KAPREALIAN ENGINEERING INCORPORATED RECEIVED

2:42 pm, Apr 16, 2009

Alameda County
Environmental Health

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

<u>Pleasanton, California</u>

AFFROVED

ROBERTA BOUST

Dear Mr. Boust:

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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)

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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

RAM NZ

Robert H. Kezerian

Pumpability Program Manager

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Attachments: Tables 1 & 2

Location Map

Figure 1

Laboratory Analyses

Chain of Custody documentation

cc: Mr. Tony Quijalvo, Unocal Corporation

Ms. Lynda Chalom, Unocal Compliance Department

Mr. Scott Deaver, CPFD

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

L. C.

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	3	ND	ND	ND	ND	ND
	P2	3	1,300	3.3	57	26	130
	P3	3	4.9	0.071	0.028	0.065	0.70
	P4	3	11	0.26	0.014	0.23	1.3
	P 5	3	8,900	65	570	160	800
	P6	3	ND	0.0093	0.015	ND	0.028
	P 7	3	8.7	0.21	0.028	0.081	0.73
	P8	3	10	0.074	0.27	0.043	0.38
	P9	3	65*	0.69	0.15	0.71	3.9
	P10	3	ND	ИD	ND	ND	0.015
	P11	3	ND	ND	ND	ИD	ND
	P12	3	4.7*	0.011	0.17	0.091	0.54
9/15/94	P2(9)	9	13	0.020	0.015	0.013	1.1
	P5 (9)	9	17	0.029	0.031	0.047	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</u> <u>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	6'5	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.

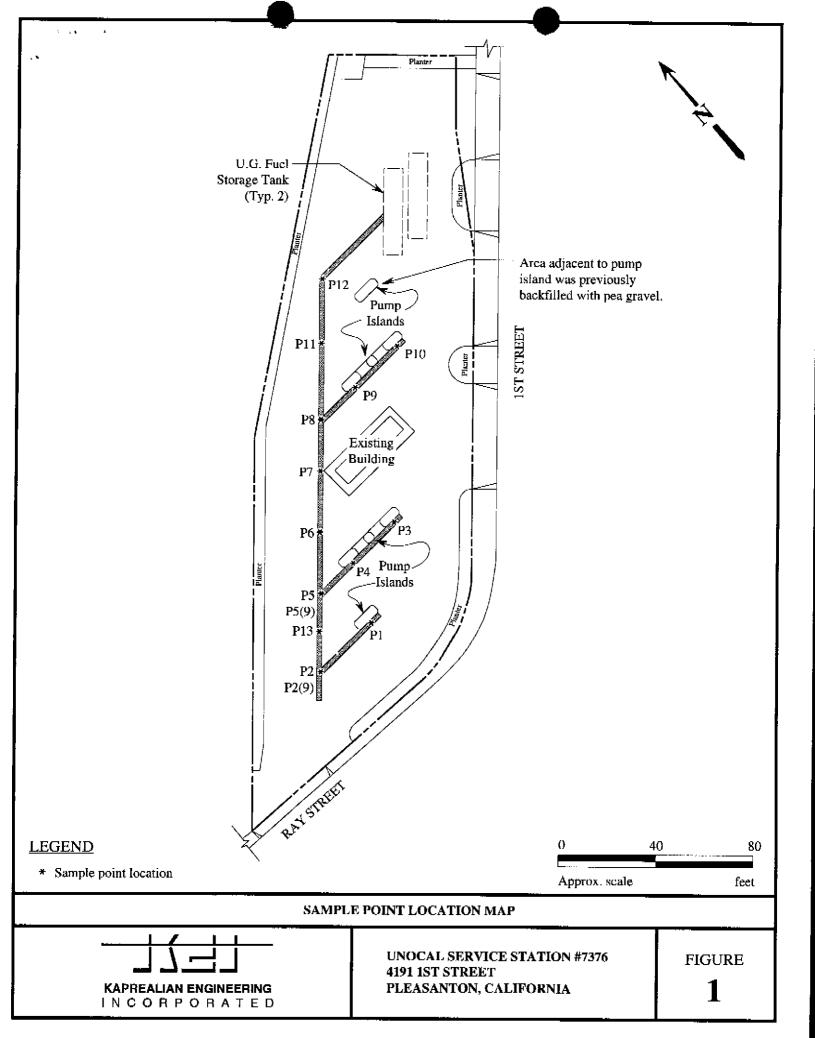
Base modified from 7.5 minute U.S.G.S. Dublin and Livermore Quadrangles
(both photorevised 1980)

