

8. Contact Person for Investigation

Name JOE COMSTOCK Title CONSTRUCTION ENG. - UNOCAL  
 Phone (916) 446-4981

9. Total No. of Tanks at facility 3

10. Have permit applications for all tanks been submitted to this office?  
 Yes [] No []

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Transporter

Name H & H SHIPPING EPA I.D. No. CAD004771168  
 Address 220 CHINA BASIN RD.  
 City SAN FRAN. State CA Zip 94107

b) Rinsate Transporter

Name H & H SHIPPING EPA I.D. No. \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

c) Tank Transporter

Name H & H SHIPPING EPA I.D. No. \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

d) Tank Disposal Site

Name LEVIN METALS EPA I.D. No. \_\_\_\_\_  
 Address 600 S. 4TH STREET  
 City RICHMOND State CA Zip \_\_\_\_\_

e) Contaminated Soil Transporter (FOR CLASS I)

Name DILLER TRUCKING INC EPA I.D. No. CAP9816 92809  
 Address ROUTE 1 BOX 73  
 City BYRON State CA Zip 94514

12. Sample Collector

Name \_\_\_\_\_  
 Company KAPREALIAN ENGINEERING INC.  
 Address 638 1/2 FIRST ST.  
 City BENICIA state CA zip 94510 Phone (707) 746-6915

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
10,000 GA.	UNLEADED GASOLINE		
10,000GA.	UNLEADED GASOLINE		
550GA.	WASTE OIL		

14. Have tanks or pipes leaked in the past? Yes [ ] No [ ]

If yes, describe. UNKNOWN

15. NFPA methods used for rendering tank inert? Yes [  ] No [ ]

If yes, describe. 15 LBS. DRY ICE PER 1000 GALS.  
OF TANK CAPACITY

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name SEQUOIA ANALYTICAL  
 Address 680 CHESAPEAKE DR.  
 City REDWOOD CITY State CA. zip 94063  
 State Certification No. 145

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
GASOLINE TPH-E BTX +E		GC/FID 5030 8020 OR 8240
WASTE OIL TPH-D TPH (E) BTX +E CHLORINATED HC'S TO G SPH/VOL'S		GC/FID 3550 GC/FID 5030 8020 OR 8240 8010 OR 8240 503 D+E 8270

18. Submit Site Safety Plan

19. Workman's Compensation: Yes  No

Copy of Certificate enclosed? Yes  No

Name of Insurer R. C. FISHER + CO.

20. Plot Plan submitted? Yes  No

21. Deposit enclosed? Yes  No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Signature of Site Owner or Operator

Name (please type) LORE R. AUSTIN - AGENT FOR UNOCAL ROBERT H. LEE & ASSOC.

Signature Lore R Austin

Date 7-11-89

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).
5. A copy of your approved plan must be sent to the landowner.
6. Triple rinse means that:
  - a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.
  - b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.
  - c) Tank should be labelled as "triple rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.



INSTRUCTIONS2. SITE ADDRESS

Address at which closure or modification is taking place.

5. EPA I.D. NO.

This number may be obtained from the State Department of Health Services, 916/324-1781.

6. CONTRACTOR

Prime contractor for the project.

7. OTHER

List professional consultants here.

12. SAMPLE COLLECTOR

Persons who are collecting samples.

13. SAMPLING INFORMATION

Historic contents - the principal product(s) used in the last 5 years.

Material sampled - i.e., water, oil, sludge, soil, etc.

16. LABORATORIES

Laboratories used for chemical and geotechnical analyses.

17. CHEMICAL METHODS:

All sample collection methods and analyses should conform to EPA or DHS methods.

Contaminant - Specify the chemical to be analyzed.

Sample Preparation Method Number - The means used to prepare the sample prior to analyses - i.e., digestion techniques, solvent extraction, etc. Specify number of method and reference if not an EPA or DHS method.

