KEI-J94-0903.R1 October 21, 1994

Unocal Corporation 2000 Crow Canyon Place, Suite 400 P.O. Box 5155 San Ramon, California 94583

Attention: Mr. Robert A. Boust

RE: Pumpability Project Report
Unocal Service Station #7376

4191 - 1st Street Pleasanton, California

Dear Mr. Boust:

This report summarizes Kaprealian Engineering, Inc's. (KEI) activities during the recent pumpability project (dispenser and piping replacement, and island modifications) at the subject service station. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB).

The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies

Collection of soil samples from the product piping trenches

Delivery of soil samples, including proper Chain of Custody documentation, to a certified analytical laboratory

Technical review of laboratory analyses and preparation of this report

FIELD ACTIVITIES

Per Unocal Corporation's direction, on September 9, 1994, KEI was present during the recent pumpability project at the subject service station. All former product piping and dispensers were removed from the trenches. Twelve soil samples (labeled P1 through P12) were collected from the product piping trenches at depths of approximately 3 feet below grade. The undisturbed samples were collected using a driven tube-type soil sampler. Samples were placed in clean, two-inch diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a state-certified laboratory. Mr. Scott

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Deaver from the City of Pleasanton Fire Department (CPFD) was onsite on September 9, 1994. The soil sample locations are shown on the attached Figure 1.

KEI returned to the site on September 15, 1994, to collect soil samples following the overexcavation in the areas of sample points P2 and P5. Two additional soil samples, labeled P2(9) and P5(9), were collected from the excavations at depths of approximately 9 feet below grade. On September 23, 1994, KEI was again on-site to observe excavation activities at the southwest portion of the site. One soil sample, labeled P13, was collected at a depth of approximately 9 feet below grade, in order to document concentrations of hydrocarbons in the soil at that portion of the site. These samples were also collected in two-inch diameter, clean brass tubes, and were also handled as described above. The soil sample point locations are shown on the attached Figure 1.

A total of approximately 198 cubic yards of soil were excavated from the dispenser islands and product piping trenches. Two composite soil samples (labeled Comp PT and Comp PT2) were collected from the stockpiled soil. The composite samples each consisted of four individual grab samples collected at various locations and at depths of approximately 2 feet into the stockpile. The individual samples were subsequently composited as one sample by the lab. These samples were also collected in two-inch diameter, clean brass tubes, and were also handled as described above.

The stockpiled soil was profiled and approved for disposal at Forward Landfill in Manteca, California, an approved Class II disposal facility. On September 21 and 29, 1994, approximately 198 cubic yards of soil were transported to Forward Landfill for disposal by Manley & Sons Trucking, Inc. of Sacramento, California, a licensed hazardous materials hauler.

SUBSURFACE CONDITIONS

The subsurface soils exposed in the piping trenches excavation consisted primarily of silty clay. Ground water was not encountered in any of the excavations.

ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical Laboratory in Concord, California, and were accompanied by properly executed Chain of Custody documentation. Samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX)

KEI-J94-0903.R1 October 21, 1994 Page 3

by EPA method 8020. Additionally, composite samples Comp PT and Comp PT2 were analyzed for total lead.

The analytical results for the soil samples are summarized in Tables 1 and 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results of all of the soil samples collected and evaluated, and in accordance with the guidelines established by the RWQCB, further subsurface investigative work is warranted at the subject site. At your request, KEI will prepare and submit a work plan to begin to delineate the extent of hydrocarbon contamination at the subject site.

DISTRIBUTION

A copy of this report should be sent to Mr. Scott Seery of the Alameda County Health Care Services Agency, and to the RWQCB, San Francisco Bay Region.