0 2000 4000
Approx. scale feet

KAPREALIAN ENGINEERING INCORPORATED

UNOCAL SERVICE STATION #7376 4191 1ST STREET PLEASANTON, CALIFORNIA

LOCATION MAP





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

409-0431

Sampled:

Sep 9, 1994

Received: Sep 9, 1994 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 Pat	tern:		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 Manage



680 Chesapeake Drive 1900 Bates Avenue, Suite U 819 Striker Avenue, Suite 8

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: Sample Matrix: Analysis Method:

First Sample #:

Unocal #7376, 4191 First Street, Pleasanton

Soil

EPA 5030/8015/8020 409-0437

Sampled: Received: Sep 9, 1994 Sep 9, 1994

Reported:

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 Pattern:		Gasoline	Gasoline	Gasoline & Unidentified Hydrocarbons > C9			Gasoline & Unidentified Hydrocarbons > C9
Quality Control Da	ata						
Report Limit Multip	lication 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 Identific	ation:	HP-2	HP-4	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)		113	94	163	100	98	103

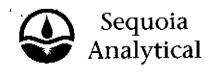
Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager 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.





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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

Kapreallan Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Client Project ID: Unocal #7376, 4191 First Street, Pleasanton

Matrix: Solid

Attention: Avo Avedisslan QC Sample Group: 4090431-42 Reported: Sep 12, 1994

QUALITY CONTROL DATA REPORT

			_		_
ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	
140 /140 D					
MS/MSD					
Batch#:	4090265	4090265	4090265	4090265	
Date Prepared:	9/9/94	9/9/94	9/9/94	9/9/94	
Date Analyzed:	9/9/94	9/9/94	9/9/94	9/9/94	
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:	100	113	120	121	
	100	110	120		
Matrix Spike					
Duplicate %					
Recovery:	93	105	115	116	
•					
Relative %					
Difference:	7.3	7.3	4.3	4.2	
					10000000000000000000000000000000000000
LCS Batch#:	1LCS090994	1LCS090994	1LCS090994	1LC5090994	
Date Prepared:	9/9/94	9/9/94	9/9/94	9/9/94	
Date Analyzed:	9/9/94	9/9/94	9/9/94	9/9/94	
Instrument l.D.#:	HP-2	HP-2	HP-2	HP-2	
LCS %					
Recovery:	98	103	112	111	
	55	.00	112		
% Recovery					

SEQUOIA ANALYTICAL, #1271

55-145

Alan B. Kemp Project Manager

Control Limits:

Please Note:

47-149

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.

56-140

4090431.KEI <3>

47-155

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J	680 Chesapeake Drive •	Redwood City, C	CA 94063 • (415) 364-9600

