 8015	03/03/99

Sample : **021999-B2-3C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.050	0.0050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	47	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	104		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	88.9		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	93.3		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

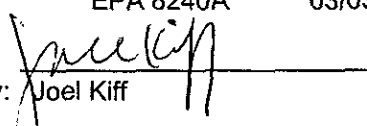
Project Number : **98042**

Sample : **021999-B3-1C**

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	03/03/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Benzene	0.022	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
P,M-Xylene	0.0052	0.0050	mg/Kg	EPA 8240A	03/03/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **021999-B3-1C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	0.20	0.050	mg/Kg	EPA 8240A	03/03/99
2-Butanone	< 0.050	0.050	mg/Kg	EPA 8240A	03/03/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
2-Hexanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8240A	03/03/99
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8240A	03/03/99
Toluene - d8 (Surr)	100		% Recovery	EPA 8240A	03/03/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8240A	03/03/99

Sample : **021999-B3-2C**

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	03/03/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B3-2C**

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	03/03/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Ethylbenzene	0.0052	0.0050	mg/Kg	EPA 8240A	03/03/99
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Acetone	0.19	0.020	mg/Kg	EPA 8240A	03/03/99
2-Butanone	< 0.020	0.020	mg/Kg	EPA 8240A	03/03/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
2-Hexanone	0.021	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromofluoromethane (Surr)	98.3		% Recovery	EPA 8240A	03/03/99
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8240A	03/03/99
Toluene - d8 (Surr)	101		% Recovery	EPA 8240A	03/03/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8240A	03/03/99

Approved By:  _____
Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B3-3B**

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	03/03/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Ethylbenzene	0.33	0.0050	mg/Kg	EPA 8240A	03/03/99
P,M-Xylene	0.026	0.0050	mg/Kg	EPA 8240A	03/03/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B3-3B**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	0.20	0.020	mg/Kg	EPA 8240A	03/03/99
2-Butanone	< 0.020	0.020	mg/Kg	EPA 8240A	03/03/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
2-Hexanone	0.48	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromofluoromethane (Surr)	71.4		% Recovery	EPA 8240A	03/03/99
1,2-Dichloroethane-d4 (Surr)	69.7		% Recovery	EPA 8240A	03/03/99
Toluene - d8 (Surr)	89.3		% Recovery	EPA 8240A	03/03/99
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8240A	03/03/99

Sample : **021999-B4-1B**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.067	0.0050	mg/Kg	EPA 8020	03/01/99
Toluene	0.0051	0.0050	mg/Kg	EPA 8020	03/01/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/01/99
Total Xylenes	0.024	0.0050	mg/Kg	EPA 8020	03/01/99
Methyl-t-butyl ether	0.18	0.0050	mg/Kg	EPA 8020	03/01/99
TPH as Gasoline	3.9	1.0	mg/Kg	M EPA 8015	03/01/99
TPH as Diesel	13	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	112		% Recovery	EPA 8020	03/01/99
aaa-Trifluorotoluene (Gasoline Surrogate)	93.8		% Recovery	M EPA 8015	03/01/99
1-Chlorooctadecane (Diesel Surrogate)	97.2		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B4-2B**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.14	0.0050	mg/Kg	EPA 8020	03/01/99
Toluene	0.0059	0.0050	mg/Kg	EPA 8020	03/01/99
Ethylbenzene	0.024	0.0050	mg/Kg	EPA 8020	03/01/99
Total Xylenes	0.051	0.0050	mg/Kg	EPA 8020	03/01/99
Methyl-t-butyl ether	0.0099	0.0050	mg/Kg	EPA 8020	03/01/99
TPH as Gasoline	6.1	1.0	mg/Kg	M EPA 8015	03/01/99
TPH as Diesel	250	1.0	mg/Kg	M EPA 8015	03/02/99
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	03/01/99
aaa-Trifluorotoluene (Gasoline Surrogate)	120		% Recovery	M EPA 8015	03/01/99
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	03/02/99

Sample : **021999-B4-3C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.5	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	0.11	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	3.2	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.34	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.16	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	170	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	350	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	89.0		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	137		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	119		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B4-4C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.4	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	0.56	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.82	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	1.5	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.053	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	170	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	120	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	118		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	40.4		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	104		% Recovery	M EPA 8015	03/03/99

Sample : **021999-B6-1C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.2	0.050	mg/Kg	EPA 8020	03/02/99
Toluene	0.38	0.050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	1.7	0.050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	2.4	0.050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.095	0.050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	360	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	2000	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	134		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	150		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	160		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-B6-2C**

Matrix : Soil

Sample Date :02/19/99


Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.6	0.050	mg/Kg	EPA 8020	03/02/99
Toluene	1.3	0.050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	10	0.050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	9.8	0.050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.80	0.050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	340	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	650	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	126		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	116		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	134		% Recovery	M EPA 8015	03/03/99

Sample : **021999-B6-3C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.1	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	0.047	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.20	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.18	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	< 0.020	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	24	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	7.2	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	106		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	100		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	99.2		% Recovery	M EPA 8015	03/03/99

Approved By:  _____
Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW1-1C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.058	0.0050	mg/Kg	EPA 8020	03/02/99
Toluene	0.010	0.0050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.074	0.0050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.16	0.0050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.018	0.0050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	3.9	1.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	82	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	108		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	82.3		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	03/03/99

