MONITORING
PURGING
DISPOSING
SAMPLING
MPDS SERVICES, INCORPORATED

MPDS-UN5366-09
March 29, 1996

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

Attention: Mr. Edward C. Ralston

RE: Quarterly Data Report
Unocal Service Station #5366
7375 Amador Valley Boulevard
Dublin, California

Dear Mr. Ralston:

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

RECENT FIELD ACTIVITIES

The Unocal monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Oxygen Release Compound (ORC) filter socks were installed in well MW5. Prior to sampling, the Unocal wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations for the Unocal wells are summarized in Table 1. The ground water flow direction at the Unocal site during the most recent quarter is shown on the attached Figure 1. (east)

A joint monitoring event was conducted with the consultants for the nearby Arco, B.P., and Shell sites on February 26, 1996. The monitoring data collected for the Arco, B.P., and Shell service stations (provided by Emcon, Alisto Engineering Group, and Blaine Tech Services, respectively) are summarized in Tables 5, 6, and 7. The ground water elevation contours at and in the vicinity of these sites during the most recent quarter are also shown on the attached Figure 1.

Ground water samples were collected from the Unocal wells on February 26, 1996. Prior to sampling, the Unocal wells were each purged of between 8.5 and 9 gallons of water. In addition, dissolved oxygen concentrations were also measured and are presented in Table 4. Samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, 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. Equipment blank, Trip blank, and Field blank samples (denoted as ES1, ES2, and ES3 respectively) were also collected for quality assurance and control. 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 the Unocal wells 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 from the Unocal wells 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 samples collected from the Unocal wells this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation for the Unocal wells 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

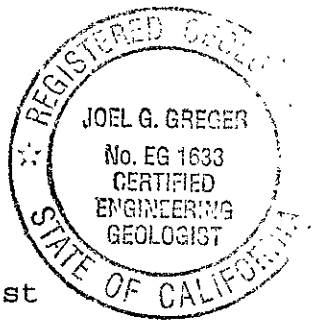
A copy of this report should be sent to Ms. Eva Chu of the Alameda County Health Care Services Agency.

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

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 8/31/96

/bp

Attachments: Tables 1 through 7
Location Map
Figures 1 & 2
Laboratory Analyses
Chain of Custody documentation

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

TABLE 1

SUMMARY OF MONITORING DATA
UNOCAL MONITORING WELLS

Well #	Ground Water Elevation (feet)	Depth to Water (feet)♦	Total Well Depth (feet)♦	Product Thickness (feet)	Sheen	Water Purged (gallons)
(Monitored and Sampled February 26, 1996)						
MW1	329.62	6.45	19.48	0	No	9
MW2	330.39	6.39	19.26	0	No	9
MW3	330.59	6.39	18.89	0	No	8.5
MW4	329.68	6.75	19.37	0	No	9
MW5	328.81	7.15	19.98	0	No	9
(Monitored and Sampled November 28, 1995)						
MW1	325.62	10.45	19.51	0	No	6.5
MW2*	326.13	10.65	19.28	0	--	0
MW3*	326.13	10.85	18.95	0	--	0
MW4*	325.62	10.81	19.41	0	--	0
MW5	325.63	10.33	20.01	0	No	7
(Monitored and Sampled August 25, 1995)						
MW1	326.39	9.68	19.50	0	No	7
MW2*	327.02	9.76	19.27	0	--	0
MW3*	326.95	10.03	18.90	0	--	0
MW4*	326.35	10.08	19.41	0	--	0
MW5	326.39	9.57	20.00	0	No	7.5
(Monitored and Sampled June 13, 1995)						
MW1	327.25	8.82	19.45	0	No	8
MW2*	327.81	8.97	19.24	0	--	0
MW3*	327.80	9.18	18.90	0	--	0
MW4*	327.22	9.21	19.40	0	--	0
MW5	327.31	8.65	19.68	0	No	8

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA
UNOCAL MONITORING WELLS

Well #	Well Casing Elevation (feet)**
MW1	336.07
MW2	336.78
MW3	336.98
MW4	336.43
MW5	335.96

♦ The depth to water level and total well depth measurements were taken from the top of the well casings.

* Monitored only.

** The elevations of the top of the well casings have been 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).

-- Sheen determination was not performed.