LIMITATIONS

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

KEI-J94-0903.R1 October 21, 1994 Page 4

If you have any questions on this report, please call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Hagop Kevork Staff Engineer

Joel G. Greger, C.E.G. Senior Engineering Geologist

License No. EG 1633 Exp. Date 6/30/96

Robert H. Kezerian

W-MINZ:

Pumpability Program Manager

\jad

Attachments: Tables 1 & 2

Location Map

Figure 1

Laboratory Analyses

Chain of Custody documentation

Mr. Tony Quijalvo, Unocal Corporation cc:

Ms. Lynda Chalom, Unocal Compliance Department

Mr. Scott Deaver, CPFD

Unocal Service Station #7376 4191 - 1st Street Pleasanton, California

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	<u>Sample</u>	Depth <u>(feet)</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Ethyl- <u>benzene</u>	<u>Xylenes</u>
9/09/94	P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12	3 3 3 3 3 3 3 3 3 3 3	ND 1,300 4.9 11 8,900 ND 8.7 10 65* ND ND 4.7*	ND 3.3 0.071 0.26 65 0.0093 0.21 0.074 0.69 ND ND 0.011	ND 57 0.028 0.014 570 0.015 0.028 0.27 0.15 ND ND 0.17	ND 26 0.065 0.23 160 ND 0.081 0.043 0.71 ND ND	ND 130 0.70 1.3 800 0.028 0.73 0.38 3.9 0.015 ND 0.54
9/15/94	P2(9) P5(9)	9 9	13 17	0.020 0.029	0.015 0.031	0.013 0.047	1.1 1.4
9/23/94	P13	9	4,400	29	390	150	790

ND = Non-detectable.

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

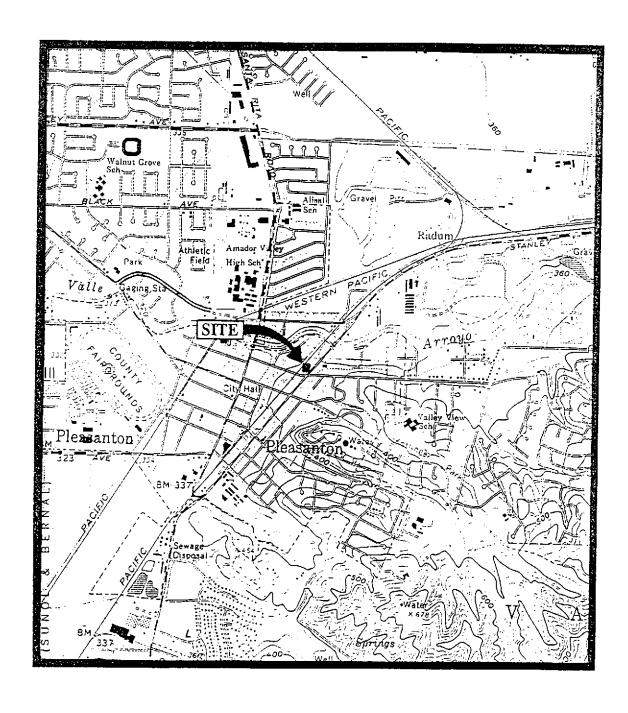
^{*} Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

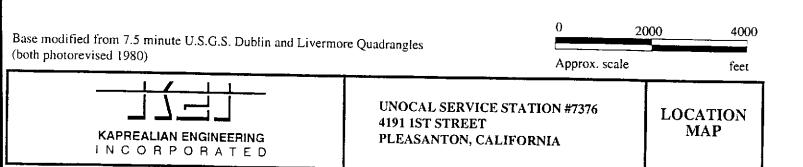
Unocal Service Station #7376 4191 - 1st Street Pleasanton, California

