RECEIVED

3:40 pm, May 13, 2009

Alameda County Environmental Health INCORPORATED

April 15, 1994

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

Attention: Mr. Tim Howard

RE: Unocal Service Station #3135

845 - 66th Avenue Oakland, California

Dear Mr. Howard:

Kaprealian Engineering, Inc. (KEI) has received MDPS Services, Inc's. Quarterly Data Report (MPDS-UN3135-01) dated March 15, 1994, for the above referenced site. Based upon KEI's review of the MPDS report, KEI recommends a modification to the current ground water sampling program.

Analytical results of the ground water samples collected from wells MW5, MW7, MW8, and MW9 for the previous four quarters (one hydrologic cycle) have consistently shown non-detectable concentrations of total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and xylenes, except for TPH as gasoline detected in MW7 at a concentration of 66 ppb on November 11, 1993, and 0.59 ppb of xylenes detected in MW5 on February 11, 1994. Therefore, KEI recommends that the sampling frequency for wells MW5, MW7, MW8, and MW9 be reduced from quarterly to semi-annually.

In summary, all of the wells will continue to be monitored on a monthly basis. Wells MW1 through MW6 and MW10 will be sampled on a quarterly basis, and wells MW7 through MW9 will be sampled on a semi-annual basis.

THE # 3/35 SS BP TOANSMITTAL

Mr. Tim Howard Page 2 April 15, 1994
Unocal Corporation

Tf you have any questions please do not besitate to call me at

If you have any questions, please do not hesitate to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Robert H. Kezerian Project Manager

rhk:jad\TH0415

M-16-12

cc: Cynthia Chapman, Alameda County Health Care Services Lester Feldman, Regional Water Quality Control Board



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

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

(115) 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

Client Project ID: Unocal #3135, 845 66th Ave., Oakland

Matrix: Solid

Attention: Avo Avedissian

QC Sample Group: 404-0160

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

ANALYTE

Lead

Method: Analyst: EPA 6010 J. Dinsay

M\$/MSD

Batch#:

4031417

Date Prepared:

4/6/94

Date Analyzed:

4/6/94

Instrument I.D.#: Conc. Spiked: Liberty 100 50 mg/kg

Matrix Spike

% Recovery:

95

Matrix Spike Duplicate %

Recovery: 89

Relative %

Difference:

6.5

LCS Batch#:

BLK040694

Date Prepared:

4/6/94

Date Analyzed:

4/6/94

Instrument I.D.#:

Liberty 100

LCS %

Recovery:

90

% Recovery

Control Limits:

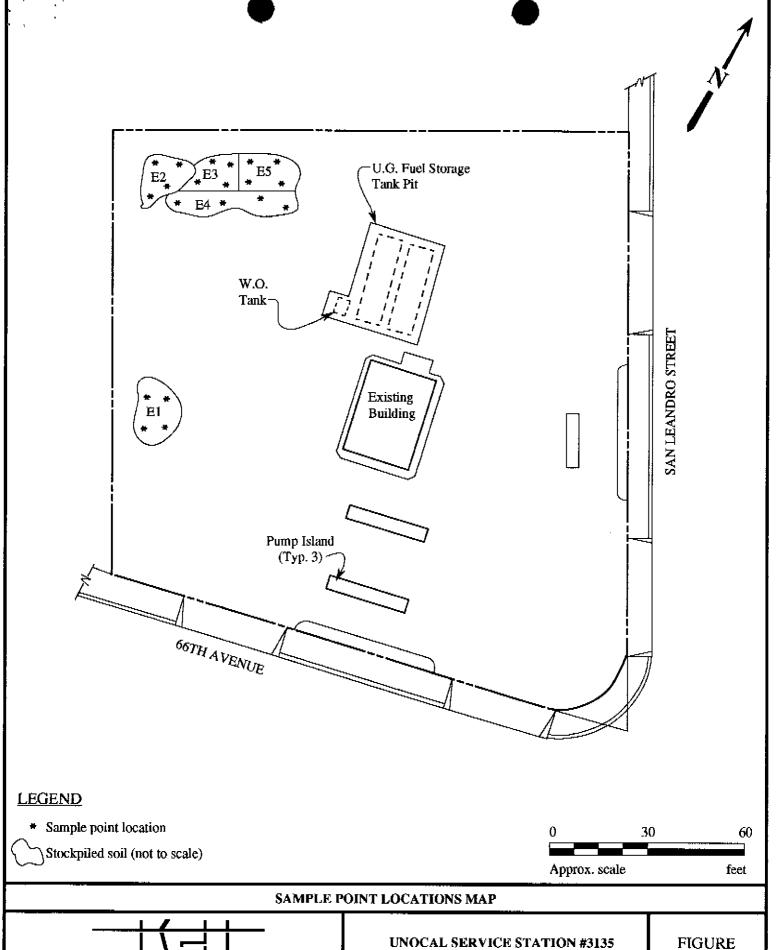
75-125

SEQUOIA ANALYTICAL

Nan-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.