TABLE 2

SUMMARY OF LABORATORY ANALYSES
UNOCAL MONITORING WELLS
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
2/26/96	MW1	1,900	40	ND	84	46	110
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
	MW5	2,800	75	ND	160	ND	74
11/28/95	MW1▼▼	650	15	ND	21	6.7	--
	MW2	SAMPLED ANNUALLY					
	MW3	SAMPLED ANNUALLY					
	MW4	SAMPLED ANNUALLY					
	MW5▼▼	6,400	320	ND	720	ND	--
8/25/95	MW1▼	530	16	ND	2.2	13	--
	MW2	SAMPLED ANNUALLY					
	MW3	SAMPLED ANNUALLY					
	MW4	SAMPLED ANNUALLY					
	MW5▼	3,100	43	ND	590	8.4	--
6/13/95	MW1▲	1,300	28	ND	15	ND	--
	MW2	SAMPLED ANNUALLY					
	MW3	SAMPLED ANNUALLY					
	MW4	SAMPLED ANNUALLY					
	MW5▲	14,000	2,200	ND	2,200	ND	--
2/15/95	MW1	2,400	61	ND	87	34	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
	MW5	16,000	2,700	ND	1,700	50	--
11/18/94	MW1	820	21	ND	19	6.6	--
	MW2	SAMPLED ANNUALLY					
	MW3	SAMPLED ANNUALLY					
	MW4	SAMPLED ANNUALLY					
	MW5	18,000	2,400	52	1,600	51	--
8/25/94	MW1	650	10	1.6	7.7	2.1	--
	MW5	9,400	3,800	ND	2,200	150	--

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
UNOCAL MONITORING WELLS
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
5/17/94	MW1	1,000	41	ND	49	32	--
	MW2	SAMPLED ANNUALLY					
	MW3	SAMPLED ANNUALLY					
	MW4	SAMPLED ANNUALLY					
	MW5	20,000	4,300	ND	2,300	130	--
2/11/94	MW1	970	40	3.2	2.8	15	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
	MW5	18,000	2,400	140	920	3,100	--
11/11/93	MW1	350	19	2.5	2.7	3.4	--
8/12/93	MW1	1,000	46	ND	29	6.3	--
5/10/93	MW1	1,600	39	0.40	25	3.3	--
2/10/93	MW1	3,000	230	ND	340	200	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
11/10/92	MW1	1,100	49	ND	71	21	--
8/12/92	MW1	1,700	51	ND	93	21	--
5/22/92	MW1	2,500	120	ND	230	37	--
	MW2	ND	ND	ND	ND	ND	--
2/25/92	MW1	3,900	500	ND	450	400	--
11/13/91	MW1	860	40	ND	11	2.5	--
8/12/91	MW1	1,100	68	2.6	210	9.3	--
5/15/91	MW1	2,100	220	ND	360	27	--
2/14/91	MW1	1,900	150	2.9	340	43	--

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
UNOCAL MONITORING WELLS
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
11/14/90	MW1	2,000	110	0.52	410	16	--
8/15/90	MW1	2,200	160	ND	570	45	--
5/18/90	MW1	2,000	140	1.8	460	19	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
2/06/90	MW1	2,700	170	ND	350	29	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
10/20/89	MW1	ND	ND	ND	ND	ND	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	0.38	ND	--
	MW4	ND	ND	ND	ND	ND	--
7/27/89	MW1	1,900	130	6.3	ND	68	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	0.34	ND	ND	ND	--
5/22/89	MW3	ND	ND	ND	ND	ND	--
4/28/89	MW1	1,000	97	0.8	170	24	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	880	9.6	9.7	19	12.7	--
	MW4	ND	0.3	ND	ND	ND	--
1/26/89	MW1	1,900	240	1.8	81	30	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	0.67	ND	ND	ND	--

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
UNOCAL MONITORING WELLS
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
10/28/88	MW1	5,200	150	ND	250	12	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	--	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
7/25/88	MW1	6,100	170	2.1	94	94	--
	MW2	ND	ND	ND	ND	ND	--
	MW3	--	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--
4/29/88	MW1	10,000	960	17	870	1,500	--
	MW2	170	2.7	0.6	ND	13	--
	MW3	ND	ND	ND	ND	ND	--
	MW4	ND	ND	ND	ND	ND	--

▼ Sequoia Analytical Laboratory has potentially identified the presence of MTBE at reportable levels in the ground water samples collected from this well.

▼▼ Sequoia Analytical Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 µg/L in the sample collected from this well.