Analysis Method Number - The means used to analyze the sample - i.e., GC, GC-MS, AA, etc. Specify number of method and reference if not a DHS or EPA method.

NOTE:

Method Numbers are available from certified laboratories.

18. SITE SAFETY PLAN

A plan outlining protective equipment and additional specialized personnel in the event that significant amount of hazardous materials are found. The plan should consider the availability of respirators, respirator cartridges, self-contained breathing apparatus (SCBA) and industrial hygienists.

July 11, 1989

SITE SAFETY PLAN  
UNOCAL SERVICE STATION NO. 6034  
4700 FIRST STREET  
LIVERMORE, CALIFORNIA  
RHL JOB NO. 1426

SITE SAFETY PLAN - GASOLINE TANK REMOVAL

1. For underground gasoline tanks, arrange for disposal of remaining liquid contents with authorized disposal service.
2. Drain and flush all piping into tank or appropriate container.
3. Remove all flammable liquid from the tank. Use hand pump to remove the bottom few inches of liquid.
4. Uncover tank and disconnect attached piping.
5. Prior to complete excavation and tank removal the tanks must be res-purged by the following method.

Preferred method for conditioning tank:

Make vapors inert by adding 15 lbs. of dry ice (carbon dioxide) per 1,000 gal. of tank capacity.

The vapors in the tank will be made inert by adding solid carbon dioxide (dry ice) in the amount of 15 lbs. per 1,000 gal. of tank capacity. The dry ice should be crushed and distributed evenly over the greatest possible area to secure rapid evaporation. As the dry ice vaporizes, flammable vapors will flow out of the tank and may surround the area. Hence, observe all normal safety precautions regarding flammable vapors. Make sure that all of the dry ice has vaporized.

After the tank has been freed of vapors and verified to below 10 percent of the lower explosive level using calibrate gas detector, and prior to moving t\from the site, plug or cap all holes. Use threaded (boiler) plugs to plug any corrosion leak holes. One tank fitting plug should have a 1/8" vent hole to prevent the tank from being subjected to an excessive pressure differential caused by extreme temperature changes.

Page Two  
July 11, 1989

SITE SAFETY PLAN - GASOLINE TANK REMOVAL

6. Temporarily plug all tank openings, complete excavation and remove the tank; placing it in a secure location. Block the tank to prevent movement. USE EXTREME CAUTION DURING REMOVAL OPERATION.
7. Remove tanks and secure at grade.
8. No fiberglass or steel tank shall be reused. Render all tanks useless after removing from site.
9. As an added precaution, regardless of condition, the tanks shall be labeled adjacent to the fill opening in legible letters as follows:

"TANK HAVE CONTAINED FLAMMABLE LIQUIDS  
NOT GAS-FREE  
NOT SUITABLE FOR FOOD OR DRINKING WATER"

10. Assure tank disposal is in accordance with governing regulations.
11. Company Representative and Contractor shall inspect open excavation for evidence of product leakage.
12. the Contractor shall have the following items on site:
  - a) Fire extinguishers
  - b) LEL meter
  - c) First Aid Kit
  - d) Hard hat and protective clothing for all personnel
  - e) Access to an Industrial Hygienist
13. When the site is left unattended, surround the excavation with a 6"-8" high removable chain link fence.

EMERGENCY PLAN

In the event of an accident, the contractor shall proceed with the following steps:

1. Dial 911 and provide the following information:




**KAPREALIAN ENGINEERING, INC.**

Consulting Engineers

P. O. BOX 215

BENICIA, CA 94510

(707) 746-6915

FAX #: (707) 746-5581

TRANSMITTAL PAGE

 DATE: 8-4-89

Alameda County Health Agency

 TO: ATTN: DENNIS BYRNE

 FROM: DICK BRADISH

 Number of Pages  
 (including cover): 13

 SUBJECT: Unacc. Leachate (2706 Fifth St.)