Sample : **021999-MW1-2C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.011	0.0050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.0086	0.0050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.071	0.0050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	110	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	107		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	106		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	104		% Recovery	M EPA 8015	03/03/99

Approved By:  _____
Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW1-3C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Toluene	0.0065	0.0050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.025	0.0050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.053	0.0050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.013	0.0050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	3.1	1.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	540	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	103		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	80.7		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	120		% Recovery	M EPA 8015	03/03/99

Sample : **021999-MW1-4C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.016	0.0050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	2.6	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	107		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	77.5		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	104		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW2-1C**

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

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW2-1C**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	0.23	0.020	mg/Kg	EPA 8240A	03/03/99
2-Butanone	< 0.020	0.020	mg/Kg	EPA 8240A	03/03/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
2-Hexanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromofluoromethane (Surr)	99.2		% Recovery	EPA 8240A	03/03/99
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8240A	03/03/99
Toluene - d8 (Surr)	100		% Recovery	EPA 8240A	03/03/99
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8240A	03/03/99

Sample : **021999-MW2-2B**

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	03/02/99
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-Dichloroethene	< 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
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

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW2-2B**

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	03/02/99
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	0.098	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)	97.8		% Recovery	EPA 8240A	03/02/99
1,2-Dichloroethane-d4 (Surr)	95.9		% Recovery	EPA 8240A	03/02/99
Toluene - d8 (Surr)	102		% Recovery	EPA 8240A	03/02/99
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8240A	03/02/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW2-3B**

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	03/03/99
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromomethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Ethylbenzene	0.17	0.0050	mg/Kg	EPA 8240A	03/03/99
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW2-3B**

Matrix : Soil

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	0.25	0.020	mg/Kg	EPA 8240A	03/03/99
2-Butanone	0.027	0.020	mg/Kg	EPA 8240A	03/03/99
4-Methyl-2-Pentanone	< 0.0050	0.0050	mg/Kg	EPA 8240A	03/03/99
2-Hexanone	0.41	0.0050	mg/Kg	EPA 8240A	03/03/99
Dibromofluoromethane (Surr)	73.4		% Recovery	EPA 8240A	03/03/99
1,2-Dichloroethane-d4 (Surr)	71.5		% Recovery	EPA 8240A	03/03/99
Toluene - d8 (Surr)	90.5		% Recovery	EPA 8240A	03/03/99
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8240A	03/03/99

Sample : **021999-MW3-1C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.5	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	0.11	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	3.5	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	2.5	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.24	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	160	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	2800	1.0	mg/Kg	M EPA 8015	03/03/99
aaa-Trifluorotoluene (8020 Surrogate)	98.8		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	134		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	Interference		% Recovery	M EPA 8015	03/03/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW3-2C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.5	0.020	mg/Kg	EPA 8020	03/02/99
Toluene	0.14	0.020	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	5.5	0.020	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.56	0.020	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.25	0.020	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	230	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	1100	10	mg/Kg	M EPA 8015	03/04/99
aaa-Trifluorotoluene (8020 Surrogate)	108		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	42.8		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	147		% Recovery	M EPA 8015	03/04/99

Sample : **021999-MW3-3C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.7	0.050	mg/Kg	EPA 8020	03/02/99
Toluene	0.092	0.050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	3.9	0.050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.73	0.050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.37	0.050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	120	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	250	1.0	mg/Kg	M EPA 8015	03/04/99
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	118		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	107		% Recovery	M EPA 8015	03/04/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/16/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-MW3-4C**

Matrix : Soil

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.1	0.050	mg/Kg	EPA 8020	03/02/99
Toluene	0.084	0.050	mg/Kg	EPA 8020	03/02/99
Ethylbenzene	0.49	0.050	mg/Kg	EPA 8020	03/02/99
Total Xylenes	0.35	0.050	mg/Kg	EPA 8020	03/02/99
Methyl-t-butyl ether	0.92	0.050	mg/Kg	EPA 8020	03/02/99
TPH as Gasoline	43	5.0	mg/Kg	M EPA 8015	03/02/99
TPH as Diesel	15	1.0	mg/Kg	M EPA 8015	03/04/99
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	03/02/99
aaa-Trifluorotoluene (Gasoline Surrogate)	94.1		% Recovery	M EPA 8015	03/02/99
1-Chlorooctadecane (Diesel Surrogate)	110		% Recovery	M EPA 8015	03/04/99

Sample : **021999-MW4-1C**

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	03/02/99
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-Dichloroethene	< 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



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-Dichloroethane-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



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



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



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

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-W1**

Matrix : Water

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 25	25	ug/L	EPA 8020	03/05/99
Toluene	< 25	25	ug/L	EPA 8020	03/05/99
Ethylbenzene	< 25	25	ug/L	EPA 8020	03/05/99
Total Xylenes	< 25	25	ug/L	EPA 8020	03/05/99
Methyl-t-butyl ether	7800	250	ug/L	EPA 8020	03/05/99
TPH as Gasoline	< 2500	2500	ug/L	M EPA 8015	03/05/99
TPH as Diesel	27000	50	ug/L	M EPA 8015	02/26/99
aaa-Trifluorotoluene (8020 Surrogate)	92.4		% Recovery	EPA 8020	03/05/99
aaa-Trifluorotoluene (Gasoline Surrogate)	99.9		% Recovery	M EPA 8015	03/05/99