ND = Non-detectable.

-- Indicates that analysis was not performed.

Results are in micrograms per liter (µg/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
UNOCAL MONITORING WELLS
WATER

Date	Well #	TPH as Diesel	Total Oil & Grease (mg/L)	EPA 8010 Constituents
2/26/96	MW3	ND	ND	--
	MW5	1,600**	--	--
11/28/95	MW5	3,800**	--	--
8/25/95	MW5	2,300**	--	--
6/13/95	MW5	2,400**	--	--
2/15/95	MW3	ND	ND	--
	MW5	2,000*	--	--
11/18/94	MW5	2,000**	--	--
8/25/94	MW5	2,000**	--	--
5/17/94	MW5	2,500*	--	--
2/11/94	MW3	ND	ND	--
	MW5	2,300*	--	--
5/10/93	MW1	730*	--	--
2/10/93	MW3	200	ND	--
5/18/90	MW3	ND	ND	ND
2/06/90	MW3	ND	ND	ND
10/20/89	MW3	ND	2.5	ND
7/27/89	MW3	ND	1.6	ND
5/22/89	MW3	--	--	--
4/28/89	MW3	72	ND	ND

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
UNOCAL MONITORING WELLS
WATER

Date	Well #	TPH as Diesel	Total Oil & Grease (mg/L)	EPA 8010 Constituents
1/26/89	MW3	ND	--	ND
10/28/88	MW3	ND	--	ND
7/25/88	MW3	ND	--	ND
4/29/88	MW3	ND	--	ND

* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

** Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.

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.

TABLE 4

SUMMARY OF MONITORING DATA
Dissolved Oxygen Concentration (DO) Measurement

Date	Well #	DO (mg/L)	
		Before Purging	**After Purging**
3/26/96	MW1	0.54	0.62
	MW5	0.32	0.39
11/28/95	MW1	3.26	--
	MW5	2.25	--
8/25/96	MW1	3.20	--
	MW5	5.79	--
6/13/95	MW1	2.32	--
	MW5	2.80	--
5/24/95	MW1	2.32	--
	MW5	2.80	--

-- Reading not taken.

mg/L = milligrams per liter.

TABLE 5

SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)♦	Well Casing Elevation (feet)*
	ARCO Service Station Wells **(Monitored on February 26, 1996)** Provided by EMCON		
MW1	329.21	7.35	336.56
MW2	328.15	6.65	334.80
MW3	327.11	8.42	335.53
MW4	327.57	6.65	334.22
MW5	329.14	6.73	335.87
MW6	329.24	6.60	335.84

♦ The depth to water level measurements were taken from the top of the well casings.

* The benchmark used for the survey is a standard Bronze Disk in the westerly center island of Amador Valley and Village Parkway, 15 feet from nose and 0.8 feet +/- from northerly curb. The disk is stamped "VL-PK-AM-VY 1977" (El. = 334.402 feet).

TABLE 6

SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)♦	Well Casing Elevation (feet)*
	BP Service Station Wells **(Monitored on February 26, 1996)** Provided by Alisto Engineering Group		
AW5	327.68	7.13	334.81
AW6	329.12	5.78	334.90

♦ The depth to water level measurements were taken from the top of the well casings.

* Relative to Mean Sea Level.