- Please find attached site plan showing sample pt. location, laboratory analyses and Chain of Custody documentation for tank pit samples taken 8-2-89 @ above ref. site.
- Sample depths indicated on site plan.
- Groundwater encountered @ 7.5 ft, while excavating further @ sample pt A3.

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

- We understand that we have your approval to set new tanks following completion of the following:
  1. Excavate the tank tank pit to sample depth, i.e., 15 ft.
  2. In addition, excavate the area around sample point A3 to 1 foot below groundwater.

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
80 SWAN WAY, ROOM 200  
OAKLAND, CA 94621  
PHONE NO. 415/271-4320

JULY 11, 1989

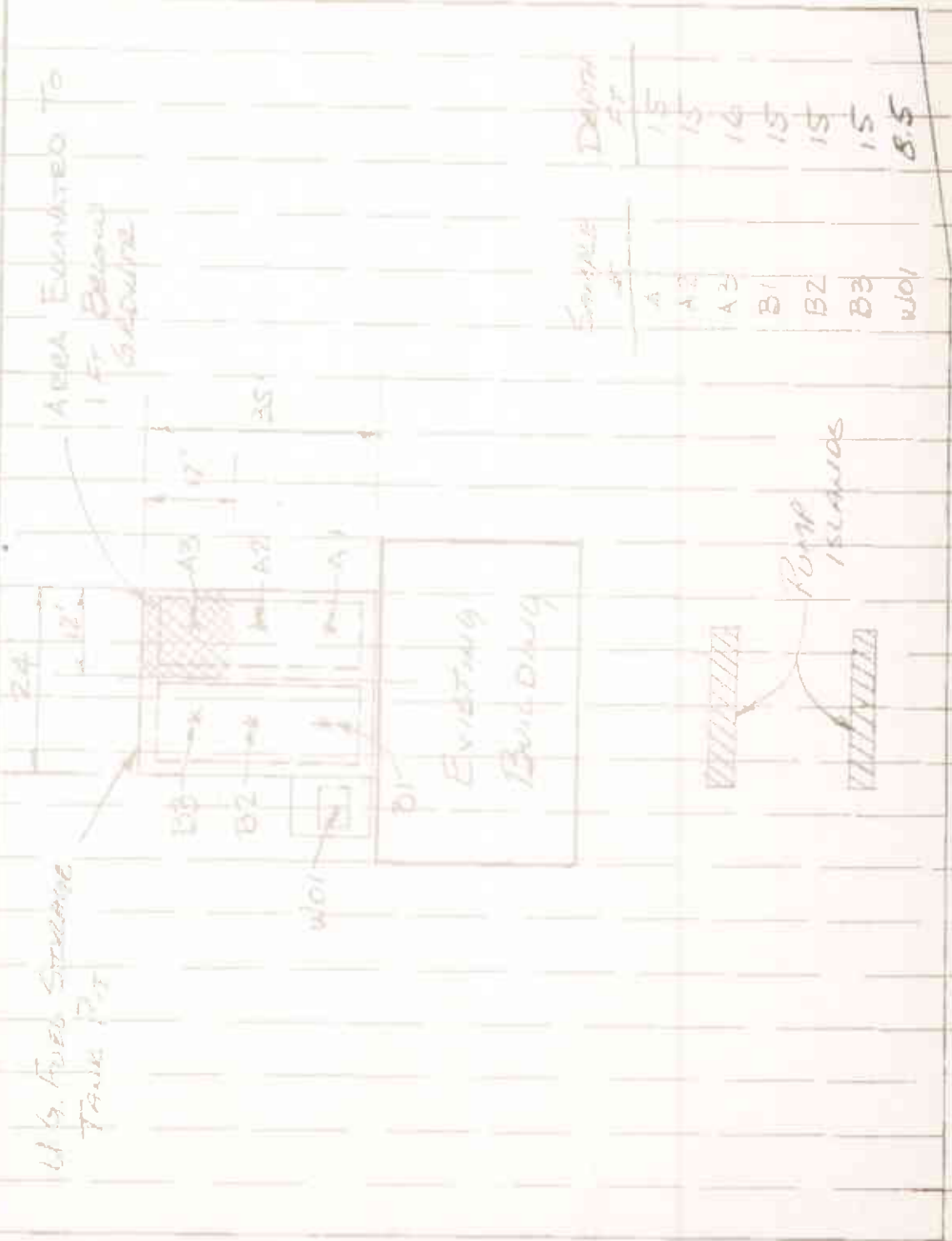
UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name SPRINGTOWN UNION 76 55#6034  
Business Owner KEN PEACOCK
2. Site Address 4700 FIRST STREET  
City LIVERMORE Zip 94550 Phone (415) 443-8866
3. Mailing Address (SAME AS ABOVE)  
City \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_
4. Land Owner UNOCAL OIL CO.  
2175 N. CALIFORNIA BLVD. #650  
Address WALNUT CREEK City, State CA Zip 94596
5. EPA I.D. No. CAD 982 057 812
6. Contractor PARADISO CONSTRUCTION  
Address 9220 G STREET  
City OAKLAND Phone (415) 562-5511  
License Type A, B, C ID# \_\_\_\_\_
7. Consultant R. H LEE AND ASSOC (AGENT FOR UNOCAL)  
Address 1337 HOWE AVE. #211  
City SACRAMENTO Phone 646-4003