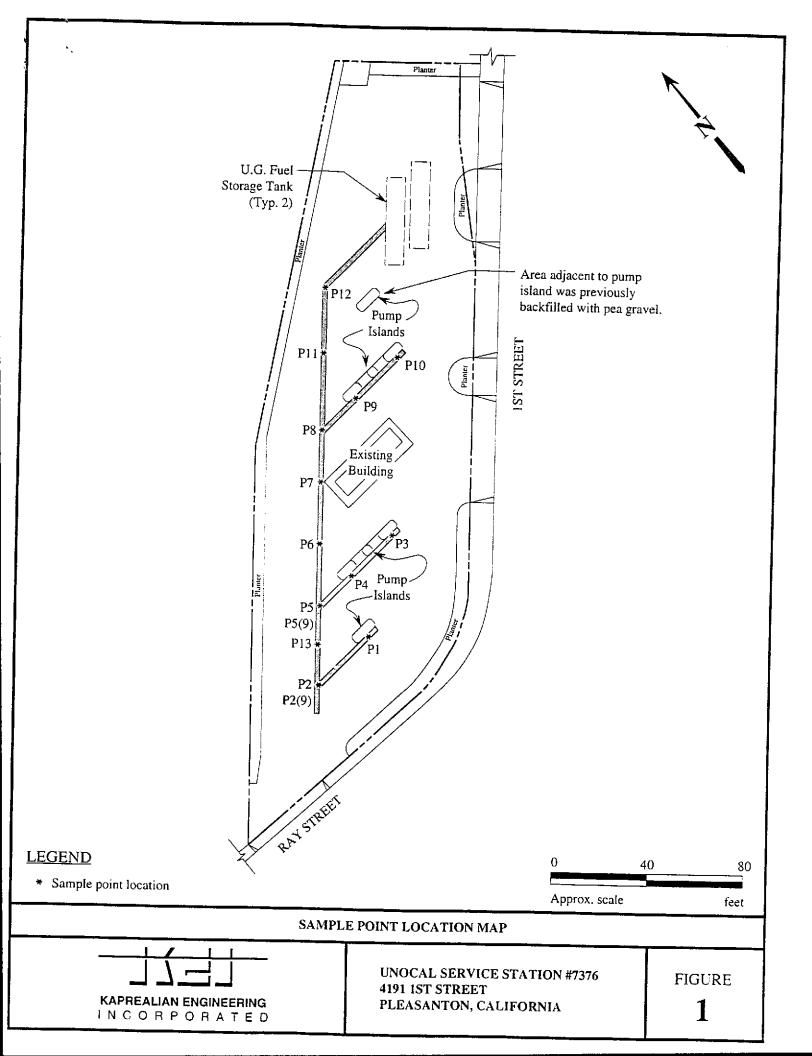
TABLE 2
SUMMARY OF LABORATORY ANALYSES
STOCKPILED SOIL

<u>Date Sample</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Ethyl- <u>benzene</u>	<u>Xylenes</u>	Total <u>Lead</u>
9/15/94 Comp PT	4,000	11	130	65	370	26
9/26/94 Comp PT2	930	0.68	5.8	6.9	63	9.3

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









680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Matrix:

Unocal #7376, 4191 First Street, Pleasanton

Soil

Analysis Method: EPA 5030/8015/8020 First Sample #: 409-0431

Sampled:

Sep 9, 1994 Sep 9, 1994

Received: Reported: Sep 12, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 409-0431 P1	Sample I.D. 409-0432 P2	Sample I.D. 409-0433 P3	Sample I.D. 409-0434 P4	Sample I.D. 409-0435 P5	Sample I.D. 409-0436 P6
Purgeable Hydrocarbons	1.0	N.D.	1,300	4.9	11	8,900	N.D.
Benzene	0.0050	N.D.	3.3	0.071	0.26	65	0.0093
Toluene	0.0050	N.D.	57	0.028	0.014	570	0.015
Ethyl Benzene	0.0050	N.D.	26	0.065	0.23	160	N.D.
Total Xylenes	0.0050	N.D.	130	0.70	1.3	800	0.028
Chromatogram Patt	ern:		Gasoline	Gasoline	Gasoline	Gasoline	

Quality Control Data

Report Limit Multiplication Factor:	1.0	50	1.0	1.0	1,000	1.0
Date Analyzed:	9/9/94	9/9/94	9/9/94	9/9/94	9/12/94	9/9/94
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	89	86	85	81	97	91

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Project Manager



Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Matrix:

Charles Pleasanton Sampled: Unocal #7376, 4191 First Street, Pleasanton

Soil

Analysis Method: EPA 5030/8015/8020 First Sample #: 409-0437

Sep 9, 1994

Received: Reported:

Sep 9, 1994 Sep 12, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 409-0437 P7	Sample I.D. 409-0438 P8	Sample i.D. 409-0439 P9*	Sample I.D. 409-0440 P10	Sample I.D. 409-0441 P11	Sample I.D. 409-0442 P12*
Purgeable Hydrocarbons	1.0	8.7	10	65	N.D.	N.D.	4.7
Benzene	0.0050	0.21	0.074	0.69	N.D.	N.D.	0.011
Toluene	0.0050	0.028	0.27	0.15	N.D.	N.D.	0.17
Ethyl Benzene	0.0050	0.081	0.043	0.71	N.D.	N.D.	0.091
Total Xylenes	0.0050	0.73	0.38	3.9	0.015	N.D.	0.54
Chromatogram Patte	ern:	Gasoline	Gasoline	Gasoline & Unidentified Hydrocarbons > C9			Gasoline & Unidentified Hydrocarbons > C9
Quality Control Data	a						
Report Limit Multiplic	ation Factor:	1.0	2.5	5.0	1.0	1.0	1.0
Date Analyzed:		9/9/94	9/12/94	9/9/94	9/9/94	9/9/94	9/9/94
Instrument Identificat	ion:	HP-2	HP-4	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, (QC Limits = 70-1309		113	94	163	100	98	103

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Please Note:

*This sample appears to contain Gasoline and a non-gasoline mixture. Unidentified hydrocarbons > C9 refers to unidentified peaks in the Total Extractable Petroleum Hydrocarbons range.

Alan B. Kemp Project Manager

4090431.KEI <2>



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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Matrix:

Unocal #7376, 4191 First Street, Pleasanton

Solid

QC Sample Group: 4090431-42

Reported:

Sep 12, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes
			Benzene	
Method: Analyst:	EPA 8020 J. Fontecha	EPA 8020 J. Fontecha	EPA 8020 J. Fontecha	EPA 8020 J. Fontecha
MS/MSD		-		
Batch#:	4090265	4090265	4090265	4090265
Date Prepared: Date Analyzed: Instrument I.D.#: Conc. Spiked:	9/9/94 9/9/94 HP-2 0.40 mg/kg	9/9/94 9/9/94 HP-2 0.40 mg/kg	9/9/94 9/9/94 HP-2 0.40 mg/kg	9/9/94 9/9/94 HP-2 1.2 mg/kg
Matrix Spike % Recovery:	100	113	120	121
Matrix Spike Duplicate % Recovery:	93	105	115	116
Relative % Difference:	7.3	7.3	4.3	4.2

LCS Batch#:	1LCS090994	1LCS090994	1LCS090994	1LCS090994	
Date Prepared: Date Analyzed: Instrument I.D.#:	9/9/94 9/9/94 HP-2	9/9/94 9/9/94 HP-2	9/9/94 9/9/94 HP-2	9/9/94 9/9/94 HP-2	
LCS % Recovery:	98	103	112	111	
% Recovery Control Limits:	55-145	47-149	47-155	56-140	

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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니 18939 120th Ave., N.E., Suite 101 • Bothelf, WA 98011 • (206) 481-9200

→ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

니 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

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1 3			અંત	nature;				Compa	ıny:				D		

1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600

U 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: KET	Project Name: 111100 01 / 152 H4 DI Son
Address Oliver Control of the Contro	Project Name: UNOCAL #1376-PLEASANTON
City: CONCORD State: CA Zip Code: 94520	UNOCAL Project Manager: BOB BOUST
C 0 9 1=100	
VIET HOLD	Site #: 4346 - 4191 FIRST STREET
Outipiet:	QC Data: ALLevel D (Standard) Level C Level B Level A
Time: 12 Work Days 15 Work Days 13 Work Days	rinking Water Analyses Requested
CODE DAY VICE	aste Water
Client Doto Time Matter Land Co.	
Sample I.D. Sampled Desc. Cont. Type Sample #	
1 P11 9/9/94 SOIL 1 TUBE 4090441	COMMents
2 P12 9/9/94-501L 1 TUBE 4090442	<u>-, </u>
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Relinquished By: CONDICOND Relinquished By: CONDICOND Relinquished By: CONDICOND Relinquished By: 9/9/9/Time: 5:35	Received By: Charles Date: 9.7.97 Time: 5:35
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Polinguish ad D	Date. Time:
Mars O. T. Date. Time:	Received By Lab: Cruser Date: 1294 Time: 0800
Were Samples Received in Good Condition? Yes ☐ No Samples on Ice?	Yes I No Method of Shipment Page 2 of 2
To be completed upon receipt of report: 1) Were the analyses requested on the Chair of Contact.	
1) Were the analyses requested on the Chain of Custody reported? U Yes U No. 18 2) Was the report issued within the requested turnaround time? U Yes U No. 18 Approved by:	to the what was the turner and times
Approved by: Signature:	Company:

*



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Matrix: Analysis Method:

First Sample #:

Unocal #7376, 4191 First Street, Pleasanton

Soil EPA 5030/8015/8020 Sampled: Received:

Sep 15, 1994 Sep 15, 1994

Reported:

Sep 19, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

409-0871

Analyte	Reporting Limit mg/kg	Sample I.D. 409-0871 P2 (9)	Sample I.D. 409-0872 P5 (9)	
Purgeable Hydrocarbons	1.0	13	17	
Benzene	0.0050	0.020	0.029	
Toluene	0.0050	0.015	0.031	
Ethyl Benzene	0.0050	0.013	0.047	
Total Xylenes	0.0050	1.1	1.4	
Chromatogram Patt	ern:	Gasoline	Gasoline	

Quality Control Data

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager

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Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID:

Matrix:

Unocal #7376, 4191 First Street, Pleasanton

Solid

QC Sample Group: 4090871-872

Reported:

Sep 23, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene	. 3/2/140	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon	
MS/MSD			·		
Batch#:	4090526	4090526	4090526	4090526	
Date Prepared:	9/16/94	9/16/94	9/16/94	9/16/94	
Date Analyzed: Instrument I.D.#:	9/16/94	9/16/94	9/16/94	9/16/94	
Conc. Spiked:	HP-4 0.40 mg/kg	HP-4	HP-4	HP-4	
oonor opinea.	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	
Matrix Spike					
% Recovery:	90	102	102	105	
Matrix Spike					
Duplicate %					
Recovery:	82	95	95	97	
Relative %					
Difference:	9.3	7.1	7.1	7.9	

LCS Batch#:	2LCS091694	2LCS091694	2LCS091694	2LCS091694	
Date Prepared: Date Analyzed: Instrument I.D.#:	9/16/94 9/16/94 HP-4	9/16/94 9/16/94 HP-4	9/16/94 9/16/94 HP-4	9/16/94 9/16/94 HP-4	
LCS % Recovery:	108	84	97	99	
% Recovery Control Limits:	55-145	47-149	47-155	56-140	

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

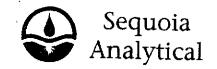
U 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 U 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600

U	189	939 120	th Ave.,	N.E.,	Suite	101	• Bothell,	WA	98011	(206)	481-920
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☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

Li 15055 S.W. Sequoia Pkwy, Suile 110 • Portland, OR 97222 • (503) 624-9800

Company Name: KEL	Project Name: LINOCAL # 7376 - PLEASANTON
Address: 2401 STANWELL DR. #41	UNOCAL Project Manager: BOB BOUST
	520 Release #:
	609 HZHC 1101 FIRE CODE
Report To: KEL Sampler: HAIG	
Turnaround 10 Work Days 15 Work Days 13 Work Days	QC Data: Level D (Standard) Level C Level B Level A
Time: 1 2 Work Days 1 Work Day 1 2-8 Hours	☐ Drinking Water Analyses Requested ☐ Waste Water
CODE: A Misc. Detect. Deval. Remed. Demol. Closure	Waste Water Other
Client Date/Time Matrix # of Cont. La	ample # Comments
1 P2 (9) 9/15/94 SOIL TUBE 409	
2 P5 (9) 9/15/94 SOIL 1 TUBE 409	-
3.	
4.	
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Were Samples Received in Good Condition? Yes U No Samples	on Ice? X Yes U No Method of Shipment Page of
To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? Uses the report issued within the requested turnaround time? Uses Approved by: Signature:	I Yes ⊔ No. If no, what analyses are still needed? s ⊔ No. If no, what was the turnaround time?
	Company;



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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Unocal #7376, 4191 1st St., Pleasanton Soil

Sep 23, 1994

Attention: Avo Avedissian

Sample Matrix: Analysis Method:

EPA 5030/8015/8020

Received: Reported:

Sampled:

Sep 23, 1994

First Sample #:

409-1529

Sep 30, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 409-1529 P13	
Purgeable Hydrocarbons	1.0	4,400	
Benzene	0.0050	29	
Toluene	0.0050	390	
Ethyl Benzene	0.0050	150	
Total Xylenes	0.0050	790	
Chromatogram Patt	ern:	Gasoline	

Quality Control Data

Report Limit Multiplication Factor: 500 Date Analyzed: 9/28/94

Instrument Identification:

Surrogate Recovery, %: (QC Limits = 70-130%)

HP-2 116

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

B. Kemp Project Manager

4091529.KEI < 1>



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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Matrix:

Unocal #7376, 4191 1st St., Pleasanton Solid

QC Sample Group: 409-1529

Reported:

Oct 4, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Tabaaaa			
	Delizerie	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	5 74				
	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon	
MC /MCD				-	
MS/MSD					
Batch#:	4091448	4091448	4091448	4091448	
Data Draward.					
Date Prepared:	9/28/94	9/28/94	9/28/94	9/28/94	
Date Analyzed:	9/28/94	9/28/94	9/28/94	9/28/94	
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	
Matrix Spike					
% Recovery:	400				
76 necovery:	100	108	115	116	
Matrix Spike					
Duplicate %					
Recovery:	100	110	120	120	
Relative %					
Difference:					
Dinerence,	0.0	1.8	4.2	3.4	
			18 M 00000000000000000000000000000000000	\$10,000 \$100 \$100 \$100 \$100 \$100 \$100 \$1	
LCS Batch#:	1LCS092894	41 CC00000 :			
LOO Dateily.	1603092894	1LCS092894	1LCS092894	1LCS092894	

LCS Batch#:	1LCS092894	1LCS092894	1LCS092894	1LCS092894		
Date Prepared: Date Analyzed: Instrument I.D.#:	9/28/94 9/28/94 HP-2	9/28/94 9/28/94 HP-2	9/28/94 9/28/94 HP-2	9/28/94 9/28/94 HP-2		
LCS % Recovery:	100	105	112	114		
% Recovery Control Limits:	55-145	47-149	47-155	56-140		···

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents. preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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 □ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9809.

Company Name: K	'El					[.	⊃roject	Name	();	Vica	1/2	フ3:	76	1191	1 151	<i>C</i>	RESIA	
Address: 2401 STANNELL Dr., \$400								\L Pro	ject M	anage	r: <i>P</i>)O.B	Rows	~~		<u> </u>	1101×120	17t/2
City: Concard	State:	CA		Zip Code:	·		UNOCAL Project Manager: Bob Bous 7 Release #:											
	Telephone: 602-5104 FAX#: 687-060L						Site #: 1/5 7376											
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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Matrix:

First Sample #:

Unocal #7376 - 4191 First Street, Pleasanton

Soil

EPA 5030/8015/8020

Analysis Method: 409-0870 Sampled: Sep 15, 1994 Received:

Sep 15, 1994 Reported: Sep 19, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 409-0870 Comp PT	
Purgeable Hydrocarbons	1.0	4,000	
Benzene	0.0050	11	
Toluene	0.0050	130	
Ethyl Benzene	0.0050	65	
Total Xylenes	0.0050	370	
Chromatogram Patt	ern:	Gasoline	

Quality Control Data

Report Limit Multiplication Factor:

500

Date Analyzed:

9/16/94

Instrument Identification:

HP-4

Surrogate Recovery, %:

(QC Limits = 70-130%)

92

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

B. Kemp Project Manager



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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Descript: Analysis for:

First Sample #:

Unocal #7376 - 4191 First Street, Pleasanton

Soil Lead 409-0870

Sampled: Received: Extracted: Sep 15, 1994 Sep 15, 1994

Analyzed:

Sep 16, 1994 Sep 17, 1994

Reported: Sep 19, 1994

LABORATORY ANALYSIS FOR:

Lead

Sample Number 409-0870	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
409-0870	Comp PT	1.0	26

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

SEQUOIA ANALYTICAL, #1271

Aganrí B. Ken√ip Project Manager



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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Client Project ID:

Matrix:

Unocal #7376 - 4191 First Street, Pleasanton

Solid

Attention: Avo Avedissian

QC Sample Group: 409-0870

Reported:

Sep 26, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Lead	
			Benzene			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K. Aлderson	
MS/MSD						
Batch#:	4090526	4090526	4090526	4090526	4090884	
Date Prepared:	9/16/94	9/16/94	9/16/94	9/16/94	9/17/94	
Date Analyzed:	9/16/94	9/16/94	9/16/94	9/16/94	9/17/94	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty-100	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/kg	
Matrix Spike						
% Recovery:	90	102	102	105	107	
Matrix Spike						
Duplicate %						
Recovery:	82	95	95	97	107	
Relative %						
Difference:	9.3	7.1	7.1	7.9	0.0	

2LCS091694	2LCS091694	2LCS091694	2LCS091694	BLK091694	
9/16/94	9/16/94	9/16/94	9/16/94	9/16/94	
9/16/94	9/16/94	9/16/94	9/16/94	9/17/94	
HP-4	HP-4	HP-4	HP-4	Liberty-100	
108	84	97	99	98	
55-145	47-149	47-155	56-140	75-125	
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SEQUOIA ANALYTICAL, #1271 prep

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Alan B. Kemp (Project Manager

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Company Name:	KEI					Р	roject l	Vame:	UN	00	AL	#	731	16-	PIE	ASA	N TO	N	1
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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID: Sample Matrix:

Analysis Method:

First Sample #:

Unocal #7376, 4191 First Street, Pleasanton

EPA 5030/8015/8020

Sampled: Received: Sep 26, 1994 Sep 26, 1994

Reported: Sep 27, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

409-1608

Analyte	Reporting Limit mg/kg	Sample I.D. 409-1608 Comp PT2	
Purgeable Hydrocarbons	1.0	930	
Benzene	0.0050	0.68	
Toluene	0.0050	5.8	
Ethyl Benzene	0.0050	6.9	
Total Xylenes	0.0050	63	
Chromatogram Pattern:		Gasoline	

Quality Control Data

Report Limit Multiplication Factor:	100
Date Analyzed:	9/26/94
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	86

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager



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Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

Sampled:

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Sep 26, 1994

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Descript: Analysis for: First Sample #:

Unocal #7376, 4191 First Street, Pleasanton Soil Lead 409-1608

Received: Sep 26, 1994 Extracted: Sep 26, 1994 Analyzed: Sep 26, 1994 Reported: Sep 27, 1994

LABORATORY ANALYSIS FOR:

Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
409-1608	Comp PT2	1.0	9.3

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager



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Redwood City, CA 94063 Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Matrix:

Unocal #7376, 4191 First Street, Pleasanton

Attention: Avo Avedissian

QC Sample Group: 409-1608

Reported:

Oct 13, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Lead	<u> </u>
			Benzene	•		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon	J. Dinsay	
MS/MSD						
Batch#:	4091553	4091553	4091553	4091553	4091299	
			, , , , , , , , , , , , , , , , , , , ,			
Date Prepared:	9/26/94	9/26/94	9/26/94	9/26/94	9/26/94	
Date Analyzed:	9/26/94	9/26/94	9/26/94	9/26/94	9/26/94	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty-100	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/kg	
Matrix Spike						
% Recovery:	70	83	88	89	93	
Matrix Spike						
Duplicate %						
Recovery:	68	80	85	88	97	
necovery.	00	80	65	66	97	
Relative %						
Difference:	2.9	3.7	3.5	1.1	4.2	

LCS Batch#:	2LCS092694	2LCS092694	2LCS092694	2LCS092694	KNS091894B-3	
Date Prepared:	9/26/94	9/26/94	9/26/94	9/26/94	9/26/94	
Date Analyzed:	9/26/94	9/26/94	9/26/94	9/26/94	9/26/94	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty-100	
LCS %						
Recovery:	96	101	99	99	96	
% Recovery Control Limits:	55-145	47-149	47-155	56-140	75-125	

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents. preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Company Name: KET				Project	Project Name: LLNOCAL # 1316-PLEASANTON]		
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Were Samples Received in Good Condition? Yes ☐ No Samples on				mples on Ic	e? Xi Yes	IJ No	Meth	od of S	Shipme	ent			— .	Page _	_ of	_
To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? U Yes U No. If no, what analyses are still needed? 2) Was the report issued within the requested turnaround time? U Yes U No. If no, what was the turnaround time?																
Approved by:	pproved by: Signature:					Company: Date:							1			