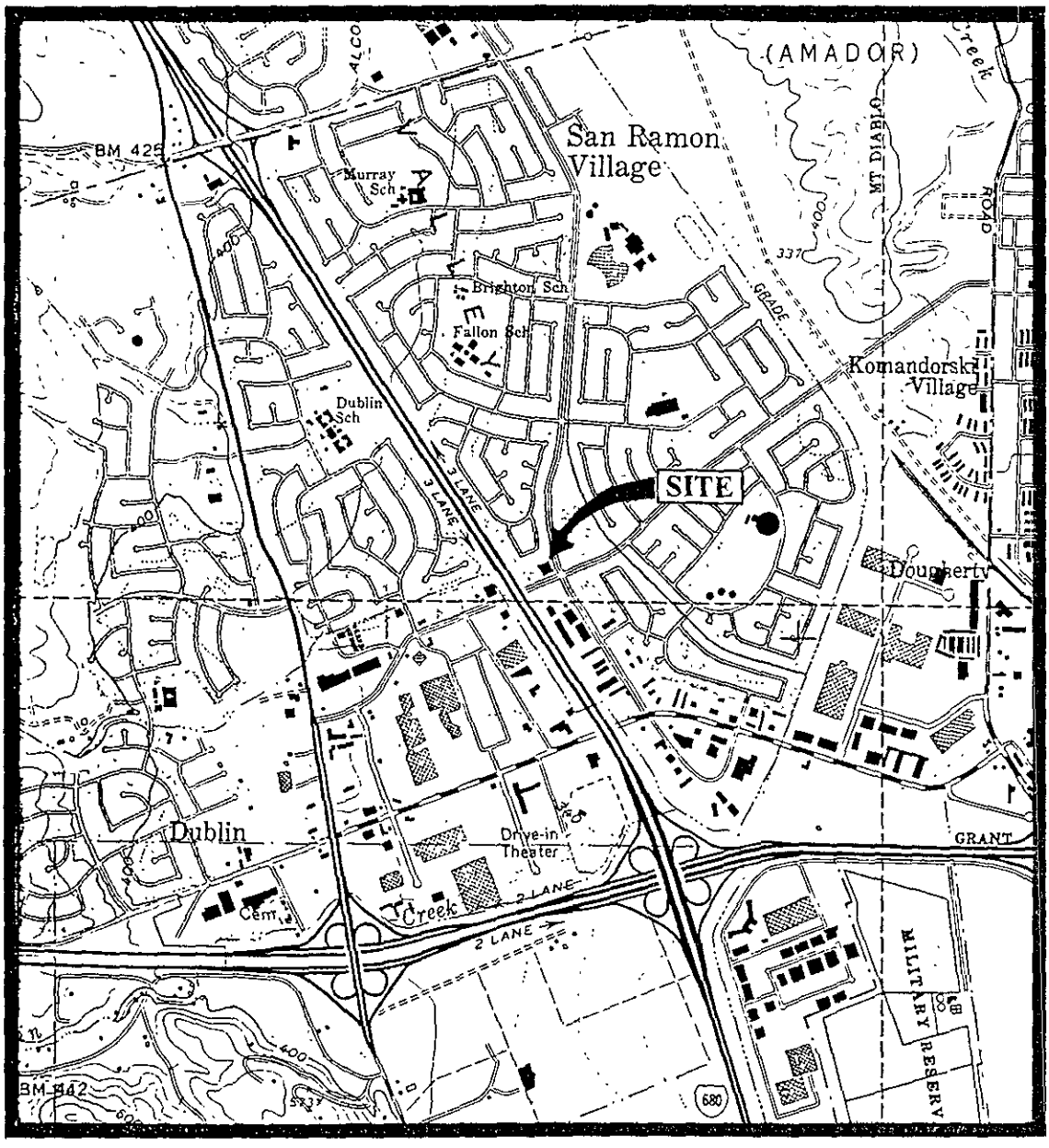
TABLE 7

SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)♦	Well Casing Elevation (feet)*
	SHELL Service Station Wells **(Monitored on February 26, 1996)** Provided by Blaine Tech Services		
MW1	329.23	5.60	334.83
MW2	329.42	7.54	336.96
MW3	329.89	7.04	336.93
MW4	329.62	7.52	337.14
MW6	329.48	5.94	335.42
MW13	329.88	5.76	335.64

♦ The depth to water level measurements were taken from the top of the well casings.

* Relative to Mean Sea Level.

