



TRANSMITTAL PAGE

DATE: 12/17/96
 TO: JENNIFER EBERLE
ALAMEDA COUNTY
 FROM: HAIG KEVORK

Number of pages (including cover): 12

SUBJECT: UNOCAL #0752 - OAKLAND
800 HARRISON ST.

ATTACHED ARE THE ANALYTICAL RESULTS FOR
 THE SOIL SAMPLES COLLECTED ON 11/26/96.
 A REPORT WILL BE SENT TO YOU SOON.

If any problems occur in receiving, please
 call the number listed below

2401 Stanwell Drive, Suite 400
 Concord, CA 94520
 Tel. 510/602-5100 Fax: 510/687-0602



Sequoia Analytical

680 Chesspake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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Walnut Creek, CA 94598
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FAX (415) 364-9233
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FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Dennis Royce	Client Project ID: Unocal #0752, 600 Harrison St., Oakland Sample Matrix: Soil Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 611-1860	Sampled: Nov 26, 1996 Received: Nov 27, 1996 Reported: Dec 11, 1996
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 611-1860 PD1 (5.5)	Sample I.D. 611-1861 PD2 (3.5)	Sample I.D. 611-1862 PD3 (3)	Sample I.D. 611-1863 PL1 (3)	Sample I.D. 611-1864 PL2 (3.5)
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	0.025	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	0.026	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	0.035	N.D.	N.D.	N.D.	N.D.

Chromatogram Pattern:

Quality Control Data

Report Limit Multiplication Factor:	2.0	1.0	1.0	1.0	1.0
Date Analyzed:	11/30/96	12/10/96	12/10/96	12/10/96	12/10/96
Instrument Identification:	HP-4	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	99	113	103	108	111

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

[Signature]
Alan B. Kemp
Project Manager

6111860.KEL <1>



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

Consultant Company: KEI		Project Name: UNOCAL # 0752 - OAKLAND	
Address: 2401 STANWELL DR. #400		UNOCAL Project Manager: TINA BERRY	
City: CONCORD	State: CA	Zip Code: 94520	AFE #:
Telephone: 602-5100	FAX #: 687-0602	Site #, City, State: 800 HARRISON ST.	
Report To: KEI	Sampler: HAIG KEVORK	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input type="checkbox"/> 10 Work Days <input checked="" type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Drinking Water
Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Waste Water
CODE: <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure	<input checked="" type="checkbox"/> Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments			
						TPH-G	BTEX												
1. PD1(5.5)	11/26/96	SOIL	1	TUBE	6111860	✓	✓												
2. PD2(3.5)			1		6111861	✓	✓												
3. PD3(3)			1		6111862	✓	✓												
4. PL1(3)			1		6111863	✓	✓												
5. PL2(3.5)			1		6111864	✓	✓												
6.																			
7.																			
8.																			
9.																			
10.																			

Relinquished By: <i>[Signature]</i>	Date: 11/24/96	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <i>[Signature]</i>	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <i>[Signature]</i>	Date: 11/27/96	Time: 1500

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

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? _____

2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

12-17-1996 12:32
 5106870602
 KAPREALIAN ENGINEERING
 Laboratory - Yellow
 Laboratory - White
 P.03



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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0752, 800 Harrison St., Oakland
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 611-1850

Sampled: Nov 26, 1996
Received: Nov 27, 1996
Reported: Dec 2, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 611-1850 Stockpile PD1
Purgeable Hydrocarbons	1.0	430
Benzene	0.0050	N.D.
Toluene	0.0050	0.65
Ethyl Benzene	0.0050	0.52
Total Xylenes	0.0050	22
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	100
Date Analyzed:	11/30/96
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	90

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

6111850.KEI <1>





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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Dennis Royce	Client Project ID: Unocal #0752, 800 Harrison St., Oakland Sample Descript: Soil Analysis for: Lead First Sample #: 611-1850	Sampled: Nov 26, 1996 Received: Nov 27, 1996 Digested: Dec 2, 1996 Analyzed: Dec 2, 1996 Reported: Dec 2, 1996
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LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
611-1850	Stockpile PD1	2.5	22

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

SEQUOIA ANALYTICAL, #1271


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Project Manager

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

Consultant Company: **KEI** Project Name: **UNOCAL # 0752 - OAKLAND**
 Address: **2401 STANWELL DR. # 400** UNOCAL Project Manager: **TINA BERRY**
 City: **CONCORD** State: **CA** Zip Code: **94520** AFE #:
 Telephone: **602-5100** FAX #: **687-0602** Site #, City, State: **800 HARRISON ST.**
 Report To: **KEI** Sampler: **HAIG KEVORK** QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days Drinking Water
 Time: 2 Work Days 1 Work Day 2-8 Hours Waste Water
 CODE: Misc. Detect. Eval. Remed. Demol. Closure Other **Analyses Requested**

