



KAPREALIAN ENGINEERING, INC.
Consulting Engineers

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

March 14, 1991

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

Attention: Mr. William Faulhaber

RE: Unocal Service Station #3292
15008 E. 14th Street
San Leandro, California

Dear Mr. Faulhaber:

Per the request of Mr. Ron Bock of Unocal Corporation, enclosed please find our reports dated March 6, 1991 and March 7, 1991, and our report and work plan/proposal, both dated March 8, 1991, 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: Ron Bock, Unocal Corporation

91 MAR 16 AM 11:06



KAPREALIAN ENGINEERING, INC.
Consulting Engineers

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

KEI-J91-0102.R3
March 8, 1991

Unocal Corporation
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94583

Attention: Mr. Ron Bock

RE: Waste Oil Stockpiled Soil Sampling for
Unocal Service Station #3292
15008 East 14th Street
San Leandro, California

Dear Mr. Bock:

This letter report summarizes the results of the waste oil 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, 1991, one composite soil sample, labeled Comp WOA, was collected from approximately 20 cubic yards of soil excavated from the waste oil tank pit during tank removal and sampling. This composite sample consisted of four individual grab samples taken at various locations and a depth of approximately 2 feet, and composited as one sample by the lab. The sample was collected in two-inch diameter, clean brass tubes, which were 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 Laboratory in Concord, California, and was accompanied by properly executed Chain of Custody documentation.

The composite sample was analyzed to determine concentrations of total organic halides, PCB's using EPA method 8080, and the metals - arsenic, barium, cadmium, chromium, lead, copper, mercury, nickel, selenium, silver, thallium, vanadium and zinc. The analytical results of composite soil sample (Comp WOA) are shown on the attached Table 1, and are as indicated on the attached laboratory analyses.

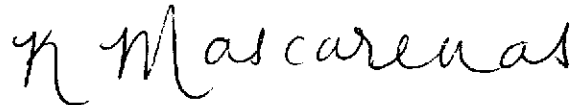
KEI-J91-0102.R3
March 8, 1991
Page 2

Based on the levels in the stockpiled soil, the soil was disposed of at Laidlaw Environmental Services, an approved Class II disposal site, by Dillard Trucking.

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

Sincerely,

Kaprealian Engineering, Inc.

A handwritten signature in cursive script that reads "K Mascarenas". The signature is written in dark ink and is positioned above the typed name.

Kristin B. Mascarenas

\kbm

Attachments: Table 1
Laboratory Results
Chain of Custody documentation

KEI-J91-0102.R3
March 8, 1991

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Results in mg/kg)
(Collected on January 17, 1991)

<u>Parameter</u>	<u>Comp WOA</u>
Arsenic	4.9
Barium	94
Cadmium	ND
Chromium	25
Copper	21
Lead	40
Mercury	0.040
Nickel	33
Selenium	ND
Silver	ND
Thallium	ND
Vanadium	24
Zinc	150
EPA method 8080	ND
Total Organic Halides	ND

ND = Non-detectable.



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(415) 686-9600 • FAX (415) 686-9689

Kaprealian Engineering, Inc.
P.O. Box 996
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, 15008 E. 14th St., San Leandro
Sample Descript: Soil, A-D Composite
Lab Number: 101-0391 A-D Comp

Sampled: Jan 17, 1991
Received: Jan 18, 1991
Extracted: Jan 22, 1991
Analyzed: 1/25-1/30/91
Reported: Jan 31, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Arsenic.....	0.25	4.9
Barium.....	5.0	94
Cadmium.....	0.50	N.D.
Chromium.....	0.25	25
Copper.....	0.50	21
Mercury.....	0.010	0.040
Lead.....	0.25	40
Silver.....	0.50	N.D.
Selenium.....	0.25	N.D.
Nickel.....	2.5	33
Thallium.....	0.25	N.D.
Vanadium.....	2.5	24
Zinc.....	0.50	150
Total Organic Halides.....	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Laboratory Director



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(415) 686-9600 • FAX (415) 686-9689

Kaprealian Engineering, Inc.
P.O. Box 996
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, 15008 E. 14th St., San Leandro
Sample Descript: Soil, A-D Composite
Analysis Method: EPA 8080
Lab Number: 101-0391 A-D Comp

Sampled: Jan 17, 1991
Received: Jan 18, 1991
Extracted: Jan 25, 1991
Analyzed: Jan 31, 1991
Reported: Jan 31, 1991

POLYCHLORINATED BIPHENYLS (EPA 8080)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB 1016.....	20	N.D.
PCB 1221.....	80	N.D.
PCB 1232.....	20	N.D.
PCB 1242.....	20	N.D.
PCB 1248.....	20	N.D.
PCB 1254.....	20	N.D.
PCB 1260.....	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Laboratory Director



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER <i>Tom Mascarenas</i>		SITE NAME & ADDRESS <i>UNOCAL - San Leandro #3292 15004 E. 14th St.</i>					ANALYSES REQUESTED <i>PEB TOX METALS - As, Ba, Ca, Cd, Cr, Pb, Hg, Ni, Se, Ni, V, Zn</i>			TURN AROUND TIME: <i>Regular</i>
WITNESSING AGENCY										REMARKS <i>1010391A-D</i>
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION		
<i>Comp 40A</i>	<i>1-17-91</i>		<input checked="" type="checkbox"/>				<i>4</i>	<i>Waste oil stockpile</i>		

Relinquished by: (Signature) <i>Tom Mascarenas</i>	Date/Time <i>1/17/91 100</i>	Received by: (Signature) <i>Tom Mascarenas</i>	The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <i>Yes</i> 2. Will samples remain refrigerated until analyzed? <i>Yes</i> 3. Did any samples received for analysis have head space? <i>N/A</i> 4. Were samples in appropriate containers and properly packaged? <i>Yes</i>
Relinquished by: (Signature) <i>Tom Mascarenas</i>	Date/Time <i>1/17/91 635</i>	Received by: (Signature) <i>Ed ...</i>	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

Signature _____ Title _____ Date *1-16-91*