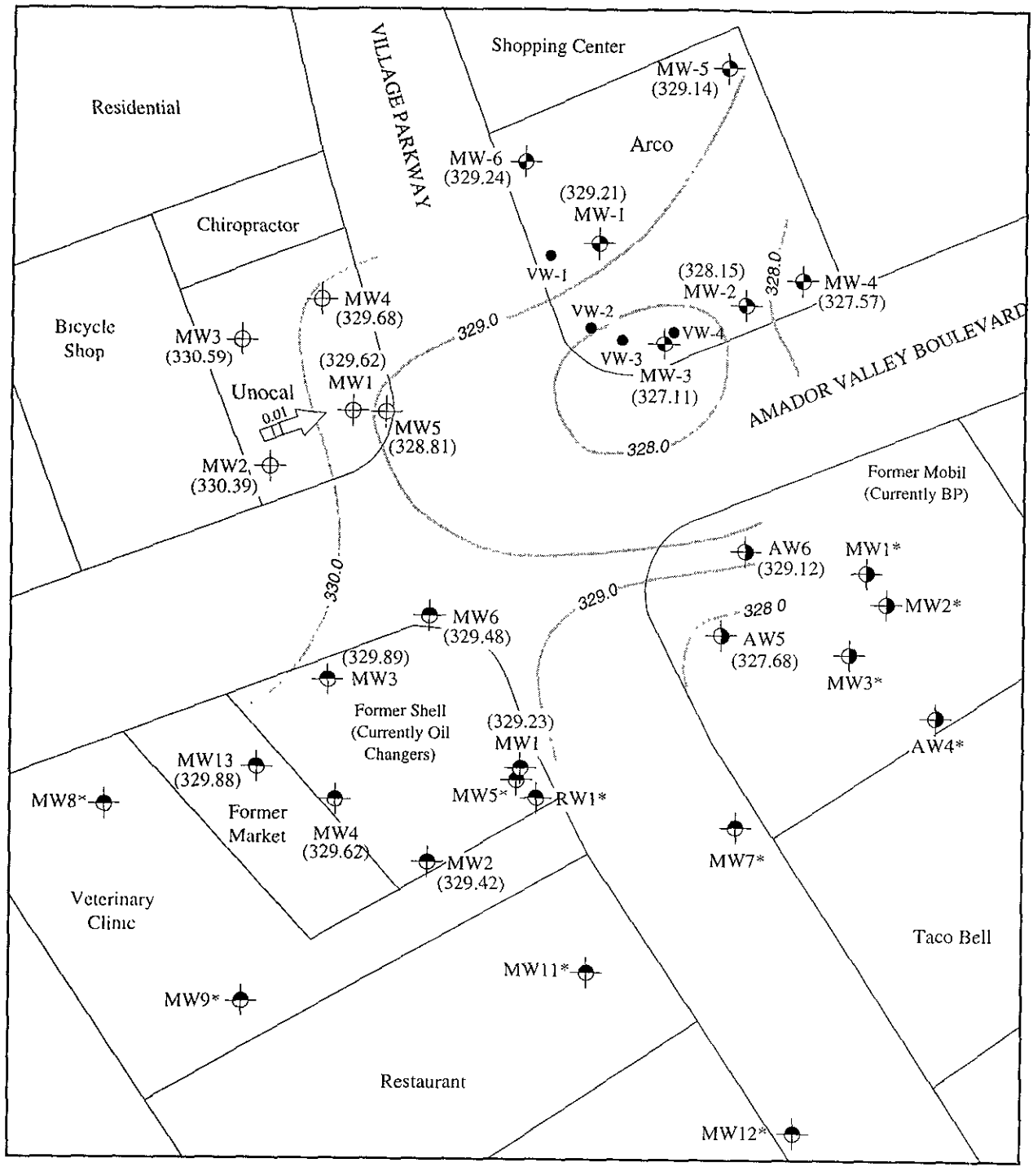


Base modified from 7.5 minute U.S.G.S. Dublin Quadrangle
(photorevised 1980)

0 2000 4000

Approx. scale feet

mpds SERVICES, INCORPORATED	UNOCAL SERVICE STATION #5366 7375 AMADOR VALLEY BLVD. DUBLIN, CALIFORNIA	LOCATION MAP



LEGEND

- Monitoring well (Unocal)
- Monitoring well (BP)
- Monitoring well (Shell)
- Monitoring well (Arco)
- Vapor extraction well (Arco)
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation
- * Not monitored