Sample : **021999-W2**

Matrix : Water

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 25	25	ug/L	EPA 8020	03/06/99
Toluene	< 25	25	ug/L	EPA 8020	03/06/99
Ethylbenzene	< 25	25	ug/L	EPA 8020	03/06/99
Total Xylenes	110	25	ug/L	EPA 8020	03/06/99
Methyl-t-butyl ether	770	250	ug/L	EPA 8020	03/06/99
TPH as Gasoline	< 2500	2500	ug/L	M EPA 8015	03/06/99
TPH as Diesel	25000	50	ug/L	M EPA 8015	02/26/99
aaa-Trifluorotoluene (8020 Surrogate)	93.0		% Recovery	EPA 8020	03/06/99
aaa-Trifluorotoluene (Gasoline Surrogate)	99.5		% Recovery	M EPA 8015	03/06/99

Approved By:  _____
 Approved By: Joel Kiff

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **021999-W3**

Matrix : Water

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Chloromethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Vinyl Chloride	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Bromomethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Chloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Trichlorofluoromethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,1-Dichloroethene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Methylene Chloride	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,1-Dichloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
cis-1,2-Dichloroethene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Chloroform	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,1,1-Trichloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Carbon Tetrachloride	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Benzene	38	2.0	ug/L	EPA 8240A	03/02/99
Trichloroethene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,2-Dichloropropane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Bromodichloromethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
cis-1,3-Dichloropropene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Toluene	8.2	2.0	ug/L	EPA 8240A	03/02/99
trans-1,3-Dichloropropene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,1,2-Trichloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Tetrachloroethene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Dibromochloromethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Chlorobenzene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,1,1,2-Tetrachloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Ethylbenzene	390	2.0	ug/L	EPA 8240A	03/02/99
P,M-Xylene	47	2.0	ug/L	EPA 8240A	03/02/99
O-Xylene	4.6	2.0	ug/L	EPA 8240A	03/02/99
Styrene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
Bromoform	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,1,2,2-Tetrachloroethane	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,3-Dichlorobenzene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,4-Dichlorobenzene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99
1,2-Dichlorobenzene	< 2.0	2.0	ug/L	EPA 8240A	03/02/99

Approved By:  Joel Kiff



Report Number : 13409

Date : 03/17/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **021999-W3**

Matrix : Water

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Acetone	110	20	ug/L	EPA 8240A	03/02/99
2-Butanone	< 20	20	ug/L	EPA 8240A	03/02/99
4-Methyl-2-Pentanone	< 20	20	ug/L	EPA 8240A	03/02/99
2-Hexanone	< 20	20	ug/L	EPA 8240A	03/02/99
Dibromofluoromethane (Surr)	89.5		% Recovery	EPA 8240A	03/02/99
1,2-Dichloroethane-d4 (Surr)	89.4		% Recovery	EPA 8240A	03/02/99
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8240A	03/02/99
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8240A	03/02/99

Approved By:  Joel Kiff

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **021899-W4**

Matrix : Water

Sample Date :02/18/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	7700	25	ug/L	EPA 8020	03/06/99
Toluene	130	25	ug/L	EPA 8020	03/06/99
Ethylbenzene	1300	25	ug/L	EPA 8020	03/06/99
Total Xylenes	300	25	ug/L	EPA 8020	03/06/99
Methyl-t-butyl ether	< 250	250	ug/L	EPA 8020	03/06/99
TPH as Gasoline	28000	2500	ug/L	M EPA 8015	03/06/99
TPH as Diesel	7700	50	ug/L	M EPA 8015	02/26/99
aaa-Trifluorotoluene (8020 Surrogate)	96.6		% Recovery	EPA 8020	03/06/99
aaa-Trifluorotoluene (Gasoline Surrogate)	91.4		% Recovery	M EPA 8015	03/06/99

Sample : **021999-W6**

Matrix : Water

Sample Date :02/19/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	19000	25	ug/L	EPA 8020	03/06/99
Toluene	390	25	ug/L	EPA 8020	03/06/99
Ethylbenzene	2000	25	ug/L	EPA 8020	03/06/99
Total Xylenes	2300	25	ug/L	EPA 8020	03/06/99
Methyl-t-butyl ether	< 250	250	ug/L	EPA 8020	03/06/99
TPH as Gasoline	56000	2500	ug/L	M EPA 8015	03/06/99
TPH as Diesel	780	50	ug/L	M EPA 8015	02/26/99
aaa-Trifluorotoluene (8020 Surrogate)	97.5		% Recovery	EPA 8020	03/06/99
aaa-Trifluorotoluene (Gasoline Surrogate)	104		% Recovery	M EPA 8015	03/06/99

Approved By:  Joel Kiff



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

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

Date Printed
3/05/99

Page
1

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

Batch 99-0224-010 consisted of 10 Samples and 10 Tests

METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL	DILUTION
--------	-----------	-----------	--------	-------	-----	----------

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

Total Petroleum Hydrocarbons	418.1	(IR w/ silica gel) 3/04/99	79	mg/kg	50	
------------------------------	-------	----------------------------	----	-------	----	--

Sample 2 021999-B3-2C
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99

Total Petroleum Hydrocarbons	418.1	3/04/99	440	mg/kg	50	
------------------------------	-------	---------	-----	-------	----	--

Sample 3 021999-B3-3B
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99

Total Petroleum Hydrocarbons	418.1	3/04/99	167	mg/kg	50	
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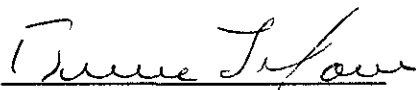
Sample 4 021999-MW2-1C
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99

Total Petroleum Hydrocarbons	418.1	3/04/99	66	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: 3/05/99



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

(continued from previous page) METHOD EXTRACTED TEST DATE RESULT UNITS PQL DILUTION

Sample 5 021999-MW2-2B
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99
Total Petroleum Hydrocarbons 418.1 3/04/99 63 mg/kg 50

Sample 6 021999-MW2-3B
Oakland Truck Stop 98042
Sample Type: Soil Sampled by: Sampled: 2/19/99
Total Petroleum Hydrocarbons 418.1 3/04/99 157 mg/kg 50

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



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

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CHEMICAL EXAMINATION REPORT

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3/05/99

Page
3


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 8 021999-MW4-2C -- continued)							
Total Petroleum Hydrocarbons	418.1		3/04/99	70	mg/kg	50	
Sample 9 021999-MW4-3C Oakland Truck Stop 98042 Sample Type: Soil Sampled by: Sampled: 2/19/99							
Total Petroleum Hydrocarbons	418.1		3/04/99	63	mg/kg	50	
Sample 10 021999-W3 Oakland Truck Stop 98042 Sample Type: Water Sampled by: Sampled: 2/19/99							
Total Petroleum Hydrocarbons	418.1		3/04/99	25	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

13409

3/19

WC-TI-11-1-1-4

KIFF ANALYTICAL SUBCONTRACT FORM

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

Please mail results to : Please fax to :

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

530-297-4803

707-468-0401

Account No. : KIFFLAB

PROJECT NAME : Oakland Truck Stop

PROJECT NUMBER: 98042

9 - jars

1 - 1 Lt Amber

Sample	Matrix	Sampled	Tests	Due	
021999-B3-1C	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	99-0224-10-1
021999-B3-2C	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-2
021999-B3-3B	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-3
021999-MW2-1C	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-4
021999-MW2-2B	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-5
021999-MW2-3B	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-6
021999-MW4-1C	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-7
021999-MW4-2C	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-8
021999-MW4-3C	SO	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-9
021999-W3	WA	02/19/99	O&G GRAV + SILICA GEL (5520E,F)	03/01/99	-10

IR

Relinquished by : Richard Perry

Date/Time: 2-23-99/1750

Received by: _____

Relinquished by : _____

Date/Time: 2/24/99 0950

Received by: Lisa Mella Calif over site

Relinquished by : _____

Date/Time: _____

Received by: _____



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

Lab No. 13409 Page 1 of 4

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

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

Project Number: 98042 P.O. No.: —
 Project Name: OAKLAND TRUCK STOP

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

Chain-of-Custody Record and Analysis Request

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	HCl	HNO ₃	ICE	NONE		WATER/SOIL	BTEX (8020)	BTEX/TPH Gas/MITBE (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	8240 - VOLS	Total Oil and Grease	12 hr/24 hr/48 hr/72 hr/1 wk/2 wk
021999-B1-1C	<u>4/19/99</u>	<u>1105</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>														<u>2w</u>	<u>-01</u>
021999-B1-2C		<u>1115</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>														<u>2w</u>	<u>-02</u>
021999-B1-3C		<u>1135</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>														<u>2w</u>	<u>-03</u>
021999-B2-1C		<u>1220</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>														<u>2w</u>	<u>-04</u>
021999-B2-2C		<u>1227</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>														<u>2w</u>	<u>-05</u>
021999-B2-3C		<u>1236</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>														<u>2w</u>	<u>-06</u>
021999-B3-1C		<u>127</u>	<u>1</u>					<u>✓</u>		<u>S</u>													<u>✓</u>	<u>✓</u>		<u>2w</u>	<u>-07</u>	
021999-B3-2C		<u>137</u>	<u>1</u>					<u>✓</u>		<u>S</u>													<u>✓</u>	<u>✓</u>		<u>2w</u>	<u>-08</u>	
021999-B3-3B		<u>150</u>	<u>1</u>					<u>✓</u>		<u>S</u>													<u>✓</u>	<u>✓</u>		<u>2w</u>	<u>-09</u>	
021899-B4-1B	<u>4/18/99</u>	<u>838</u>	<u>1</u>					<u>✓</u>		<u>S</u>		<u>✓</u>	<u>✓</u>													<u>2w</u>	<u>-10</u>	

Relinquished by: [Signature] Date: 2/22/99 Time: 1220 Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: 2/22/99 Time: 1220 Received by: Mary Corbet

Remarks: _____
 Email address: _____
 .doc .xls .txt other _____
 Bill to: _____



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

Lab No. 13409 Page 2 of 4

Project Manager: MR. ERIC J. ZAMB
 Company/Address: PENN ENVIRONMENTAL
 Project Number: 98042 P.O. No.:
 Project Location: 8255 SAN LEANDRO ST., OAKLAND
 Project Name: OAKLAND TRUCK STOP
 Sampler Signature: [Signature]

Phone No.: (707) 421-1595
 FAX No.: (707) 425-0257

Chain-of-Custody Record and Analysis Request

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	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	WET (X)	TOTAL (X)	
021899-B4-2B	2/18/99	845	1					✓		S		✓	✓														2w	-11
021899-B4-3C	↓	950	1					✓		S		✓	✓														2w	-12
021899-B4-4C	▽	1000	1					✓		S		✓	✓														2w	-13
021999-B6-1C	2/19/99	725	1					✓		S		✓	✓														2w	-14
021999-B6-2C	↓	735	1					✓		S		✓	✓														2w	-15
021999-B6-3C	▽	740	1					✓		S		✓	✓														2w	-16
021899-MW1-1C	2/18/99	1140	1					✓		S		✓	✓														2w	-17
021899-MW1-2C	↓	1201	1					✓		S		✓	✓														2w	-18
021899-MW1-3C	↓	1215	1					✓		S		✓	✓														2w	-19
021899-MW1-4C	▽	1235	1					✓		S		✓	✓														2w	-20

Relinquished by: [Signature] Date: 2/22/99 Time: 1220 Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: 2/22/99 Time: 1220 Received by Laboratory: Maya Cortez

Remarks: _____
 Email address: _____
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 Bill to: _____



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 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No. 13409 Page 3 of 4

Project Manager: MR. ERIL J. ZAMB
 Company/Address: PENN ENVIRONMENTAL
 Project Number: 98042 P.O. No.: ---
 Project Location: 8255 SAN LEANDRO ST. OAKLAND
 Project Name: OAKLAND TRUCK STOP
 Sampler Signature: [Signature]

Phone No.: (707) 421-1595
 FAX No.: (707) 425-0257

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix	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	8240 - VOCs	Total Oil & Grease	TAT	For Lab Use Only	
	Date	Time	40 ml VOA SLEEVE	1L GLASS	500 ml GLASS	HCl	HNO ₃	ICE	NONE																		WATER/SOIL
021999-MW2-1C	2/19/99	805	1					<input checked="" type="checkbox"/>		S																2w	-21
021999-MW2-2B	↓	822	1					<input checked="" type="checkbox"/>		S																2w	-22
021999-MW2-3B	↓	830	1					<input checked="" type="checkbox"/>		S																2w	-23
021899-MW3-1C	2/18/99	945	1					<input checked="" type="checkbox"/>		S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														2w	-24
021899-MW3-2C	↓	1000	1					<input checked="" type="checkbox"/>		S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														2w	-25
021899-MW3-3C	↓	1010	1					<input checked="" type="checkbox"/>		S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														2w	-26
021899-MW3-4C	↓	1025	1					<input checked="" type="checkbox"/>		S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														2w	-27
021999-MW4-1C	2/19/99	920	1					<input checked="" type="checkbox"/>		S												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2w	-28
021999-MW4-2C	↓	930	1					<input checked="" type="checkbox"/>		S												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2w	-29
021999-MW4-3C	↓	938	1					<input checked="" type="checkbox"/>		S												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2w	-30

Relinquished by: [Signature] Date: 2/22/99 Time: 1120
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: 2/22/99 Time: 1120

Received by: _____
 Received by: _____
 Received by Laboratory: Mary Corbit
 Remarks: _____
 Email address: _____
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 Bill to: _____



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 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No. 13409 Page 4 of 4

Project Manager:
 MR. ERIC J. ZAMB

Phone No.:
 (707) 425-0257

Chain-of-Custody Record and Analysis Request

Company/Address:
 PENN ENVIRONMENTAL

FAX No.:
 (707) 425-0257

Analysis Request

Project Number:
 98042

P.O. No.:
 —

Project Name:
 OAKLAND TRUCK STOP

Project Location:
 2255 SAN LEANDRO ST., OAKLAND

Sampler Signature:

Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix	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	WET (X)	TOTAL (X)	TAT	For Lab Use Only	
	Date	Time	40 ml VOA	SLEEVE	1L GLASS	500 ml GLASS	HCl	HNO ₃	ICE	NONE	Subtil Acid	WATER/SOIL															
021999-W1	2/19/99	1200	4					✓			E	✓	✓													2w	-31
021999-W2		100	4					✓			E	✓	✓													2w	-32
021999-W3		200	4		2			✓		✓	E											✓	✓		2w	-33	
021899-W4	2/18/99	1035	4					✓			E	✓	✓													2w	-34
021999-W6	2/19/99	810	4					✓			E	✓	✓													2w	-35

Relinquished by:
 Date: 2/22/99 Time: 1220

Received by: _____

Remarks:

Relinquished by: _____
 Date: _____ Time: _____

Received by: _____

Email address:
 .doc .xls .txt other _____

Relinquished by: _____
 Date: 2/22/99 Time: 1220

Received by Laboratory: Mary Conit

Bill to:

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

Subject : 4 Water Samples
Project Name : Oakland Truck Stop
Project Number : 98042

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



Report Number : 13480

Date : 03/18/99

Project Name : **Oakland Truck Stop**

Project Number : **98042**

Sample : **030299-MW1**

Matrix : Water

Sample Date :03/02/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.7	0.50	ug/L	EPA 8020	03/12/99
Toluene	< 0.50	0.50	ug/L	EPA 8020	03/12/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8020	03/12/99
Total Xylenes	1.8	0.50	ug/L	EPA 8020	03/12/99
Methyl-t-butyl ether	270	5.0	ug/L	EPA 8020	03/12/99
TPH as Gasoline	420	50	ug/L	M EPA 8015	03/12/99
TPH as Diesel	62000	50	ug/L	M EPA 8015	03/08/99
aaa-Trifluorotoluene (8020 Surrogate)	94.4		% Recovery	EPA 8020	03/12/99
aaa-Trifluorotoluene (Gasoline Surrogate)	86.7		% Recovery	M EPA 8015	03/12/99