4040160.KEI <2>



UNOCAL SERVICE STATION #313
845 - 66TH AVENUE
OAKLAND, CA
ORPORATED

≀GURI **1**



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:

Uпосаl #3135, 845 66th Ave., Oakland

Soil EPA 5030/8015/8020

First Sample #: 403-1415

Sampled: Mar 30, 1994 Received: Mar 30, 1994

Reported:

Apr 4, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 403-1415 Comp. A	Sample I.D. Method Blank		
Purgeable Hydrocarbons	1.0	170			
Benzene	0.005	N.D.			
Toluene	0.005	0.48			
Ethyl Benzene	0.005	0.098			
Total Xylenes	0.005	4.8			
Chromatogram Pat	tern:	Gasoline			

Quality Control Data

Report Limit Multiplication Factor:	50	1.0
Date Analyzed:	3/30/94	3/30/94
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	106

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



680 Chesapeake Drivo 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 Descript: Analysis for:

First Sample #:

Unocal #3135, 845 66th Ave., Oakland STLC Extract of Soil STLC Lead

403-1415

Received: Extracted: Analyzed: Reported:

Sampled:

Mar 30, 1994 Mar 30, 1994§ Apr 1, 1994

Apr 4, 1994 Apr 4, 1994

LABORATORY ANALYSIS FOR:

STLC Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
403-1415	Comp. A	0.050	51

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

SEQUOIA ANALYTICAL, #1271



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 Client Project ID: Sample Descript: Unocal #3135, 845 66th Ave., Oakland Soil, Comp. A Sampled: Received: Analyzed: Mar 30, 1994 Mar 30, 1994

Attention: Avo Avedissian

Lab Number:

403-1415

Analyzed: 3/31 & 4/4/94 Reported: Apr 4, 1994

CORROSIVITY AND IGNITABILITY

Analyte	Detection Limit	Sample Results		
Corrosivity:	N.A.		7.7	
Ignitability: Flashpoint (Pensky-Martens), °C	N.A.		> 100 °C	

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

SEQUOIA ANALYTICAL, #1276



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

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

Client Project ID: Sample Descript:

Unocal #3135, 845 66th Ave., Oakland Soll, Comp. A Sampled: Received: Analyzed: Mar 30, 1994 Mar 30, 1994

Attention: Avo Avedissian

Lab Number:

403-1415

Analyzed: Apr 4-5, 1994 Reported: Apr 5, 1994

REACTIVITY

Analyte	Detection Limit		Sample Results
Reactivity:			
Sulfide, mg/kg	10		N.D.
Cyanide, mg/kg	0.50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N.D.
Reaction with water	N.A.	***************************************	Negative

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

SEQUOIA ANALYTICAL, #1210

Alan B. Kemp Project Manager

B



680 Chesapeake Drive 1900 Bates Avenue, Suite I. Concord, CA 94520 819 Striker Avenue, Spite 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

Client Project ID:

Unocal #3135, 845 66th Ave., Oakland

Concord, CA 94520

Attention: Avo Avedisslan

QC Sample Group: 403-1415

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	STLC	· · ·
			Benzene	7	Lead	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 7420	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K.V.S.	
MS/MSD						
Batch#:	BLK033094	BLK033094	BLK033094	BLK033094	4031415	
Date Prepared:	3/30/94	3/30/94	3/30/94	3/30/94	4/1/94	
Date Analyzed:	3/30/94	3/30/94	3/30/94	3/30/94	4/4/94	
Instrument I.D.#:	HP-4	HP- 4	HP-4	HP-4	SpectrAA-20	
Conc. Splked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	40 mg/L	
Matrix Spike % Recovery:	100	98	98	98	107	
Matrix Spike Duplicate % Recovery:	105	100	100	103	109	
Relative % Difference:	4.9	2.0	2.0	4.9	1.9	
LCS Batch#:	2LC\$033094	2LC\$033094	2LC\$033094	2LC\$033094	BLK040194	
Date Prepared:	3/30/94	3/30/94	3/30/94	3/30/94	4/1/94	
Date Analyzed:	3/30/94	3/30/94	3/30/94	3/30/94	4/4/94	
Instrument l.D.#:	HP-4	HP-4	HP-4	HP-4	SpectrAA-20	
LCS %						
Recovery:	93	94	95	96	87	
% 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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Redwood City, CA 94063 819 Striker Avenue, Suite 8 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

Client Project ID:

Unocal #3135, 845 66th Ave., Oakland

Matrix:

Solid

Concord, CA 94520 Attention: Avo Avedissian

QC Sample Group: 403-1415

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

Date Analyzed:

4/4/94

3/31/94

Sample #:

Xylene;

4031415

Flashpoint = 29 °C

Sample

Concentration:

25 7.7

Sample

Duplicate

Concentration:

25

7.6

% RPD:

0.0

1.3

% RPD:

Control Limits:

0-30

0-30

SEQUOIA ANALYTICAL, #1271



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:

Unocal #3135, 845 66th Ave., Oakland

Matrix: Solid

QC Sample Group: 403-1415

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Reactive	Reactive
	Cyanide	Sulfide
Method:	SW 846	SW 846
Analyst:	Heider/Wang	P. Penner

Date Analyzed:

4/4/94

4/5/94

Sample #:

9404016-1

9404016-1

Sample Concentration:

N.D.