0 100 200

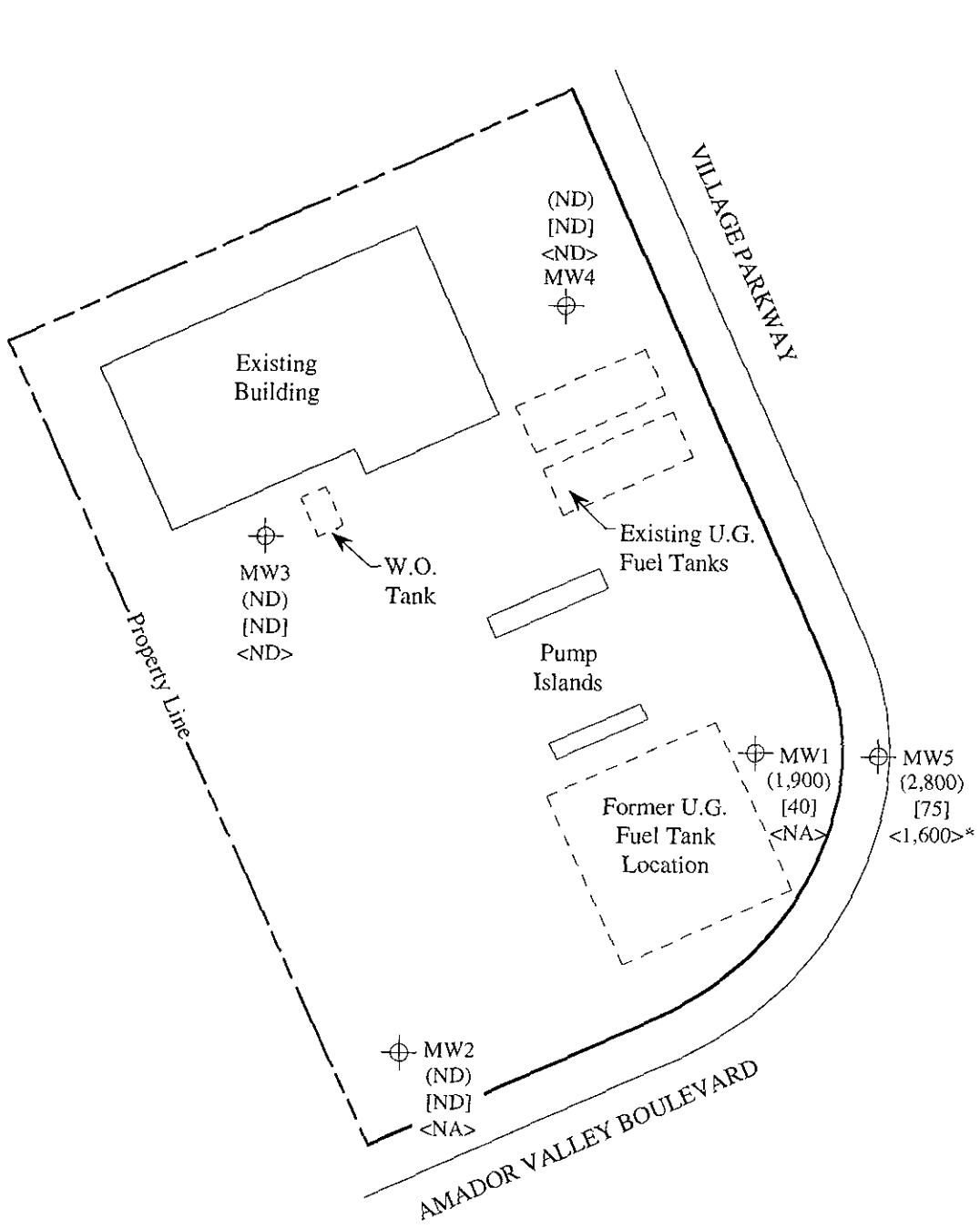
Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE FEBRUARY 26, 1996 JOINT MONITORING EVENT

mpds SERVICES, INCORPORATED

UNOCAL SERVICE STATION #5366
7375 AMADOR VALLEY BLVD.
DUBLIN, CALIFORNIA

FIGURE
1



LEGEND

- ⊕ Monitoring well
- ( ) Concentration of TPH as gasoline in µg/L
- [ ] Concentration of benzene in µg/L
- < > Concentration of TPH as diesel in µg/L
- NS Not sampled

* The lab reported that the hydrocarbons detected did not appear to be diesel.

0 30 60

Approx. scale feet

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON FEBRUARY 26, 1996

mpds SERVICES, INCORPORATED

UNOCAL SERVICE STATION #5366
7375 AMADOR VALLEY BLVD.
DUBLIN, CALIFORNIA

FIGURE
2

Sequoia Analytical

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

MPDS Services	Client Project ID:	Unocal #5366, 7375 Amador Valley Rd.		Sampled: Feb 26, 1996
2401 Stanwell Dr., Ste. 300	Matrix Descript:	Water	Dublin	Received: Feb 26, 1996
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020		Reported: Mar 14, 1996
Attention: Jarrel Crider	First Sample #:	602-1776		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L	MTBE µg/L
602-1776	MW-1	1,900	40	ND	84	46	110
602-1777	MW-2	ND	ND	ND	ND	ND	--
602-1778	MW-3	ND	ND	ND	ND	ND	--
602-1779	MW-4	ND	ND	ND	ND	ND	--
602-1780	MW-5	2,800	75	ND	160	ND	74
602-1781	ES-1	ND	ND	ND	ND	ND	--
602-1782	ES-2	ND	ND	ND	ND	ND	--
602-1783	ES-3	ND	ND	ND	ND	ND	--
Detection Limits:		**50**	**0.50**	**0.50**	**0.50**	**0.50**	**40**