Approved By:  Joel Kiff

Project Name : **Oakland Truck Stop**Project Number : **98042**Sample : **030299-MW2**

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	03/07/99
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Bromomethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Chloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Methylene Chloride	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
cis-1,2-Dichloroethene	0.99	0.50	ug/L	EPA 8240A	03/07/99
Chloroform	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Benzene	4.8	0.50	ug/L	EPA 8240A	03/07/99
Trichloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Toluene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Ethylbenzene	7.5	0.50	ug/L	EPA 8240A	03/07/99
P,M-Xylene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
O-Xylene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Styrene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
Bromoform	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8240A	03/07/99

Approved By:  Joel Kiff



Report Number : 13480

Date : 03/18/99

Project Name : **Oakland Truck Stop**


Project Number : **98042**

Sample : **030299-MW3**

Matrix : Water

Sample Date :03/02/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	24000	50	ug/L	EPA 8020	03/12/99
Toluene	140	50	ug/L	EPA 8020	03/12/99
Ethylbenzene	1000	50	ug/L	EPA 8020	03/12/99
Total Xylenes	470	50	ug/L	EPA 8020	03/12/99
Methyl-t-butyl ether	3300	500	ug/L	EPA 8020	03/12/99
TPH as Gasoline	68000	5000	ug/L	M EPA 8015	03/12/99
TPH as Diesel	840	50	ug/L	M EPA 8015	03/08/99
aaa-Trifluorotoluene (8020 Surrogate)	90.6		% Recovery	EPA 8020	03/12/99
aaa-Trifluorotoluene (Gasoline Surrogate)	112		% Recovery	M EPA 8015	03/12/99

Approved By:  _____
Joel Kiff

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:  _____
 Approved By: Joel Kiff

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

Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

(707) 468-0401

CHEMICAL EXAMINATION REPORT

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

Date Printed
3/05/99

Page
1

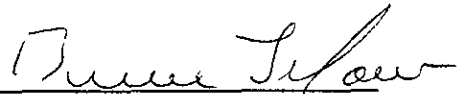
Batch Number 99-0303-005 Receipt Date 03/03/99 09:50 Client KIFFLAB Client P.O. 13480 Send Via Mail

	METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL	DILUTION
Batch 99-0303-005 consisted of 2 Samples and 2 Tests							
Sample 1	030299-MW2	Oakland Truck Stop					
	98042						
Sample Type: Water	Sampled by:		Sampled: 3/02/99				
Total Petroleum Hydrocarbons	418.1		3/04/99	2.6	mg/L	1	
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

13480

3/14

2 Lit. Ambers
Jed/Cold: yes
Preserved: n/a
Air Space/Bubbles: n/a

KIFF ANALYTICAL SUBCONTRACT FORM

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

Please mail results to :
JOEL KIFF
KIFF ANALYTICAL
720 OLIVE DRIVE, SUITE D
DAVIS, CA 95616

Please fax to :
530-297-4803

707-468-0401

Account No. : KIFFLAB

PROJECT NAME : Oakland Truck Stop

PROJECT NUMBER: 98042

Sample	Matrix	Sampled	Tests	Due
/ 030299-MW2	WA	03/02/99	O&G IR + SILICA GEL (5520E,F,C/418.1/TRPH)	03/09/99 49-0303-5-1
/ 030299-MW4	WA	03/02/99	O&G IR + SILICA GEL (5520E,F,C/418.1/TRPH)	03/09/99 - 2

send 1-L Glass

Relinquished by : *Richard Perry*

Date/Time: 3-2-99/1745

Received by: *Lady Lane* 3/3/99 @ 9:150

Relinquished by : _____

Date/Time: _____

Received by: _____

Relinquished by : _____

Date/Time: _____

Received by: _____

Cal o/n



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. ERIL J. ZAMB

Phone No.:
 (707) 421-1595

Chain-of-Custody Record and Analysis Request

Company/Address:
 PENN ENVIRONMENTAL

FAX No.:
 (707) 425-0257

Analysis Request

Project Number:
 98042

P.O. No.:
 -

Project Name:
 OAKLAND TRUCK STOP

Project Location:
 8255 SAN LEANDRO ST., OAKLAND

Sampler Signature:

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	Subtract 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					✓		E		✓	✓															2w	-01
030299-MW2	↓	1015	3	2		✓		✓		E														✓	✓		2w	-02	
030299-MW3	↓	1120	3					✓		E		✓	✓														2w	-03	
030299-MW4	↓	1151	3	2		✓		✓		E														✓	✓		2w	-04	

Relinquished by:

Date: 3/2/99
 Time: 1017

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Remarks:

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 Time:

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Email address:
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Relinquished by:

Date: 3/2/99
 Time: 1117

Received by Laboratory:

Bill to:



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

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Manager: MR. ERIC J. ZIMB
 Phone No.:
 Company/Address: ENVIRONMENTAL
 FAX No.: (530) 297-6274
 Project Number: 8042 P.O. No.:
 Project Name: OAKLAND TRUCK STOP
 Project Location: 825 S. LEONARD ST., OAKLAND
 Sampler Signature: [Signature]