N.D.

Sample Duplicate

Concentration:

N.D.

N,D.

% RPD:

0.0

0.0

% RPD:

Control Limits:

+20

±20

SEQUOIA ANALYTICAL, #1210

Alan B. Kemp Project Manager

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	680 Chesapeake	Drive • Redwood	City, CA	94063 • (41)	5) 364-960
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- □ 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- ☐ 1900 Bates Ave., Suite LM Concord, CA 94520 (510) 686-9600
- D 18939 120th Ave., N.E., Suite 101 Bothell, WA 98011 (206) 481-9200
- ☐ East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200
- D 15055 S.W. Sequoia Plavy, Suite 110 Portland, OR 97222 (503) 624-9800

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680 Chesapeake Drive 1900 Bates Avenue, Suite I. 819 Striker Avenue, Suite 8

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

Lead

(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 Attention: Avo Avedissian

Client Project ID: Sample Descript: Analysis for: First Sample #: Unocal #3135, 845 66th Ave., Oakland Soil Lead 404-0160 Sampled: Received: Extracted: Analyzed:

Apr 6, 1994 Apr 6, 1994 Apr 6, 1994

Apr 6, 1994

Reported: Apr 7, 1994

LABORATORY ANALYSIS FOR:

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
404-0160	E1	1.0	58
404-0161	E 2	1,0	61
404-0162	E3,E4,E5	1.0	79

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

SEQUOIA ANALYTICAL, #1271

KEI-P88-1203.R16 April 21, 1994

TABLE 2
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Sample</u>	Total <u>Lead</u>
E1	58
E2	61
E3, E4, E5	79

Additional analytical: Composite sample E12345, STLC lead = 3.1. Results are in parts per million (ppm), unless otherwise indicated.

UNOCAL

- © 680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600
- © 819 Striker Ave., Sulte 8 Sacramento, CA 95834 (916) 921-9600
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- □ 18939 120th Ave., N.E., Suite 101 Bothell, WA 98011 (206) 481-9200
- ☐ East 11115 Monigomery, Suite B Spokane, WA 99206 (509) 924-9200
- D 15055 S.W. Sequola Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

Company Name:	aprealic	<u>~</u> E		vcc 21/1	<u> </u>	/NC. F	roject l	Name	: 8	~i <	66	M I	Nac		0	10/0-	. d .	7
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680 Chesapeake Drive 1900 Bates Avenue, Suite I. 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 Descript: Analysis for:

First Sample #:

Unocal #3135, 845 66th Ave., Oakland STLC Extract of Soil

Lead #4040160

Lead

Sampled: Apr 6, 1994 Relogged: Apr 12, 1994 Extracted: Apr 12, 1994 Analyzed: Apr 15, 1994

Reported: Apr 15, 1994

LABORATORY ANALYSIS FOR:

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
4040160-162	E(1-5)	0.050	3.1

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

SEQUOIA ANALYTICAL, #1271



680 Chesapeake Drive 1900 Bates Avenue, Suite 1, 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: Unocal #3135, 845 66th Ave., Oakland

Matrix: STLC Extract of Soil

QC Sample Group:

Reported:

Apr 15, 1994

QUALITY CONTROL DATA REPORT

ANALYTE

Lead

Method:

EPA 7470

Analyst:

K.V.S.

MS/MSD

Batch#:

4040462

Date Prepared:

4/12/94

Date Analyzed:

4/15/94

Instrument I.D.#:

SpectrAA-20

Conc. Spiked:

30 mg/L

Matrix Spike

% Recovery:

104

Matrix Spike

Duplicate %

Recovery:

102

Relative %

Difference:

1..9

LCS Batch#:

BLK041294

Date Prepared: Date Analyzed: 4/12/94 4/15/94

Instrument I.D.#:

SpectrAA-20

LCS %

Recovery:

81

% Recovery

Control Limits:

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.

SEQUOIA/UNOCAL ANALYTICAL RELOG SHEET

PROJECT ID: (PROJ. MANAGER: DATE REC'D: 4-(2-94)	MATRIX: 507 L	DATE RELOG: DATE DUE: DATE SAMP: T.A.T	4-12-94 4-15-94 4-6-94 724	
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CHANGE ANALYSES Add Analyses: Cancel Analyses				
Sample Number	Analyses Com Positi	= FOR STLC Pb		
SAMPLES ON HOLD Add analyse	g		7 (200 m) P 4 (200 m)	
Sample description	Analyses			
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Signature:

Approved by:

Company:

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

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

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Approved by: ...

Was the report issued within the requested turnaround time? □ Yes □ No. If no, what was the turnaround time?

...... Signature:

Company: _

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