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, #1210

Signature on File

Alan B. Kemp
Project Manager

6021776.MPD <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, 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 Rd. Dublin
Matrix Descript: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 602-1776

Sampled: Feb 26, 1996
Received: Feb 26, 1996
Reported: Mar 14, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
602-1776	MW-1	Gasoline	20	3/6/96	GCHP-07	86
602-1777	MW-2	--	1.0	3/6/96	GCHP-07	79
602-1778	MW-3	--	1.0	3/7/96	GCHP-22	100
602-1779	MW-4	--	1.0	3/7/96	GCHP-22	96
602-1780	MW-5	Gasoline	20	3/6/96	GCHP-07	76
602-1781	ES-1	--	1.0	3/7/96	GCHP-22	93
602-1782	ES-2	--	1.0	3/7/96	GCHP-22	98
602-1783	ES-3	--	1.0	3/7/96	GCHP-22	88

SEQUOIA ANALYTICAL, #1210

Signature on File

Alan B. Kemp
Project Manager

Sequoia Analytical

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

MPDS Services	Client Project ID:	Unocal #5366, 7375 Amador Valley Rd.		Sampled:	Feb 26, 1996
2401 Stanwell Dr., Ste. 300	Sample Matrix:	Water	Dublin	Received:	Feb 26, 1996
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod.		Reported:	Mar 14, 1996
Attention: Jarrel Crider	First Sample #:	602-1778			

TOTAL PURGEABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 602-1778 MW-3	Sample I.D. 602-1780 MW-5 *
Purgeable Hydrocarbons	50	N.D.	1,600
Chromatogram Pattern:		--	Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	2/28/96	2/28/96
Instrument Identification:	2/29/96	2/29/96
Surrogate Recovery: (QC Limits = 70-130%)	HP-3A	HP-3A

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 on File

Alan B. Kemp
Project Manager

Please Note:
* This sample does not appear to contain diesel. "Unidentified Hydrocarbons <C15" are probably gasoline.

Sequoia Analytical

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

MPDS Services	Client Project ID:	Unocal #5366, 7375 Amador Valley Rd. Dublin	Sampled:	Feb 26, 1996
2401 Stanwell Dr., Ste. 300	Matrix Descript:	Water	Received:	Feb 26, 1996
Concord, CA 94520	Analysis Method:	SM 5520 B&F (Gravimetric)	Extracted:	Mar 5, 1996
Attention: Jarrel Crider	First Sample #:	602-1778	Analyzed:	Mar 5, 1996
			Reported:	Mar 14, 1996

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L (ppm)	Detection Limit Multiplication Factor
602-1778	MW-3	N.D.	1.0

Detection Limits:	**5.0**

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Sequoia Analytical

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

Client Project ID: Unocal #5366, 7375 Amador Valley Rd., Dublin
Matrix: Liquid

QC Sample Group: 6021776-783

Reported: Mar 14, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	J. Dinsay	D. Newcomb
MS/MSD Batch#:	9603129-03F	9603129-03F	9603129-03F	9603129-03F	BLK022896	BLK022296
Date Prepared:	3/7/96	3/7/96	3/7/96	3/7/96	2/28/96	2/22/96
Date Analyzed:	3/7/96	3/7/96	3/7/96	3/7/96	2/29/96	2/22/96
Instrument I.D.#:	GCHP-22	GCHP-22	GCHP-22	GCHP-22	HP-3A	Manual
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	300 µg/L	100 mg/L
Matrix Spike % Recovery:	100	100	100	100	80	91
Matrix Spike Duplicate % Recovery:	100	100	99	100	80	85
Relative % Difference:	0.0	0.0	1.0	0.0	0.0	6.8
LCS Batch#:	BLK030796	BLK030796	BLK030796	BLK030796	LCS022896	BLK022296
Date Prepared:	3/7/96	3/7/96	3/7/96	3/7/96	2/28/96	2/22/96
Date Analyzed:	3/7/96	3/7/96	3/7/96	3/7/96	2/29/96	2/22/96
Instrument I.D.#:	GCHP-22	GCHP-22	GCHP-22	GCHP-22	HP-3A	Manual
LCS % Recovery:	98	97	97	97	87	91
% Recovery Control Limits:	71-133	72-128	72-130	71-120	50-150	60-140

SEQUOIA ANALYTICAL, #1210 & #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.