• We understand that monitoring wells will be required due to the level of soil contamination found. These will be installed upon completion of the tank replacement project.

• The waste oil tank pit will be excavated to a depth of 9 ft.

UNOCAL - LIVERMORE  
4700 FIRST ST.



U.S. FUEL STORAGE  
TANK P.I.

FIRST STREET



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 384-9500 • FAX (415) 384-9233

Kaprealian Engineering, Inc. P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.	Client Project ID: Unocal, Livermore, 1st St./Hwy 880 Matrix Descript: Soil Analysis Method: EPA 8030/8015/8020 First Sample #: 908-0170	Sampled: Aug 2, 1989 Received: Aug 3, 1989 Analyzed: Aug 3, 1989 Reported: Aug 4, 1989
--	---	---

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
908-0170	A1	2.1	N.D.	N.D.	N.D.	0.21
908-0171	A2	1.6	N.D.	N.D.	N.D.	N.D.
908-0172	A3	390	1.7	46	18	80
908-0173	B1	N.D.	N.D.	N.D.	N.D.	0.10
908-0174	B2	N.D.	N.D.	N.D.	N.D.	N.D.
908-0175	B3	2.3	N.D.	N.D.	0.12	0.30

Detection Limits:	1.0	0.05	0.1	0.1	0.1
-------------------	-----	------	-----	-----	-----

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton  
Laboratory Director





# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94810

(415) 678-9100 (707) 746-8013

### CHAIN OF CUSTODY

SAMPLER: R.M. Bessick DATE/TIME OF COLLECTION: 8-2-89 TURN AROUND TIME: 22 HR  
 (Signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER: Unusual - Swimmer  
First St & Hwy 580

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>A1</u>	<u>TPH-G &amp; BTXE</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>A2</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>A3</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>B1</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>B2</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>B3</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
<u>R.M. Bessick</u>	<u>9:50 am 8/3/89</u>	<u>Tom M. Cain</u>	<u>9:50 8/3/89</u>
<u>Tom M. Cain</u>	<u>11:00 8/3/89</u>	<u>Rm Ac</u>	<u>8/3/89 11:00 am</u>

\* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: \_\_\_\_\_

**NOTE:** IF REGULAR TURNAROUND, SOIL ANALYSES MUST BE COMPLETED WITHIN 14 CALENDAR DAYS OF SAMPLE COLLECTION. WATER ANALYSES MUST BE COMPLETED WITHIN 7 CALENDAR DAYS FOR BTX&E (UNLESS SAMPLE HAS BEEN PRESERVED), AND 14 CALENDAR DAYS FOR TPH AS GASOLINE; EXTRACT TPH AS DIESEL WITHIN 14 CALENDAR DAYS.



