KAPREALIAN ENGINEERING, INC.
Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 · 9100 (707) 746 · 6915

KEI-J89-0301.R5
May 5, 1989

Unocal Corporation
2175 N. California Blvd., Suite 650
Walnut Creek, CA 94569

550 yds^3 soil

Attention: Mr. Tim Ross

RE: Stockpiled Soil Sampling for
Unocal Service Station #6277
15803 E. 14th Street
San Leandro, California

Dear Mr. Ross:

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 May 1, 1989, soil samples from approximately 550 cubic yards of stockpiled soil at the referenced site were collected to determine proper disposal of the stockpile. Six composite soil samples (designated as Comp 1, Comp 2, Comp 3, Comp 4, Comp 5 and Comp 6) were taken. Each composite sample consisted of four individual grab samples taken at various locations and depths ranging from one to two feet. The samples were collected in 2" 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. All samples were analyzed at Sequoia Analytical Laboratory in Redwood City, California, and were accompanied by properly executed Chain of Custody documentation. Sample locations are as shown on the attached Site Plan.

The composite samples were analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 or 3810 in conjunction with modified 8015, and benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA methods 5030 and 8020. The results of the soil analyses showed concentrations of TPH as gasoline ranging from non-detectable to 3.1 ppm with non-detectable BTX&E constituents for each sample. Analytical results are summarized in Table 1. Copies of the laboratory analyses, and the Chain of Custody documentation are attached to this report.

Based on TPH levels in the stockpiled soil of less than five ppm, the soil can be disposed of at an approved Class III disposal site (based on Regional Water Quality Control Board guidelines).

A copy of this report should be sent to Mr. Larry Seto of the Alameda County Health Agency, and to the Regional Water Quality Control Board (RWQCB), 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.

Richard M. Bradish

Richard M. Bradish
Staff Engineer

Attachments: Table 1
Site Plan
Laboratory Results
Chain of Custody documentation

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TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Results in ppm)
(Samples collected on May 1, 1989)

Sample	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethylbenzene
Comp 1	3.1	ND	ND	ND	ND
Comp 2	1.1	ND	ND	ND	ND
Comp 3	ND	ND	ND	ND	ND
Comp 4	ND	ND	ND	ND	ND
Comp 5	ND	ND	ND	ND	ND
Comp 6	2.4	ND	ND	ND	ND
Detection Limits	1.0	0.05	0.1	0.1	0.1

ND = Non-detectable.

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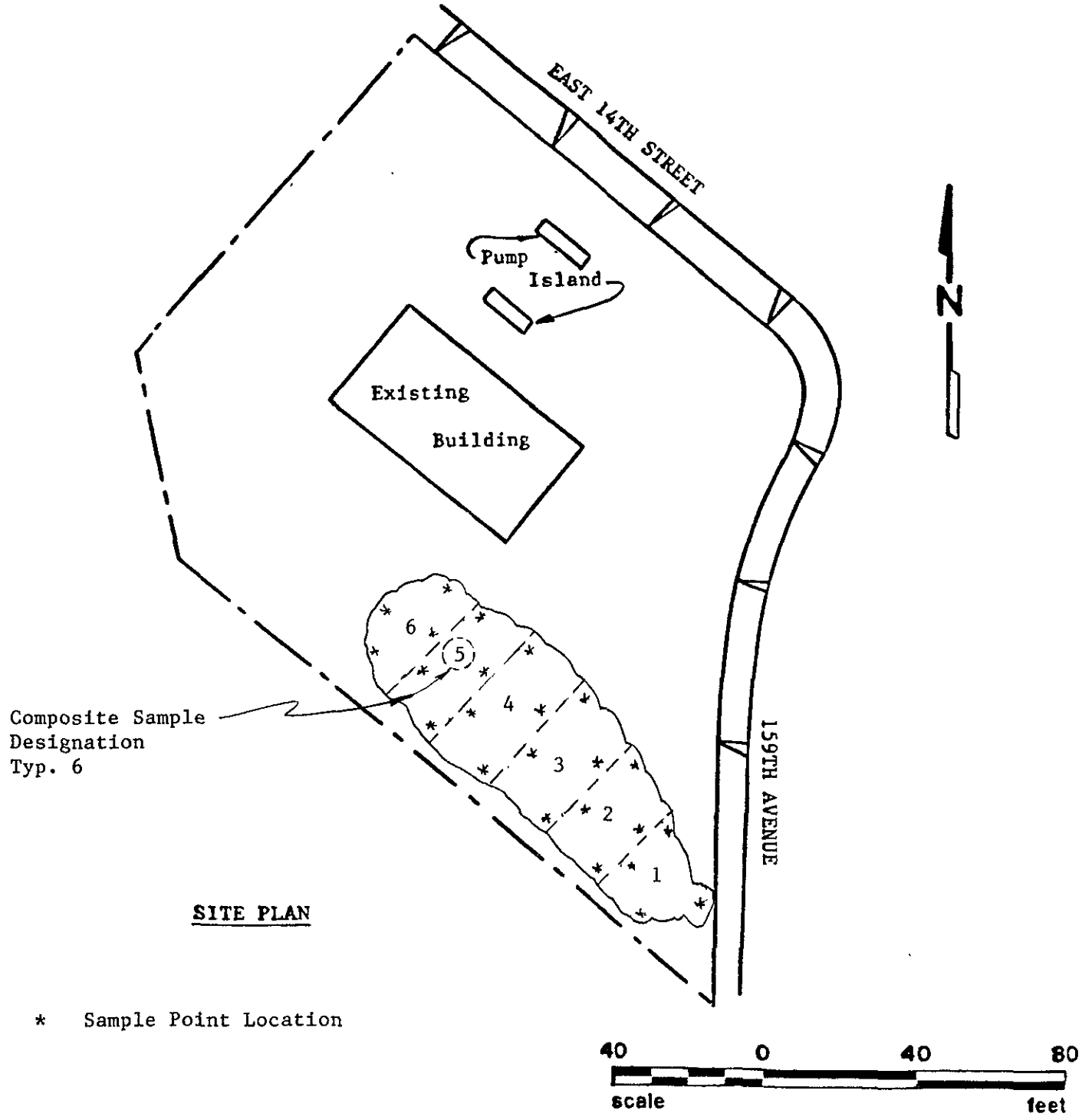