3 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600

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

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

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

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

Company Name: KET Project Name: UNDCAL # 1316 - PLEASAN	TON
Address: 2401 STANWELLDR, #400 UNOCAL Project Manager: BOB BOUST	
City: CONCORD State: CA Zip Code: 94520 Release #:	
Telephone: 602-5100 FAX #: 687-0602 Site #: 7376-4191 FIRST STREET	Client
Report To: KET Sampler: HAIG QC Data: Kevel D (Standard) D Level C D Level B D Level	•
Turnaround ☐ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ Drinking Water Analyses Requested	 _
Time: ☐ 2 Work Days ☐ 2-8 Hours ☐ Waste Water ☐ 1/4/	_
CODE: Misc. Detect. Eval. Remed. Demol. Closure Other	
Client Date/Time Matrix # of Cont. Laboratory Sample I.D. Sampled Desc. Cont. Type Sample #	nents
1 PI 9/9/94 5014 1 TUBE 4090431 VV	to y
2 P2 1 4090432 V V	- Laboratory
3. P3 1 4090433 L L	
4. 『年 1 4090434 レレ 1 1 4090434 レ レ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yellow
5. P.5 1 4090435 U V	
6. P6 1 4090436 レレ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7. P7 1 4090437 レレ	
8. P8 1 4090438 U U	
9. P9 1 4090439 V V	
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Relinquished By: Date: Date: Time:	Vhite
Relinguished By: Date: Time: Received By Lab. Cruse 9/12/94 Time: OSO	0 ^
Were Samples Received in Good Condition? ✓ Yes ⊔ No Samples on Ice? ✓ Yes □ No Method of Shipment Page ⊥ c	
To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? □ Yes □ No. If no, what analyses are still needed? —————————————————————————————————	
Approved by:Signature:Company:Date: _	

	3 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
UNOCAL 76	☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600

□ 18939	120th Ave.,	N.E.,	Suite	101 •	· Bothell,	WA	98011	• (206)	481-	920

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Approved by:				Signature:					.Com	pany:						Da	ate:	
													_					



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

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: Sample Matrix: Analysis Method:

First Sample #:

Unocal #7376, 4191 First Street, Pleasanton

Soil

EPA 5030/8015/8020 409-0871 Sampled: Received: Sep 15, 1994 Sep 15, 1994

Reported: Sep 19, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

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 Pat	ttern:	Gasoline	Gasoline	

Quality Control Data

Report Limit Multiplication Factor:	2.0	10
Date Analyzed:	9/16/94	9/16/94
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	107	94

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. Kerrip Project Manager

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680 Chesapeake Drive 1900 Bates Avenue, Soite L 819 Striker Avenue, Soite 8

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		
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:	9/16/94	9/16/94	9/16/94	9/16/94	
nstrument I.D.#:	HP-4	HP-4	HP-4	HP-4	
Conc. Spiked:	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#:	2LC\$091694	2LCS091694	2LCS091694	2LC5091694	
Date Prepared:	9/16/94	9/16/94	9/16/94	9/16/94	
Date Analyzed:	9/16/94	9/16/94	9/16/94	9/16/94	
Instrument l.D.#:	HP-4	HP-4	HP-4	HP-4	
LCS %					
Recovery:	108	84	97	99	
% Recovery					
Control Limits:	55-145	47-149	47-155	56-140	•

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.

ŞEQUOIA ANALYTICAL, #1271

Alah/B. Kemp Project Manager

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UNOCAL 76

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

Company Name:	KEI	··		·		Project I	Name:	UNI	00 a	\ - #	£ 142	376	_ F	<u> </u>	ASA	NTO	I)
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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #		33/4	5 7								Comme	nts
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Was the report	t issued within the		d turnar	ound time?													
Approved by:			5	Signature:				Come	anv:						г	lale:	



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

Redwood City, CA 94063 819 Striker Avenue, Suito 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 Attention: Avo Avedissian

Client Project ID: Sample Matrix:

Unocal #7376, 4191 1st St., Pleasanton

Soll EPA 5030/8015/8020

Analysis Method: First Sample #: 409-1529

Sampled: Sep 23, 1994 Received: Sep 23, 1994

Reported:

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 Pa	tern:	Gasoline	

Quality Control Data

Report Limit Multiplication Factor: 500 Date Analyzed: 9/28/94 Instrument Identification: HP-2 Surrogate Recovery, %: 116 (QC Limits = 70-130%)

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 Mahager



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

Matrix: Solid

QC Sample Group: 409-1529

Reported:

Oct 4, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	*************************************
			Benzene		
Method:	EDA copo	EDA codo	ED& Anno	EDA nono	
Analyst:	EPA 8020 A. Tuzon	EPA 8020 A. Tuzon	EPA 8020 A. Tuzon	EPA 8020 A. Tuzon	·
Allalyst.	A. Tuzon	W. suzun	A. Tuzon	A. Tuzon	To the second se
MS/MSD					
Batch#:	4091448	4091448	4091448	4091448	
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:	100	108	115	116	
Matrix Spike					
Duplicate %					
Recovery:	100	110	120	120	
Relative %					
Difference:	0.0	1.8	4.2	3.4	
LCS Batch#:	1LCS092894	1LCS092894	1LCS092894	1LCS092894	
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	
LCS %					
Recovery:	100	105	112	114	
•					

SEQUOIA ANALYTICAL, #1271

55-145

MA

Alan B. Kemp Project Manager

% Recovery Control Limits:

Please Note:

47-149

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.

56-140

47-155

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01100/12	v

Approved by:

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

Q 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600

M.	1900	Bates Ave.	Suite LM • Concord,	CA	94520 •	(510)	686-960
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r i	Fact 11115 Montgomen	Suite B • 9	Snokane Wi	4 99206 • (50)	9), 924-9200

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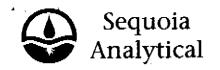
Date:

☐ East 11115 Montgomery,	Suite B • Spokane,	WA 99206 •	(509) 924-9
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Company Name: LE/				Project Name: UNOcon \$ 7376,419/ 157 St., PLESSANTEN						
Address: 2401 STANWE	u Dr.	, \$400		UNOCAL Project Manager: Bob Boust						
City: Concord State		,	94520	Release #:						
Telephone: 602-5704	F.A	X#: 687-06	60L	Site #: 1/5 7376						
Report To: HAIG		Bob Kezen		QC Data: XLevel D (Standard) Level C Level B Level A	Α					
Turnaround 🔲 10 Work Days 🛂 5	Work Days	🛚 3 Work Days	ū	Drinking Water Analyses Requested						
Time:				Waste Water Other						
Client Date/Time Sample I.D. Sampled		# of Cont. Cont. Type	Laborator Sample #		nts					
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Relinquished By:		Date:	Time;	Heceived By Lab: Cheusere Date: 9/23/94 Time: 4 30	pm					
Were Samples Received in Good Con	dition? 💆 Yes	No Sa Sa	imples on Ice	ce? ✓ Yes ☐ No Method of Shipment Page of	_					
	on the Chain			s □ No_if no, what analyses are still needed? No_if no, what was the turnaround time?						

Signature:

Company: _____



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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 Soll

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

Analysis Method: EPA 5030/8015/8020 First Sample #: 409-0870

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 Pat	tern:	Gasoline	

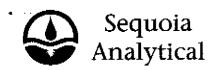
Quality Control Data	
Report Limit Multiplication Factor:	500
Date Analyzed:	9/16/94
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	92

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

Redwood City, CA 94063

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

Sep 15, 1994

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

Client Project ID: Unocal #7376 - 4191 First Street, Pleasanton Sample Descript: Soil Analysis for: Lead First Sample #: 409-0870

Received: Sep 15, 1994® Sep 16, 1994 Extracted: Analyzed: Sep 17, 1994 Reported: Sep 19, 1994

Sampled:

LABORATORY ANALYSIS FOR:								
Sample Number	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

And B. Kennip 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	
ANALITE	Delizelle	I GIGGIIG	-	Aylelles	LOAG	
			Benzene			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K. Anderson	
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						
-	00	100	100	105	107	
% Recovery:	90	102	102	105	107	
Matrix Spike						
Duplicate %						
Recovery:	82	95	95	97	107	
	OL.	00	00	o.	137	
Relative %						
Difference:	9.3	7.1	7.1	7.9	0.0	
nomento con escala de la constancia de la c				sa see oog sa soo soo oo soo soo so soo s	00 0 : 000 000 00 000 001 010 010 000 00	
LCS Batch#:	2LCS091694	2LCS091694	2LCS091694	2LCS091694	BLK091694	
LOU DOWNITT	220001001	20000000	224444 1447		221001007	
Date Prepared:	9/16/94	9/16/94	9/16/94	9/16/94	9/16/94	
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	
_ LCS %						
Recovery:	108	84	97	99	98	
% Recovery						
Control Limits:	55-145	47-149	47-155	56-140	75-125	

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.