# SEQUOIA ANALYTICAL

660 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9800 • FAX (415) 364-9233

Kaprealian Engineering, Inc. P.O. Box 813 Berkeley, CA 94510 Attention: Merdo Kaprealian, P.E.	Client Project ID: Unocal, Livermore, 1st St/Hwy 580 Matrix Descript: Soil Analysis Method: SM 503 D&E (Gravimetric) First Sample #: 908-0178	Sampled: Aug 2, 1989 Received: Aug 3, 1989 Extracted: Aug 4, 1989 Analyzed: Aug 4, 1989 Reported: Aug 4, 1989
---	--	---

## TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
908-0178	WO1	N.D.

Detection Limits:	30.0
-------------------	------

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

SEQUOIA ANALYTICAL

Arthur G. Burton  
Laboratory Director



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 354-9800 • FAX (415) 384-9233

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, Livermore, 1st St/Hwy 580	Sampled:	Aug 2, 1989
P.O. Box 913	Matrix Descript:	Sol	Received:	Aug 3, 1989
San Jose, CA 94510	Analysis Method:	EPA 3550/8015	Extracted:	Aug 4, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #:	008-0176	Analyzed:	Aug 4, 1989
			Reported:	Aug 4, 1989

## TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
008-0176	W01	1.4

Detection Limits: 1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton  
Laboratory Director



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

Kaprelian Engineering, Inc.	Client Project ID: Unocal, Livermore, 1st St/Hwy 580	Sampled: Aug 2, 1989
P.O. Box 913	Sample Descript.: Soil, WO1	Received: Aug 3, 1989
Benicia, CA 94510	Analysis Method: EPA 6030/6015/6020	Analyzed: Aug 3, 1989
Attention: Mardo Kaprelian, P.E.	Lab Number: 908-0176	Reported: Aug 4, 1989

## TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 6015/6020)

Analyte	Detection Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Low to Medium Boiling Point Hydrocarbons.....	1.0	N.D.
Benzene.....	0.05	N.D.
Toluene.....	0.1	N.D.
Ethyl Benzene.....	0.1	N.D.
Xylenes.....	0.1	N.D.

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton  
Laboratory Director



# SEQUOIA ANALYTICAL

650 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9500 • FAX (415) 364-9233

Kaprealian Engineering, Inc.  
P.O. Box 913  
Bericia, CA 94510  
Attention: Marco Kaprealian, P.E.

Client Project ID: Unocal, Livermore, 1st St/Hwy 580  
Sample Descript: Soil, WD1  
Analyse Method: EPA 5030/8010  
Lab Number: 905-0176

Sampled: Aug 2, 1989  
Received: Aug 3, 1989  
Analyzed: Aug 4, 1989  
Reported: Aug 4, 1989

## 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	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25.0	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10.0	N.D.
1,3-Dichlorobenzene	10.0	N.D.
1,4-Dichlorobenzene	10.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
Total 1,2-Dichloroethane	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	10.0	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	10.0	N.D.

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

SEQUOIA ANALYTICAL

Arthur G. Burton  
Laboratory Director





# SEQUOIA ANALYTICAL

530 Chesapeake Drive • Redwood City, CA 94063  
 (415) 354-9600 • FAX (415) 354-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Livermore, 1st St/Hwy 580	Sampled: Aug 2, 1989
P.O. Box 913	Sample Descript: Soil, WC1	Received: Aug 3, 1989
Benics, CA 94510	Analysis Method: EPA 8270	Extracted: Aug 3, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 908-0175	Analyzed: Aug 4, 1989
		Reported: Aug 4, 1989