Analysis Request														TAT	For Lab Use Only															
Sample Designation	Sampling		Container (Type/Amount)				Method Preserved				Matrix		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			
	Date	Time	40 ml VOA	SLEEVE	1L GLASS	500 ml GLASS	HCl	HNO ₃	ICE	NONE	WATER/SOIL																			
030299 - MW1	3/2/99	040	3					✓		✓			✓	✓															✓	2w
030299 - MW2		1015	3		2	✓		✓		✓														✓	✓			✓	2w	
030299 - MW3		1120	3					✓		✓			✓	✓														✓	2w	
030299 - MW4		1151	3		2	✓		✓		✓														✓	✓		✓	2w		

Relinquished by: [Signature] Date: 3/2/99 Time: 10:17
 Relinquished by: [Signature] Date: [] Time: []
 Relinquished by: [Signature] Date: 10/99 Time: 10:17

Received by: [Signature]
 Received by: [Signature]
 Received by Laboratory: [Signature]

Remarks:
 Email address:
 .doc .xls .txt other
 Bill to:



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

Lab No. _____

Page 1 of 4

Project Manager:
 MR. ERIC J ZAMB

Phone No.:
 (707) 421-1595

Chain-of-Custody Record and Analysis Request

Company/Address:
 PENN ENVIRONMENTAL

FAX No.:
 (707) 425-0257

Project Number:
 95042

P.O. No.:

Project Name:
 OAKLAND TRUCK STOP

Project Location:
 8255 SAN LEANUZO ST., OAKLAND

Sampler Signature:

Analysis Request

Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix	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	8240 - VOCs	Total Oil and Grease	TAT	For Lab Use Only	
	Date	Time	40 ml VOA	SLEEVE	1L GLASS	500 ml GLASS	HCl	HNO ₃	ICE																		NONE
021999- B1-1C	2/19/99	1105						✓		S		✓	✓												✓	2w	
021999- B1-2C		1115						✓		S		✓	✓												✓	2w	
021999- B1-3C		1135						✓		S		✓	✓												✓	2w	
021999- B2-1C		1220						✓		S		✓	✓												✓	2w	
021999- B2-2C		1227						✓		S		✓	✓												✓	2w	
021999- B2-3C		1236						✓		S		✓	✓												✓	2w	
021999- B3-1C		127						✓		S												✓	✓	✓	✓	2w	
021999- B3-2C		137						✓		S												✓	✓	✓	✓	2w	
021999- B3-3B		150						✓		S												✓	✓	✓	✓	2w	
021899- B4-1B	2/18/99	838						✓		S		✓	✓												✓	2w	

Relinquished by:

Date: 2/22/99
 Time: 1220

Received by:

Remarks:

Relinquished by:

Date: _____
 Time: _____

Received by:

Email address:
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Relinquished by:

Date: 2/22/99
 Time: 1210

Received by Laboratory:
 Nancy Cook

Bill to:



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

Lab No. _____ Page 2 of 4

Project Manager:
 MR. ERIC J. ZAMB

Phone No.:
 (507) 421-1545

Chain-of-Custody Record and Analysis Request

Company/Address:
 PENN ENVIRONMENTAL

FAX No.:
 (507) 423-0257

Project Number:
 98042

P.O. No.:

Project Name:
 OAKLAND TRUCK STOP

Project Location:
 8255 SAN LEANDRO ST., OAKLAND

Sampler Signature:

Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix	Analysis Request										TAT 12 hr/24 hr/48 hr/72 hr/1 wk/2 wk	For Lab Use Only						
	Date	Time	40 ml VOA SLEEVE	1L GLASS	500 ml GLASS	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	W.E.T. (X)	Lead (7421/239.2)	Cd, Cr, Pb, Zn, Ni		
021899 - B4 - 2B	2/18/99	845						✓		S	✓	✓														✓	2w	
021899 - B4 - 3C		950						✓		S	✓	✓														✓	2w	
021899 - B4 - 4C	▽	1000						✓		S	✓	✓														✓	2w	
021999 - B6 - 1C	2/19/99	725						✓		S	✓	✓														✓	2w	
021999 - B6 - 2C		735						✓		S	✓	✓														✓	2w	
021999 - B6 - 3C	▽	740						✓		S	✓	✓														✓	2w	
021899 - MW1 - 1C	2/18/99	1140						✓		S	✓	✓														✓	2w	
021899 - MW1 - 2C		1201						✓		S	✓	✓														✓	2w	
021899 - MW1 - 3C		1215						✓		S	✓	✓														✓	2w	
021899 - MW1 - 4C	▽	1235						✓		S	✓	✓														✓	2w	

Relinquished by:

Date: 2/22/99
 Time: 1220

Received by: _____

Remarks:

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Date: _____
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Date: 2/22/99
 Time: 1220

Received by Laboratory:

Bill to: _____



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

Lab No. _____

Project Manager:
 MR. ERIC T. ZAMB

Phone No.:
 (707) 421-2323

Chain-of-Custody Record and Analysis Request

Company/Address:
 PENN ENVIRONMENTAL

FAX No.:
 (707) 425-6257

Analysis Request

Project Number:
 98042

P.O. No.:

Project Name:
 OXLEY'S TRUCK STOP

Project Location:
 8255 SAN LEANDRO ST. OAKLAND

Sampler Signature:

Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix	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	8240 - VOCs	Total Oil & Grease	TAT	For Lab Use Only
	Date	Time	40 ml VOA SLEEVE	1L GLASS	500 ml GLASS	HCl	HNO ₃	ICE	NONE																	
021999-MW2-1C	2/19/99	805	1					✓		S													✓	2w		
021999-MW2-2B		822	1					✓		S													✓	2w		
021999-MW2-3B		830	1					✓		S													✓	2w		
021999-MW3-1C	2/18/99	945	1					✓		S	✓	✓											✓	2w		
021999-MW3-2C		1000	1					✓		S	✓	✓											✓	2w		
021999-MW3-3C		1010	1					✓		S	✓	✓											✓	2w		
021999-MW3-4C		1025	1					✓		S	✓	✓											✓	2w		
021999-MW4-1C	2/19/99	920	1					✓		S													✓	2w		
021999-MW4-2C		930	1					✓		S													✓	2w		
021999-MW4-3C		938	1					✓		S													✓	2w		

Relinquished by:

Date: 2/27/99
 Time: 1220

Received by: _____

Remarks:

Relinquished by: _____

Date: _____
 Time: _____

Received by: _____

Email address:
 .doc .xls .txt other _____

Relinquished by: _____

Date: 2/22/99
 Time: 1220

Received by Laboratory:

Bill to:



720 Olive Drive, Suite D
Davis, CA 95616

Lab: 916.297.4800
Fax: 916.297.4808

Project Manager: MR. ERIC T. ZAMB		Phone No.: (707) 421-1595		Chain-of-Custody Record and Analysis Request																							
Company/Address: DEAN ENVIRONMENTAL		FAX No.: (707) 475 0257																									
Project Number: 98042	PO. No.:	Project Name: OAKLAND TRUCK STOP		Analysis Request										TAT	For Lab Use Only												
Project Location: 8235 SAN LEANDRO ST, OAKLAND		Sampler Signature: <i>[Signature]</i>												12 hr/24 hr/48 hr/72 hr/1 wk/2 wks													
Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix		BTEX (8020)	BTEX/TPH Gas/MTBE (8020/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	EPA8010	EPA 8080 - Pesticides	EPA 8080 - PCBs	EPA 8240	EPA 8270	CAM - 17 Metals	Lead (7421/239.2)	Cd, Cr, Pb, Zn, Ni	WET. (X)	TOTAL (X)		
	Date	Time	VOA	SLEEVE	1L GLASS	500 ml	HCl	HNO ₃	ICE	NONE	WATER/SOIL																
020899-89-1C	2/8/99	1219		1					✓		S		✓	✓												✓	2w
020899-89-2C		1229		1					✓		S		✓	✓												✓	2w
020899-89-3B		1234		1					✓		S		✓	✓												✓	2w
020899-89-4B		1255		1					✓		S		✓	✓												✓	2w
020899-88-1C		0450		1					✓		S		✓	✓												✓	2w
020899-88-2B		1002		1					✓		S		✓	✓												✓	2w
020899-88-3B		1015		1					✓		S		✓	✓												✓	2w
020899-87-1C		1055		1					✓		S		✓	✓												✓	2w
020899-87-2C		1105		1					✓		S		✓	✓												✓	2w
020899-87-3C		1116		1					✓		S		✓	✓												✓	2w
Relinquished by:		Date	Time	Received by:		Remarks:																					
Relinquished by:		Date	Time	Received by:																							
Relinquished by:		Date	Time	Received by Laboratory:																							
		2/8/99	1:30			Email address:																					
						<input type="checkbox"/> .doc <input type="checkbox"/> .xls <input type="checkbox"/> .txt <input type="checkbox"/> other																					
		2/8/99	1:30	M. [Signature]		Bill to:																					



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Fax: 916.297.4808

Project Manager: MR. ERIC ZAYB Phone No.: (707) 421-1545

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

Project Number: 78042 PO. No.: --- Project Name: OAKLAND TRUCK STOP

Project Location: 8255 SAN LEONARDO ST. OAKLAND Sampler Signature: [Signature]

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container (Type/Amount)				Method Preserved				Matrix	BTEX (8020)	BTEX/TPH Gas/MTBE (8020/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	EPA8010	EPA 8080 - Pesticides	EPA 8080 - PCBs	EPA 8240	EPA 8270	W.E.T. (X)		TAT	For Lab Use Only
	Date	Time	VOA	SLEEVE	1L GLASS	500 ml	HCl	HNO ₃	ICE	NONE											WATER/SOIL	CAM - 17 Metals		
<u>020899-B7-413C</u>	<u>2/5/99</u>	<u>1128</u>		<u>1</u>							<u>S</u>		<u>✓</u>	<u>✓</u>									<u>✓</u>	<u>2w</u>
<u>020899-B8-413</u>		<u>1030</u>		<u>1</u>							<u>S</u>		<u>✓</u>	<u>✓</u>									<u>✓</u>	<u>2w</u>
<u>020899-W7</u>		<u>1140</u>	<u>4</u>								<u>E</u>		<u>✓</u>	<u>✓</u>									<u>✓</u>	<u>2w</u>
<u>020899-W8</u>		<u>1030</u>	<u>4</u>								<u>E</u>		<u>✓</u>	<u>✓</u>									<u>✓</u>	<u>2w</u>
<u>020899-W9</u>		<u>1300</u>	<u>4</u>								<u>E</u>		<u>✓</u>	<u>✓</u>									<u>✓</u>	<u>2w</u>

Relinquished by: [Signature] Date: 2/10/99 Time: 1:30 Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: 2/10/99 Time: 1:30 Received by Laboratory: [Signature]

Remarks: _____

Email address: _____
 .doc .xls .txt other _____

Bill to: _____