SITE PLAN

* Sample Point Location

Unocal Service Station #6277
15803 East 14th Street
San Leandro, California

SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, San Leandro, E 14th/159th	Sampled:	May 1, 1989
P.O. Box 913	Matrix Descript:	Soil	Received:	May 1, 1989
Benicia, CA 94510	Analysis Method:	EPA 5030/8015/8020	Analyzed:	May 1, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #:	905-0005 A-B	Reported:	May 3, 1989

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

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
9050005 A-B	Composite 1	3.1	N.D.	N.D.	N.D.	N.D.
9050006 A-B	Composite 2	1.1	N.D.	N.D.	N.D.	N.D.
9050007 A-B	Composite 3	N.D.	N.D.	N.D.	N.D.	N.D.
9050008 A-B	Composite 4	N.D.	N.D.	N.D.	N.D.	N.D.
9050009 A-B	Composite 5	N.D.	N.D.	N.D.	N.D.	N.D.
9050010 A-B	Composite 6	2.4	N.D.	N.D.	N.D.	N.D.
Detection Limits:		**1.0**	**0.05**	**0.1**	**0.1**	**0.1**

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

Arthur G. Burton
Laboratory Director

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CHAIN OF CUSTODY

SAMPLER: R. M. Braden (Signature) DATE/TIME OF COLLECTION: 5-1-89 TURN AROUND TIME: 24 HR

SAMPLE DESCRIPTION AND PROJECT NUMBER: Unocal - San Leandro
E 14th & 159th

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/ WATER
Comp 1	TPH-G & BTXE	C	2	S
" 2	" "	C	2	S
" 3	" "	C	2	S
" 4	" "	C	2	S
" 5	" "	C	2	S
" 6	" "	C	2	S

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. R. M. Braden	5-1-89 1400	Elie Tannous	5-1-89 1400
2. Elie Tannous	5-1-89 1310	Ron Hall	5/1/89 3:00 PM
3.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS:

NOTE: IF REGULAR TURNAROUND, SOIL ANALYSES MUST BE COMPLETED WITHIN 14 CALENDAR DAYS OF SAMPLE COLLECTION. WATER ANALYSES MUST BE COMPLETED WITHIN 7 CALENDAR DAYS FOR BTX&E (UNLESS SAMPLE HAS BEEN PRESERVED), AND 14 CALENDAR DAYS FOR TPH AS GASOLINE; EXTRACT TPH AS DIESEL WITHIN 14 CALENDAR DAYS.