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTEX	Total Pb	Comments
1. STOCKPILE-PDI	11/26/96	SOIL	1	TUBE	6111850				
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									

Relinquished By: *[Signature]* Date: **11/27/96** Time: **12:00** Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: *[Signature]* Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By Lab: *[Signature]* Date: **11/27/96** Time: **1:300**

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: _____ Page ___ of ___

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? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

12-17-1996 12:34 - mjg 5106870602 KAPREALIAN ENGINEERING P.06



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FAX (916) 921-0100

Kaprealian Engineering, Inc.
2401 Stanwell Dr., Sta. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0752, 800 Harrison St., Oakland
Sample Matrix: Soil
Analysis Method: EPA 6030/8015 Mod./8020
First Sample #: 611-1851

Sampled: Nov 26, 1996
Received: Nov 27, 1996
Reported: Dec 4, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 611-1851 WO1 (9.5)
Purgeable Hydrocarbons	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.

Chromatogram Pattern: ..

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	12/4/96
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	117

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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Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Dennis Royce	Client Project ID: Unocal #0752, 800 Harrison St., Oakland Sample Matrix: Soil Analysis Method: EPA 3550/8015 Mod. First Sample #: 611-1851	Sampled: Nov 26, 1996 Received: Nov 27, 1996 Reported: Dec 4, 1996
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 611-1851 WO1 (9.5)
Extractable Hydrocarbons	1.0	N.D.

Chromatogram Pattern: --

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	12/2/96
Date Analyzed:	12/3/96
Instrument Identification:	HP-3B

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

SEQUOIA ANALYTICAL, #1271


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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Dennis Royce	Client Project ID: Unocal #0762, 800 Harrison St., Oakland Matrix Descript: Soil Analysis Method: SM 5520 E&F (Gravimetric) First Sample #: 611-1851	Sampled: Nov 26, 1996 Received: Nov 27, 1996 Extracted: Dec 2, 1996 Analyzed: Dec 3, 1996 Reported: Dec 4, 1996
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TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
611-1851	WO1 (9.5)	N.D.	1.0

Detection Limits: 50

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

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager

6111851.KEI <3>





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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0752, 800 Harrison St., Oakland
Sample Descript: Soil
Analysis Method: EPA 5030/8010
Lab Number: 611-1851

Sampled: Nov 26, 1996
Received: Nov 27, 1996
Analyzed: Dec 3, 1996
Reported: Dec 4, 1996

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	10	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	10	N.D.
2-Chloroethylvinyl ether.....	10	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	5.0	N.D.
1,3-Dichlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	5.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
cis-1,2-Dichloroethene.....	5.0	N.D.
trans-1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	50	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10	N.D.

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

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager

6111851.KEI <4>





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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0752, 800 Harrison St., Oakland
Sample Descript: Soil, WO1 (9.5)
Lab Number: 611-1851

Sampled: Nov 26, 1996
Received: Nov 27, 1996
Digested: Dec 2, 1996
Analyzed: Dec 2-4, 1996
Reported: Dec 4, 1996

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Lead.....	2.5	N.D.
Cadmium.....	0.50	N.D.
Chromium.....	0.50	53
Nickel.....	1.0	36
Zinc.....	1.0	30

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

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager

6111851.KEI <5>



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P.12

KAPREALIAN ENGINEERING

5106870602

12-17-1996 12:37

Consultant Company: KEI		Project Name: UNOCAL #0752 - OAKLAND	
Address: 2401 STANWELL DR. #400		UNOCAL Project Manager: TINA BERRY	
City: CONCORD	State: CA	Zip Code: 94520	AFE #:
Telephone: 602-5100	FAX #: 687-0602	Site #, City, State: 800 HARRISON ST.	
Report To: KEI	Sampler: HAIG KEVORK	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours

CODE: Misc. Detect. Eval. Remed. Demol. Closure

Analyses Requested

Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTEX	TPH-D	TOG	EPA 8010	Cd, Cr, Pb	Zn, Ni	Comments
1. W01 (9.5)	11/26/96	SOIL	1	TUBE	6111851	✓	✓	✓	✓	✓	✓	✓	TOG 24 Hrs
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By:	Date: 11/27/96	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 11/27/96	Time: 12:00

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

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? _____

2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory