

MPDS-UN5366-13 March 11, 1997

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

Attention: Mr. Robert A. Boust

RE: Quarterly Data Report

Former Unocal Service Station #5366 7375 Amador Valley Boulevard

Dublin, California

Dear Mr. Boust:

This data report presents the results of the most recent quarter of monitoring and sampling at the referenced site by MPDS Services, Inc.

## RECENT FIELD ACTIVITIES

Unocal's monitoring well MW-5 was monitored and sampled this quarter as indicated in Table 1. Oxygen Release Compound (ORC®) filter socks were present in well MW5. Prior to sampling, monitoring well MW5 was checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations are summarized in Table 1.

Ground water samples were collected from Unocal's well MW5 on February 12 and 13, 1997. The well was not purged prior to sampling. Dissolved oxygen concentrations were also measured and are presented in Table 4. The water samples were collected using a clean Teflon bailer and were decanted into clean VOA vials and/or a one-liter amber bottle, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. MPDS Services, Inc. transported the purged ground water to the Unocal Refinery located in Rodeo, California, for treatment and discharge to San Pablo Bay under NPDES permit.

### ANALYTICAL RESULTS

The ground water samples collected from Unocal's well MW5 were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected to date are summarized in Tables 2 and 3. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene detected in the ground water sample collected from Unocal well MW5 this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

## **LIMITATIONS**

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

# **DISTRIBUTION**

A copy of this report should be sent to Ms. Eva Chu of the Alameda County Health Care Services Agency.

If you have any questions regarding this report, please do not hesitate to call Mr. Joel G. Greger at (510) 602-5120.

JOEL G. GREGER
No. EG 1633
CERTIFIED
ENGINEERING
GEOLOGIST

Sincerely,

MPDS Services, Inc.

Haig (Gary) Tejirian Senior Staff Geologist

Joel G. Greger, C.E.G. Senior Engineering Geologist

License No. EG 1633 Exp. Date 8/31/98

Attachments:

Tables 1 through 4

Location Map Figures 1 & 2

Laboratory Analyses

Chain of Custody documentation

cc: Robert H. Kezerian, Kaprealian Engineering, Inc.

MPDS-UN5366-13 March 11, 1997 Page 1 of 6

Table 1
Summary of Monitoring Data
Unocal Service Station Wells

Well#	Ground Water Elévation (féet)	Depth to Water (feet) •	Total Well Depth (feer)•	Product Thickness (feet)	Sheen	Water Purged (gallons)
	(Monitored	on February 12	, and Sampled o	n February 12 a	nd 13, 1997)	
MW5	328.78	7.18	20.01	0	No	0
		(Monitored and	Sampled on Nov	vember 22, 1996	)	
MW5	325.80	10.16	20.02	0	No	0
		(Monitored an	nd Sampled on A	ugust 23, 1996)		
MW5	325.94	10.02	19.99	0	No	0
		(Monitored	and Sampled M	(ay 23, 1996)		
MW5	327.31	8.65	20.02	0	No	8

Well#	Top of Casing Elevation (feet)**
MW5	335.96

- ♦ The depth to water level and total well depth measurements were taken from the top of the well casing.
- \* The elevation of the top of the well casing was surveyed relative to Mean Sea Level (MSL), per the County of Alameda Benchmark, standard brass disk in the westerly center island of Amador Valley Boulevard at Village Parkway, 15 feet from the nose and 0.8 feet from the northerly curb, stamped "VL PK AM VY, 1977" (elevation = 337.40 feet MSL).

Table 2
Summary of Laboratory Analyses
Water

Well#	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	MTBE
MWI	4/29/88	10,000	960	17	870	1,500	
112 11 2	7/25/88	6,100	170	2.1	94	94	
	10/28/88	5,200	150	ND	250	12	
	1/26/89	1,900	240	1.8	81	30	
	4/28/89	1,000	97	0.8	170	24	
	7/27/89	1,900	130	6.3	ND	68	
	10/20/89	ND	ND	ND	ND	ND	
	2/6/90	2,700	170	ND	350	29	
	5/18/90	2,000	140	1.8	460	19	
	8/15/90	2,200	160	ND	570	45	
	11/14/90	2,000	110	0.52	410	16	
	2/14/91	1,900	150	2.9	340	43	
	5/15/91	2,100	220	ND	360	27	
	8/12/91	1,100	68	2.6	210	9.3	
	11/13/91	860	40	ND	11	2.5	
	2/25/92	3,900	500	ND	450	400	<del>-</del> -
	5/22/92	2,500	120	ND	230	37	
	8/12/92	1,700	51	ND	93	21	
	11/10/92	1,100	49	ND	71	21	
	2/10/93	3,000	230	ND	340	200	
	5/10/93	1,600	39	0.4	25	3.3	<b>-</b> -
	8/12/93	1,000	46	ND	29	6.3	
	11/11/93	350	19	2.5	2.7	3.4	
	2/11/94	970	40	3.2	2.8	15	
	5/17/94	1,000	41	ND	49	32	
	8/25/94	650	10	1.6	7.7	2.1	
	11/18/94	820	21	ND	19	6.6	
	2/15/95	2,400	61	ND	87	34	
	6/13/95	1,300	28	ND	15	ND	<del></del>
	8/25/95	530	16	ND	2.2	13	<b>†</b>
	11/28/95	650	15	ND	21	6.7	††
	2/26/96	1,900	40	ND	84	46	110
	5/23/96	WELL WAS I	DESTROYED I	N MAY 1996.			
MW2	4/29/88	170	2.7	0.6	ND	13	
	7/25/88	ND	ND	ND	ND	ND	
	10/28/88	ND	ND	ND	ND	ND	
	1/26/89	ND	ND	ND	ND	ND	
	4/28/89	ND	ND	ND	ND	ND	
	7/27/89	ND	ND	ND	ND	ND	~-
	10/20/89	ND	ND	ND	ND	ND	
	2/6/90	ND	ND	ND	ND	ND	

Table 2
Summary of Laboratory Analyses
Water

Well#	Date	TPH as Gasoline	Benzenc	Toluene	Ethyl- Benzene	Xylenes	MTBE
MW2	5/18/90	ND	ND	ND	ND	ND	
(Cont.)	5/22/92	ND	ND	ND	ND	ND	
(Com.)	2/10/93	ND	ND	ND	ND	ND	
	2/11/94	ND	ND	ND	ND	ND	<b></b>
	5/17/94	SAMPLED A		1,2			
	2/15/95	ND	ND	ND	ND	ND	<b></b>
	2/26/96	ND	ND	ND	ND	ND	
	5/23/96		DESTROYED I				
MW3	4/29/88	ND	ND	ND	ND	ND	
	7/25/88		ND	ND	ND	ND	
	10/28/88		ND	ND	ND	ND	
	1/26/89	ND	ND	ND	ND	ND	
	4/28/89	880	9,6	9.7	19	12.7	
	5/22/89	ND	ND	ND	ND	ND	
	7/27/89	ND	ND	ND	ND	ND	
	10/20/89	ND	ND	ND	0.38	ND	
	2/6/90	ND	ND	ND	ND	ND	
	5/18/90	ND	ND	ND	ND	ND	
	2/10/93	ND	ND	ND	ND	ND	
	2/11/94	ND	ND	ND	ND	ND	
	5/17/94	SAMPLED A	NNUALLY				
	2/15/95	ND	ND	ND	ND	ND	
	2/26/96	ND	ND	ND	ND	ND	
	5/23/96	WELL WAS I	DESTROYED I	N MAY 1996.			
MW4	4/29/88	ND	ND	ND	ND	ND	
	7/25/88	ND	ND	ND	ND	ND	
	10/28/88	ND	ND	ND	ND	ND	
	1/26/89	ND	0.67	ND	ND	ND	
	4/28/89	ND	0.3	ND	ND	ND	
	7/27/89	ND	0.34	ND	ND	ND	
	10/20/89	ND	ND	ND	ND	ND	
	2/6/90	ND	ND	ND	ND	ND	
	5/18/90	ND	ND	ND	ND	ND	
	2/10/93	ND	ND	ND	ND	ND	
	2/11/94	ND	ND	ND	ND	ND	
	5/17/94	SAMPLED A	NNUALLY				
	2/15/95	ND	ND	ND	ND	ND	
	2/26/96	ND	ND	ND	ND	ND	
	5/23/96	WELL WAS I	DESTROYED I	IN MAY 1996.			

Table 2
Summary of Laboratory Analyses
Water

Well#	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	MTBE
MW5	2/11/94	18,000	2,400	140	920	3,100	
	5/17/94	20,000	4,300	ND	2,300	130	
	8/25/94	9,400	3,800	ND	2,200	150	
	11/18/94	18,000	2,400	52	1,600	51	
	2/15/95	16,000	2,700	ND	1,700	50	
	6/13/95	14,000	2,200	ND	2,200	ND	
	8/25/95	3,100	43	ND	590	8.4	†
	11/28/95	6,400	320	ND	720	ND	††
	2/26/96	2,800	75	ND	160	ND	74
	5/23/96	71	7.9	ND	3.4	ND	43
	8/23/96	350	22	1.0	13	3.0	56
	11/22/96	380	6.0	0.98	ND	ND	33
	2/12/97	ND	3.4	ND	0.97	ND	48

- † Sequoia Analytical Laboratory has potentially identified the presence of MTBE at reportable levels in the ground water samples collected from this well.
- 77 Sequoia Analytical Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 mg/L in the sample collected from this well,
- ND = Non-detectable.
  - -- Indicates that analysis was not performed.

Results are in micrograms per liter ( $\mu$ g/L), unless otherwise indicated.

Note: The detection limit for results reported as ND by Sequoia Analytical Laboratory is equal to the stated detection limit times the dilution factor indicated on the laboratory analytical sheets.

Prior to August 1, 1995, the total purgeable petroleum hydrocarbon (TPH as gasoline) quantification range used by Sequoia Analytical Laboratory was C4 - C12. Since August 1, 1995, the quantification range used by Sequoia Analytical Laboratory is C6 - C12.

Laboratory analyses data prior to February 11, 1994 were provided by Kaprealian Engineering, Inc.

Table 3
Summary of Laboratory Analyses
Water

Well#	Date	TPH as Diesel	Total Oil & Grease (mg/L)	EPA 8010 Constituents
MW1	5/10/93	730*	<del></del>	
MW3	4/29/88	ND		ND
	7/25/88	ND		ND
	10/28/88	ND		ND
	1/26/89	ND		ND
	4/28/89	72	ND	ND
	5/22/89			
	7/27/89	ND	1.6	ND
	10/20/89	ND	2.5	ND
	2/6/90	ND	ND	ND
	5/18/90	ND	ND	ND
	2/10/93	200	ND	
	2/11/94	ND	ND	
	2/15/95	ND	ND	
	2/26/96	ND	ND	
MW5	2/11/94	2,300*		
	5/17/94	2,500*	<del>-</del> -	
	8/25/94	2,000**		
	11/18/94	2,000**		
	2/15/95	2,000*	<del></del>	
	6/13/95	2,400**	n-	
	8/25/95	2,300**		
	11/28/95	3,800**		
	2/26/96	1,600**		**
	5/23/96	190*		
	8/23/96	140**		
	11/22/96	350*		
	2/13/97	200*		

<sup>\*</sup> Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

ND = Non-detectable.

- Indicates analysis was not performed.

mg/L = milligrams per liter.

Results are in micrograms per liter (µg/L), unless otherwise indicated.

Note: Laboratory analyses data prior to February 11, 1994, were provided by Kaprealian Engineering, Inc.

<sup>\*\*</sup> Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.

 Table 4

 Summary of Monitoring Data

		Dissolved Oxyger Before Purging	Concentrations After Purging
Well	Date	(mg/L)	(mg/L)
MW1	5/24/95	2.32	
	6/13/95	2.32	~-
	8/25/95	3.20	
	11/28/95	3.26	
	3/26/96	0.54	0.62
MW5	5/24/95	2.80	
	6/13/95	2.80	
	8/25/95	5.79	
	11/28/95	2.25	7-
	3/26/96	0.32	0.39
	5/23/96	9.72	4.57
	8/23/96	3.19	
	11/22/96	0.05	~-
	2/12/97	19.78	

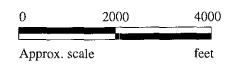
<sup>--</sup> Indicates measurement was not taken.

mg/L = milligrams per liter.

Note: Measurements were taken using a LaMotte DO4000 dissolved oxygen meter.

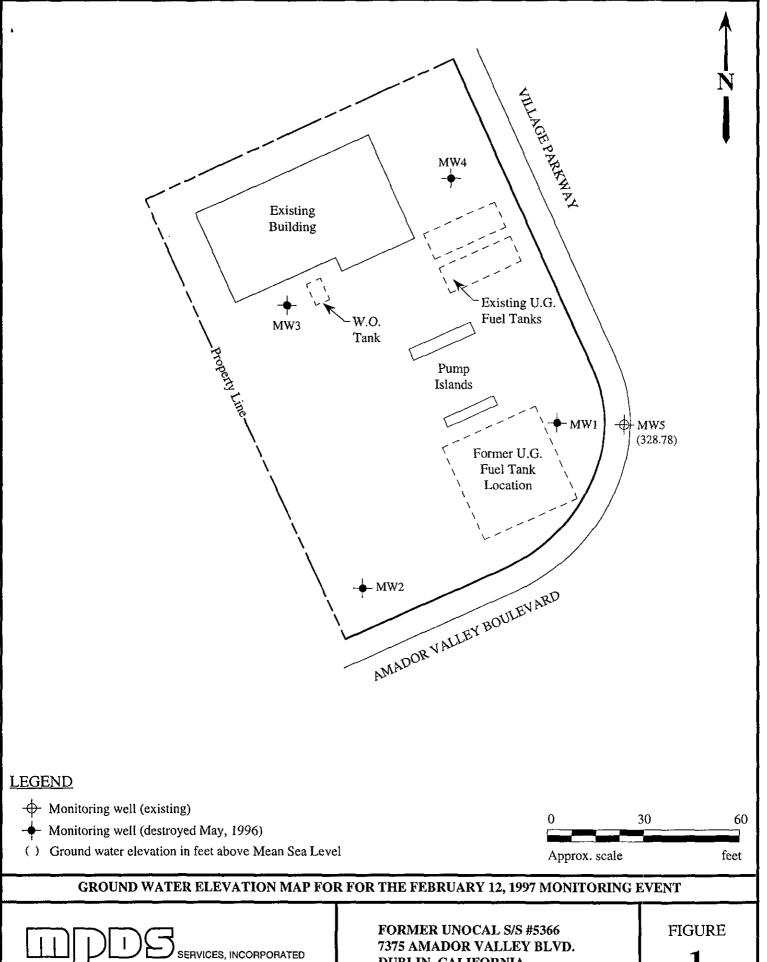
**↑** N I

Base modified from 7.5 minute U.S.G.S. Dublin Quadrangle (photorevised 1980)

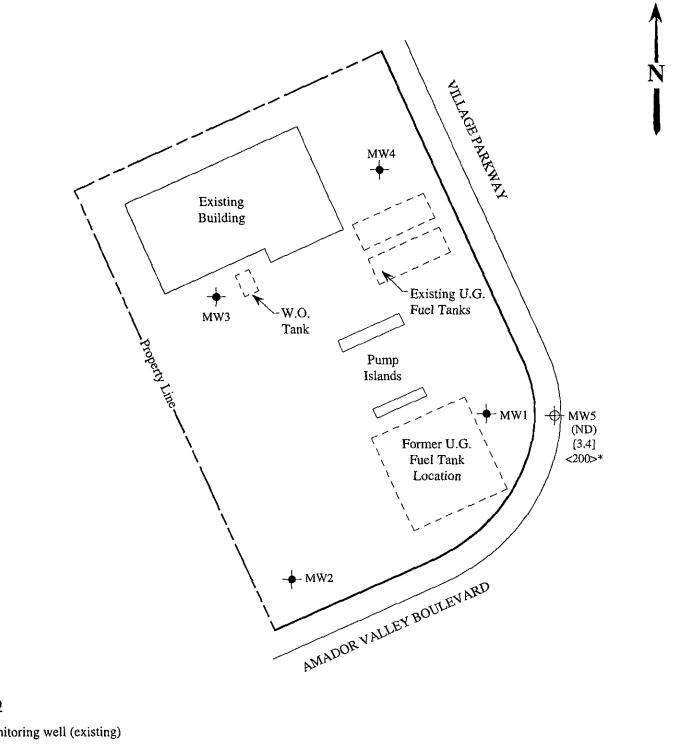




FORMER UNOCAL S/S #5366 7375 AMADOR VALLEY BLVD. DUBLIN, CALIFORNIA LOCATION MAP

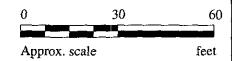


**DUBLIN, CALIFORNIA** 



# LEGEND

- Monitoring well (existing)
- Monitoring well (destroyed May, 1996)
- ( ) Concentration of TPH as gasoline in μg/L
- [ ] Concentration of benzene in µg/L
- < > Concentration of TPH as diesel in µg/L
  - \* MW5 sampled for TPH as diesel on February 13, 1997



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON FEBRUARY 12, 1997



FORMER UNOCAL S/S #5366 7375 AMADOR VALLEY BLVD. **DUBLIN, CALIFORNIA** 

**FIGURE** 



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

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider

Client Project ID: Matrix Descript: Analysis Method:

First Sample #:

Unocal #5366, 7375 AmadorValley Blvd. Water

EPA 5030/8015 Mod./8020

702-1055

Sampled: Dublin Received:

in a grital statement of the lategal to a troughth grown grown participate at the grown and the gr

Feb 12, 1997 Feb 13, 1997

Reported: Mar 3, 1997

# TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons μg/L	Benzene μg/L	Toluene μg/L	<b>Ethyl</b> <b>Benzene</b> μg/L	Total Xylenes μg/L	<b>ΜΤΒΕ</b> μg/L
702-1055	MW-5	ND	3.4	ND	0.97	ND	48

Detection Limits:	50	0.50	0.50	0.50	0.50	5.0

Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as ND were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL, #1271** 

Signature on File

Alan B. Kemp **Project Manager** 







680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider

Matrix Descript:

Client Project ID: Unocal #5366, 7375 Amador Valley Blvd. Sampled: Water

Analysis Method: EPA 5030/8015 Mod./8020

Dublin

Feb 12, 1997 Received: Reported:

Feb 13, 1997<sup>:..</sup> Mar 3, 1997

First Sample #: with a configuration of the wild will be an experience of the configuration of the wild beautiful and the wild ารางกราช สมาราคภาพนาสสเตรา เป็นสมาธิการก

702-1055

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample	Sample	Chromatogram	DL Mult.	Date	Instrumen	Recovery, % QC Limits: 70-130
Number	Description	Pattern	Factor	Analyzed	ID	
702-1055	MW-5		1.0	2/25/97	HP-4	104

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp Project Manager





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

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520

Attention: Jarrel Crider

Client Project ID: Unocal #5366, 7375 AmadorValley Blvd., Dublin

Matrix:

QC Sample Group: 702-1055 and the state of t Reported:

### QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes
			Benzene	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	K. Nill	K, Nill	K. Niil	K. Nill
MS/MSD				
Batch#:	7021065	7021065	7021065	7021065
Date Prepared:	2/25/97	2/25/97	2/25/97	2/25/97
Date Analyzed:	2/25/97	2/25/97	2/25/97	2/25/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 μg/L	$20\mu\mathrm{g/L}$	$20\mu\mathrm{g/L}$	60 μg/L
Matrix Spike				
% Recovery:	100	100	100	100
Matrix Spike				
Duplicate % Recovery:	100	100	100	100
necovery.	100	100	100	100
Relative %				
Difference:	0.0	0.0	0.0	0.0

LCS Batch#:	4LCS022597	4LCS022597	4LC\$022597	4LCS022597		
Date Prepared:	2/25/97	2/25/97	2/25/97	2/25/97		
Date Analyzed:	2/25/97	2/25/97	2/25/97	2/25/97		
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4		
LCS %						
Recovery:	105	110	110	110		
% Recovery Control Limits:	60-140	60-140	60-140	60-140		

# **SEQUOIA ANALYTICAL, #1271**

Signature on File

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.

나 회장은 내용할 것 있다. 그런데, 악이네. 그에게 되었게 다른 유럽 때 목 점점에 중심을 하되었다.





680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

**MPDS Services** 

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider

Client Project ID: Unocal #5366, 7375 Amador Valley Blvd.

Dublin

Sampled: Feb 13, 1997

Sample Matrix: Analysis Method:

Water EPA 3510/8015 Mod. Received:

Feb 13, 1997

First Sample #:

Reported:

Mar 3, 1997:

# TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

702-0874

Analyte	Reporting Limit μg/L	Sample I.D. 702-0874 MW-5^	
Extractable Hydrocarbons	50	200	
Chromatogram Pa	ttern:	Diesel & Unidentified	

## **Quality Control Data**

Report Limit Multiplication Factor:

1.0

Hydrocarbons <C15 >C20

Date Extracted:

2/19/97

Date Analyzed:

2/20/97

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**

Signature on File

Alan B. Kemp Project Manager

## Please Note:

^This sample appears to contain diesel and non-diesel mixtures. Unidentified hydrocarbons < C15 are probably gasoline; > C20 refers to unidentified peaks in the total oil & grease range.





680 Chesapeake Drive 404 N Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider Client Project ID: Unocal #5366, 7375 Amador Valley Blvd., Dublin

Matrix: Liquid

QC Sample Group: 702-0874

Reported:

Mar 3, 1997

### **QUALITY CONTROL DATA REPORT**

ANALYTE

Diesel

Method:

EPA 8015

Analyst:

D. Sharma

MS/MSD

Batch#:

BLK021997

Date Prepared:

2/19/97

Date Analyzed:

2/20/97

Instrument I.D.#:

нр-за

Conc. Spiked:

300 µg/L

**Matrix Spike** 

% Recovery:

93

Matrix Spike Duplicate %

Recovery:

100

Relative %

Difference:

6.9

LCS Batch#:

LCS021997

**Date Prepared:** 

2/19/97

Date Analyzed:

2/20/97 HP-3A

Instrument I.D.#:

LCS %

Recovery:

102

% Recovery

**Control Limits:** 

60-140

### SEQUOIA ANALYTICAL, #1271

Signature on File

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.

RELINQUISHED BY:  DATE/TIME  SS # \$366 CITY: QUEUN  ADDRESS; 735 AMADAR VALLEY BYO  ADDRESS; 735 AMADAR VALLEY BYO  BY ST BYO  BY ST BYO  ADDRESS; 735 AMADAR VALLEY BYO  BY ST BYO  BY ST BYO  ADDRESS; 735 AMADAR VALLEY BYO  BY ST BYO  BY ST BYO  ADDRESS; 735 AMADAR VALLEY BYO  BY ST BYO  BY ST BYO  ADDRESS; 735 AMADAR VALLEY BYO  BY ST BY ST BYO  BY ST BYO  BY ST BY S				<del></del>			CHA	IN OF C	051	ט ט	Y							
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