



KAPREALIAN ENGINEERING, INC.
Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510
(707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

PS

January 23, 1991

ask Dennis about
this case was signed
out to him in 1988

Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

Attention: ~~Mr. Gil Wistar~~

RE: Unocal Service Station #5781
3535 Pierson St. 94619
Oakland, California

Dear Mr. Wistar:

Per the request of Mr. Rick Sisk of Unocal Corporation, enclosed please find our report dated April 18, 1990, for the above referenced site.

Should you have any questions, please feel free to call our office at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Judy A. Dewey

jad\82

Enclosure

cc: Rick Sisk, Unocal Corporation

91 JAN 25 AM 11:35



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KEI-J89-1204.R5
April 18, 1990

Unocal Corporation
2175 N. California Blvd., #650
Walnut Creek, CA 94596

Attention: Mr. Rick Sisk

RE: Stockpiled Soil Sampling for
Unocal Service Station #5781
3535 Pierson Street
Oakland, California

Dear Mr. Sisk:

This letter report summarizes the results of the stockpiled soil sampling and laboratory analyses for the referenced site. The soil analyses were conducted to comply with the County Health Department requirements for proper disposal of contaminated soil.

On January 17, 1990, a soil sample from approximately 50 cubic yards of stockpiled soil excavated from the piping trenches at the referenced site was collected to determine proper disposal of the soil. One composite soil sample (designated as Comp I) was taken. Each composite sample consisted of four individual grab samples taken at various locations and depths ranging from 1 to 2 feet. The sample was collected in two-inch diameter, clean brass tubes, which was then sealed with aluminum foil, plastic caps and tape, and placed in a cooled ice chest for subsequent delivery to a certified laboratory for analysis. The sample was analyzed at Sequoia Analytical in Redwood City, California, and was accompanied by properly executed Chain of Custody documentation.

The composite sample was analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 in conjunction with modified 8015, benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA method 8020. The results of the soil analyses showed concentrations of TPH as gasoline at 1.9 ppm and non-detectable levels of BTX&E, except for 0.21 ppm of xylenes. Analytical results are summarized in Table 1. Copies of the laboratory analyses, and the Chain of Custody documentation are attached to this report.

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April 18, 1990
Page 2

Based on TPH as gasoline levels in the stockpiled soil of less than 10 ppm, the soil can be disposed of at an approved Class III disposal site.

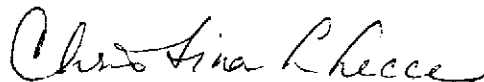
DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Services Agency, and to the Regional Water Quality Control Board, San Francisco Bay Region.

Should you have any questions on this report, please do not hesitate to contact me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.



Christina L. Lecce

c11

Attachments: Table 1
Laboratory Results
Chain of Custody documentation

KEI-J89-1204.R5
April 18, 1990

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Sample collected on January 17, 1990)

<u>Sample</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
Comp I	1.9	ND	ND	0.21	ND
Detection Limits	1.0	0.05	0.1	0.1	0.1

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

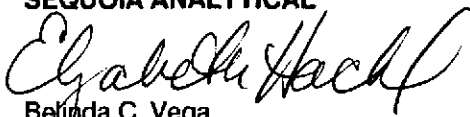
Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, Pierson/MacArthur	Sampled: Jan 17, 1990
P.O. Box 996	Sample Descript.: Soil, Composite I	Received: Jan 17, 1990
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Jan 17, 1990
Attention: Mardo Kaprealian, P.E.	Lab Number: 001-1881 A-B	Reported: Jan 19, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Low to Medium Boiling Point Hydrocarbons.....	1.0	1.9
Benzene.....	0.05	N.D.
Toluene.....	0.1	N.D.
Ethyl Benzene.....	0.1	N.D.
Xylenes.....	0.1	0.21

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Belinda C. Vega
Project Manager



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER HAGOP		SITE NAME & ADDRESS Unocal - Oakland - Pierson St / McArthur					ANALYSES REQUESTED TPH-G BTXE			TURN AROUND TIME: 24 Hrs
WITNESSING AGENCY										REMARKS 001881A-B
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	NO. OF CONT.	SAMPLING LOCATION			
Comp I	1/17/90		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> 2	stockpile	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Relinquished by: (Signature) Hagop Kework	Date/Time 1/17/90 4:00	Received by: (Signature) Tom McLean
Relinquished by: (Signature) Tom McLean	Date/Time 1-17-90	Received by: (Signature) [Signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)

The following MUST BE completed by the laboratory accepting samples for analysis:

- Have all samples received for analysis been stored in ice?
- Will samples remain refrigerated until analyzed?
- Did any samples received for analysis have head space? **NO**
- Were samples in appropriate containers and properly packaged?

Signature: **[Signature]** Title: **[Signature]** Date: **1-17-90**