



TRANSMITTAL PAGE

DATE: 9/16/93

TO: Mr. Jeff Skapiro

ALAMEDA COUNTY HEALTH AGENCY

FROM: Haig

Number of Pages (including Cover): 11

SUBJECT: UNOCAL # 6419 - DUBLIN

ATTACHED PLEASE FIND THE ANALYTICAL RESULTS FOR THE SOIL SAMPLE W01 COLLECTED FROM BENEATH THE WASTE OIL TANK PIT, AND THE SOIL SAMPLES ST1 AND ST2 COLLECTED FROM THE SEPTIC TANK PIT.

I WILL FAX YOU THE ANALYTICAL RESULTS FOR THE WATER SAMPLES W1 AND W2 AS SOON AS I GET THE COPIES FROM THE LAB (MAY BE ON 9/20/93).

THANK YOU

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

2401 Starwell Drive, Suite 400
Concord, California 94520
Tel: 510.602.5100 Fax 510.687.0602

SENT BY: SEQUOIA-Concord.

: 9-15-93 : 14:50 :

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SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94620
(510) 886-9800 • FAX (510) 886-9889

Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Ava Avadamejian	Client Project ID: Unocal #9415, 8401 Dublin Blvd., Dublin Sample Matrix: Soil Analysis Method: EPA 8030/8015/8020 First Sample #: 809-0309	Sampled: Sep 8, 1993 Received: Sep 8, 1993 Reported: Sep 15, 1993
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 809-0309 WO1	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	1.0	5.8	
Benzene	0.005	0.050	
Toluene	0.005	N.D.	
Ethyl Benzene	0.005	0.28	
Total Xylenes	0.005	0.020	

Chromatogram Pattern: Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	9/14/93	9/14/93
Instrument Identification:	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	113	107

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

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Alan B. Kemp
Alan B. Kemp
Project Manager



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Kaprealian Engineering, Inc. 2401 Stamford Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avadasian	Client Project ID: Drexel 88418, 8401 Dublin Blvd., Dublin Sample Matrix: Soil Analysis Method: EPA 3550/5015 First Sample #: 309-0305	Sampled: Sep 8, 1993 Received: Sep 8, 1993 Reported: Sep 15, 1993
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 309-0309 W01	Sample I.D. Matrix Blank
Extractable Hydrocarbons	1.0	N.D.	

Chromatogram Pattern: --

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	9/14/93	9/14/93
Date Analyzed:	9/15/93	9/16/93
Instrument Identification:	HP-3B	HP-3B

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

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Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94620 Attention: Avc Avedessian	Client Project ID: Uncon #0416, 6401 Dublin Blvd., Dublin Matrix Descript: Soil Analysis Method: SM 5520 E&F (Gravimetric) First Sample #: 308-0309	Sampled: Sep 8, 1993 Received: Sep 8, 1993 Extracted: Sep 10, 1993 Analyzed: Sep 14, 1993 Reported: Sep 15, 1993
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TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
308-0309	WO1	N.D.

Detection Limits:

50

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

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Kaprealian Engineering, Inc. 2401 Stinwell Dr., Ste. 400 Concord, CA 94620 Attention: Avo Avadesian	Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin Sample Descript: Soil, WO1 Analysis Method: EPA 5030/8010 Lab Number: 309-0309	Sampled: Sep 8, 1993 Received: Sep 8, 1993 Analyzed: Sep 14, 1993 Reported: Sep 15, 1993
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HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit $\mu\text{g}/\text{kg}$	Sample Results $\mu\text{g}/\text{kg}$
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-Dichloroethane	5.0	N.D.
trans-1,2-Dichloroethane	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropane	5.0	N.D.
trans-1,3-Dichloropropane	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethane	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethane	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.

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Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avadessian	Client Project ID: Unocal #0418, 6401 Dublin Blvd., Dublin Sample Descript: Soil, WC1 Lab Number: 308-0309	Sampled: Sep 8, 1993 Received: Sep 8, 1993 Extracted: 9/9 & 9/13/93 Analyzed: 9/9-9/13/93 Reported: Sep 15, 1993
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LABORATORY ANALYSIS

Analyte

Detection Limit
mg/kg

Sample Results
mg/kg

Lead		
Cadmium		
Copper		
Nickel		
Zinc		

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

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Kaprealian Engineering, Inc. 2401 Starwall Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedessian	Client Project ID: Unocal #6418, 6401 Dublin Ave., Dublin Sample Matrix: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 309-0282	Sampled: Sep 7, 1993 Received: Sep 7, 1993 Reported: Sep 14, 1993
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample ID, 309-0282 ST1	Sample ID, 309-0283 ST2
Purgeable Hydrocarbons	1.0	N.D.	N.D.
Benzene	0.005	N.D.	N.D.
Toluene	0.005	N.D.	N.D.
Ethyl Benzene	0.005	N.D.	N.D.
Total Xylenes	0.005	N.D.	N.D.
Chromatogram Pattern:	-	-	-

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	9/10/93	9/10/93
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	89	88

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

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Kaprealian Engineering, Inc. 2401 Stanwell Cr., Ste. 400 Concord, CA 94520 Attention: Avo Avedessian	Client Project ID: Unocal 98416, 8401 Dublin Blvd., Dublin Sample Descript: Soil Analyte for: Lead First Sample #: 309-0282	Sampled: Sep 7, 1993 Received: Sep 7, 1993 Extracted: Sep 8, 1993 Analyzed: Sep 9, 1993 Reported: Sep 14, 1993
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LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
309-0282	ST1	0.25	6.8
309-0283	ST2	0.25	6.6

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

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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Ava Avadasian	Client Project ID: Matrix Descript: Analysis Method: First Sample #:	Unocal #6419, 6401 Dublin Blvd., Dublin Soil SM 6520 E&F (Gravimetric) #9080282	Sampled: Received: Extracted: Analyzed: Reported:	Sep 7, 1993 Sep 15, 1993 Sep 15, 1993 Sep 15, 1993 Sep 18, 1993
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TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
308-0282	ST1	N.D.
308-0283	ST2	N.D.

Detection Limits: 50

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

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