Sequoia Analytical

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

Client Project ID: Unocal #5366, 7375 Amador Valley Rd., Dublin
Matrix: Liquid

QC Sample Group: 6021776-783

Reported: Mar 14, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD Batch#:	9602J37-07	9602J37-07	9602J37-07	9602J37-07
Date Prepared:	3/6/96	3/6/96	3/6/96	3/6/96
Date Analyzed:	3/6/96	3/6/96	3/6/96	3/6/96
Instrument I.D.#:	GCHP-07	GCHP-07	GCHP-07	GCHP-07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	99	100	99	100
Matrix Spike Duplicate % Recovery:	97	97	96	97
Relative % Difference:	2.0	3.0	3.1	3.4
LCS Batch#:	BLK030696	BLK030696	BLK030696	BLK030696
Date Prepared:	3/6/96	3/6/96	3/6/96	3/6/96
Date Analyzed:	3/6/96	3/6/96	3/6/96	3/6/96
Instrument I.D.#:	GCHP-07	GCHP-07	GCHP-07	GCHP-07
LCS % Recovery:	84	84	82	83
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1210

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.*

mpds SERVICES, INCORPORATED
2401 Stanwell Drive, Suite 400
Concord, California 94520
Tel: (510) 602-5100, Fax: (510) 689-1918

CHAIN OF CUSTODY

9602459

SAMPLER: NICHOLAS PERROW
WITNESSING AGENCY:

UNOCAL S/S # 5366 CITY: DUBLIN
ADDRESS: 7375 AMADOR VALLEY BLVD.

ANALYSES REQUESTED

TURN AROUND TIME: REGULAR

SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-GAS BTEX	TPH-DIESEL	TOG	8010	MTBE				REMARKS
MW-1	2/26/96	10:15	✓	✓		4	WELL	✓				✓				6021776 A-D
MW-2	"	8:45	✓	✓		2	"	✓								6021777 A,B
MW-3	"	9:10	✓	✓		4	"	✓	✓	✓						6021778 A-D
MW-4	"	9:40	✓	✓		2	"	✓								6021779 A,B
MW-5	"	11:00	✓	✓		5	"	✓	✓			✓				6021780 A-E

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
(SIGNATURE)	2/26/96 15:00	(SIGNATURE)	
(SIGNATURE)		(SIGNATURE)	
(SIGNATURE)		(SIGNATURE)	
(SIGNATURE)		(SIGNATURE) Ken Melander	2/26/96 15:00

THE FOLLOWING MUST BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:

1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? Y
2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? Y
3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? ~~Y~~ N
4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? Y

SIGNATURE: Ken Melander TITLE: SC DATE: 2/26/96

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers ar unpreserved.

mpds SERVICES, INCORPORATED
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Concord, California 94520
Tel: (510) 602-5100, Fax: (510) 689-1918

CHAIN OF CUSTODY

9602459

SAMPLER: NICHOLAS PERROW

WITNESSING AGENCY:

UNOCAL S/S # 5366 CITY: DUBLIN

ADDRESS: 7375 AMADOR VALLEY BLVD.

ANALYSES REQUESTED

TURN AROUND TIME: REGULAR

SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-GAS BTEX	TPH-DIESEL	TOG	8010				REMARKS
FS-1	2/26/96		✓			1 VOA		✓					6021781		
FS-2	"		✓			1 VOA		✓					6021782		
FS-3	"		✓			1 VOA		✓					6021783		

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
(SIGNATURE)	2/26/96 1500	(SIGNATURE)	
(SIGNATURE)		(SIGNATURE)	
(SIGNATURE)		(SIGNATURE)	
(SIGNATURE)		(SIGNATURE) Ken Nolander	2/26/96 15:00

THE FOLLOWING MUST BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:

1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? _____
2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? _____
3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? _____
4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? _____

SIGNATURE: TITLE: DATE:

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers ar unpreserved.