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene	100.0	N.D.
Acenaphthylene	100.0	N.D.
Aniline	100.0	N.D.
Anthracene	100.0	N.D.
Benzidine	2,500.0	N.D.
Benzoic Acid	500.0	N.D.
Benzo(a)anthracene	100.0	N.D.
Benzo(b)fluoranthene	100.0	N.D.
Benzo(k)fluoranthene	100.0	N.D.
Benzo(g,h,i)perylene	100.0	N.D.
Benzo(a)pyrene	100.0	N.D.
Benzyl alcohol	100.0	N.D.
Bis(2-chloroethoxy)methane	100.0	N.D.
Bis(2-chloroethyl) ether	100.0	N.D.
Bis(2-chloroisopropyl) ether	100.0	N.D.
Bis(2-ethylhexyl) phthalate	500.0	N.D.
4-Bromophenyl ether	100.0	N.D.
Buryl benzyl phthalate	100.0	N.D.
4-Chloroaniline	100.0	N.D.
2-Chloronaphthalene	100.0	N.D.
4-Chloro-3-methylphenol	100.0	N.D.
2-Chlorophenol	100.0	N.D.
4-Chlorophenyl phenyl ether	100.0	N.D.
Chrysene	100.0	N.D.
Dibenz(a,h)anthracene	100.0	N.D.
Dibenzofuran	100.0	N.D.
Dih-n-butyl phthalate	500.0	N.D.
1,3-Dichlorobenzene	100.0	N.D.
1,4-Dichlorobenzene	100.0	N.D.
1,2-Dichlorobenzene	100.0	N.D.
3,3-Dichlorobenzidine	100.0	N.D.
2,4-Dichlorophenol	500.0	N.D.
Diethyl phthalate	100.0	N.D.
2,4-Dimethylphenol	100.0	N.D.
Dimethyl phthalate	100.0	N.D.
4,6-Dinitro-2-methylphenol	500.0	N.D.
2,4-Dinitrophenol	500.0	N.D.



# SEQUOIA ANALYTICAL

880 Chesapeake Drive • Redwood City, CA 94063  
 (415) 364-9800 • FAX (415) 384-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Livermore, 1st St/Hwy 580	Sampled: Aug 2, 1989
P.O. Box 913	Sample Descript: Sol, WC1	Received: Aug 3, 1989
Benicia, CA 94510	Analysis Method: EPA 8270	Extracted: Aug 3, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 908-0178	Analyzed: Aug 4, 1989
		Reported: Aug 4, 1989

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
2,4-Dinitrotoluene	100.0	N.D.
2,6-Dinitrotoluene	100.0	N.D.
Di-N-octyl phthalate	100.0	N.D.
Fluoranthene	100.0	N.D.
Fluorene	100.0	N.D.
Hexachlorobenzene	100.0	N.D.
Hexachlorobutadiene	100.0	N.D.
Hexachlorocyclopentadiene	100.0	N.D.
Hexachloroethane	100.0	N.D.
Indeno(1,2,3-cd)pyrene	100.0	N.D.
Isophorone	100.0	N.D.
2-Methylnaphthalene	100.0	N.D.
2-Methylphenol	100.0	N.D.
4-Methylphenol	100.0	N.D.
Naphthalene	100.0	N.D.
2-Nitroaniline	100.0	N.D.
3-Nitroaniline	100.0	N.D.
4-Nitroaniline	100.0	N.D.
Nitrobenzene	100.0	N.D.
2-Nitrophenol	100.0	N.D.
4-Nitrophenol	500.0	N.D.
N-Nitrosodiphenylamine	100.0	N.D.
N-Nitroso-di-N-propylamine	100.0	N.D.
Pentachlorophenol	500.0	N.D.
Phenanthrene	100.0	N.D.
Phenol	100.0	N.D.
Pyrene	100.0	N.D.
1,2,4-Trichlorobenzene	100.0	N.D.
2,4,5-Trichlorophenol	100.0	N.D.
2,4,6-Trichlorophenol	100.0	N.D.

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

SEQUOIA ANALYTICAL

Arthur G. Burton  
 Laboratory Director