SEQUOIA ANALYTICAL, #1271

Alari B. Kemp Project Manager

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					•													
Company Name:	KEI					Pro	ject N	lame:	$u_{\mathcal{N}}$	00	AL:	#1	37	6-l	LEF	15AL	TON	<u> </u>
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Report To: KB		Sample	- +1	AIG-	<u> </u>							⊒ Level			evel B		Level A	
Turnaround ☐ 10 V	Vork Days □ 5 V					Drinki				<u> </u>		Analyse		•				i
Time: ☐ 2 W	ork Days 🔀 V	Vork Day	1 2-8	8 Hours		Wast	_		(Z	11.1	র্জ	7		,			7	
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Were Samples Receiv	ed in Good Condi	ition? 📈 Y	es 🔾 No	Sa Sa	imples on lo	e?) ⁄	Yes	⊔ No	Meti	hod of	Shipm	ent				Page	of	
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To be completed upo 1) Were the anal	n receipt of repoπ lyses requested of	: n the Cha	in of Cu	stody repo	rted? 🗀 Yes	i Ne	o If n	o, wha	it anal	yses a	re still	needed	l?					
Was the report	rt issued within the		ed turnai	round time	? ☐ Yes ☐ N	No If	no, w	hat wa	as the	turnar	ound ti	me?				_		
Approved by:				Signature:					_Com	pany:						Dat	ie:	



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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 #: 409-1608 Sampled: Sep 26, 1994,

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

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting L ìmit mg/kg	Sample I.D. 409-1608 Comp PT2	
Purgeable Hydrocarbons	1.0	930	
Benzehe	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

Guanty 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

Afan B. Kemp Project Manager

4091608.KEL < 1>



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

Redwood City, CA 94063 Concord, CA 94520

Unocal #7376, 4191 First Street, Pleasanton

Lead

(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 Descript: Analysis for: First Sample #:

Soil Lead 409-1608

Sampled: Sep 26, 1994; Sep 26, 1994 Received: Extracted: Sep 26, 1994 3 Analyzed: Sep 26, 1994® Sep 27, 1994® Reported:

LABORATORY ANALYSIS FOR:

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

ள் B. Kemp Project Manager



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

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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: 409-1608

Reported:

Oct 13, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Taluene	Ethyl	Xylenes	Lead	
			Benzene			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
Analyst:	A. Tuzan	A. Tuzon	A. Tuzon	A. Tuzon	J. Dinsay	i
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	9/26/9 4	
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	
r						
Relative %						
Difference:	2.9	3.7	3.5	1.1	4.2	
		dide et de réde transfer de la companya de la comp				
LCS Batch#:	2LCS092694	2LC\$092694	2LC\$092694	2LCS092694	KN\$091894B-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	

SEQUOIA ANALYTICAL, #1271

55-145

% Recovery **Control Limits:**

Alan B Kemp Project Manager

Please Note:

47-149

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.

75-125

56-140

4091608.KEL < 3 >

47-155

UNOCAL 76

O	680 Chesapeake	Drive • Redwood City, 0	CA I	94063	• (415)	364-9600

- □ 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- 1900 Bates Ave., Suile LM Concord, CA 94520 (510) 686-9600
- ☐ 18939 120th Ave., N.E., Suite 101 Bothell, WA 98011 (206) 481-9200
- 🗓 East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200
- ☐ 15055 S.W. Sequoia Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

Company Name: 🏻 🏻 🧸	EI		_	_		Pro	oject N	lame:	UL	1000	JL.	# 7	31	(6-1	PLE	AS A.	<u>0 T U</u>	N.
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To be completed upon 1) Were the analy 2) Was the report Approved by:	ses requested o	n the Cha	ed turnar		? 🗓 Yes 🗀 1	No If	no, w	hat wa	as the		ound t	ime? -				 Da	ıte:	