MONITORING
PURGING
DISPOSING
SAMPLING
MPDS SERVICES, INCORPORATED

MPDS-UN6034-04
November 14, 1994

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

Attention: Ms. Tina R. Berry

RE: Quarterly Data Report
Unocal Service Station #6034
4700 First Street
Livermore, California

Dear Ms. Berry:

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. 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.

A joint monitoring and sampling event was scheduled to be conducted with the consultant for the nearby Chevron site on October 19, 1994. However, monitoring and sampling at the Chevron site was not conducted on that date. MPDS Services, Inc. will attempt to resume the joint monitoring and sampling program with the Chevron site next quarter.

Ground water samples were collected from the Unocal wells on October 19, 1994. Prior to sampling, the wells were each purged of between 6 and 8 gallons of water. 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. 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 Table 2. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline 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 the Alameda County Health Care Services Agency.

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

Sincerely,

MPDS Services, Inc.

Sarkis A. Karkarian
Staff Engineer

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

License No. EG 1633
Exp. Date 8/31/96

/bp

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

cc: Mr. Thomas J. Berkins, 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 on October 19, 1994)						
MW1*	505.36	15.28	27.92	0	--	0
MW2	505.02	14.80	25.65	0	No	7.5
MW3	505.58	14.08	25.42	0	No	8
MW4	505.66	13.95	25.47	0	No	8
MW5	505.07	15.20	23.57	0	No	6
MW6	WELL WAS OBSTRUCTED BY ROOTS					
MW7	504.78	14.05	23.65	0	No	7
(Monitored and Sampled on July 21, 1994)						
MW1*	505.02	15.62	27.91	0	--	0
MW2	504.83	14.99	25.64	0	No	7.5
MW3*	505.32	14.34	25.41	0	--	0
MW4	505.35	14.26	25.47	0	No	8
MW5	504.72	15.55	23.60	0	No	5.5
MW6	504.63	14.12	23.35	0	No	6.5
MW7	504.62	14.21	23.65	0	No	6.5
(Monitored and Sampled on April 21, 1994)						
MW1	505.06	15.58	27.93	0	No	8.5
MW2	504.86	14.96	25.65	0	No	7.5
MW3	505.36	14.30	25.43	0	No	8
MW4	505.48	14.13	25.48	0	No	8
MW5	504.86	15.41	23.61	0	No	6
MW6	504.65	14.10	23.27	0	No	6.5
MW7	504.66	14.17	23.66	0	No	6.5
(Monitored and Sampled on January 20, 1994)						
MW1*	504.99	15.65	27.90	0	--	0
MW2	504.80	15.02	25.64	0	No	7.5
MW3*	505.29	14.37	25.40	0	--	0
MW4	505.46	14.15	25.45	0	No	7.5
MW5	504.88	15.39	23.58	0	No	6
MW6	504.61	14.14	23.25	0	No	6.5
MW7	504.61	14.22	23.64	0	No	6.5

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA
UNOCAL MONITORING WELLS

Well #	Well Casing Elevation (feet)**
MW1	520.64
MW2	519.82
MW3	519.66
MW4	519.61
MW5	520.27
MW6	518.75
MW7	518.83

♦ 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 are relative to Mean Sea Level (MSL), per the City of Livermore Benchmark No. C-18-5 (elevation = 551.77 feet MSL).

-- Sheen determination was not performed.

TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER
UNOCAL MONITORING WELLS

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
10/19/94	MW1	SAMPLED ANNUALLY				
	MW2	4,100	16	3.5	8.6	1,100
	MW3	ND	ND	0.61	ND	0.51
	MW4	750	ND	3.6	4.2	3.4
	MW5	ND	ND	0.71	ND	0.57
	MW6	WELL WAS OBSTRUCTED BY ROOTS				
	MW7	ND	ND	0.87	ND	0.61
7/21/94	MW1	SAMPLED ANNUALLY				
	MW2	31,000	58	29	940	6,200
	MW3	SAMPLED SEMI-ANNUALLY				
	MW4	320	0.51	1.4	1.0	1.6
	MW5	ND	ND	ND	ND	ND
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
4/21/94	MW1*	ND	ND	ND	ND	ND
	MW2	27,000	85	65	880	5,300
	MW3	ND	ND	ND	ND	ND
	MW4	380	0.83	1.2	1.2	1.7
	MW5	ND	ND	ND	ND	ND
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
1/20/94	MW2	20,000	ND	ND	270	3,300
	MW3	SAMPLED SEMI-ANNUALLY				
	MW4	1,200	ND	2.6	4.7	7.4
	MW5	ND	ND	ND	ND	ND
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
10/20/93	MW2	12,000	27	10	100	3,000
	MW3	ND	ND	ND	ND	ND
	MW4	640	ND	2.5	2.3	1.9
	MW5	110	0.80	ND	ND	ND
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER
UNOCAL MONITORING WELLS

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
7/20/93	MW2	25,000	68	94	1,000	6,200
	MW3	ND	ND	ND	ND	ND
	MW4	NOT SAMPLED - SAMPLING ACCESS DENIED				
	MW5▲	89	1.1	0.51	ND	1.8
	MW6	WELL WAS OBSTRUCTED				
	MW7	ND	ND	ND	ND	ND
4/22/93	MW2	49,000	150	1,000	3,000	18,000
	MW3	ND	ND	ND	ND	ND
	MW4	1,100	8.8	1.0	7.2	6.0
	MW5▲	94	1.2	ND	ND	1.3
	MW6	WELL WAS OBSTRUCTED				
	MW7	ND	ND	ND	ND	ND
1/14/93	MW2	19,000	75	430	900	8,400
	MW3	ND	ND	ND	ND	ND
	MW4	920	ND	6.3	12	3.9
	MW5▲	91	ND	0.53	1.2	11
	MW6	WELL WAS OBSTRUCTED				
	MW7	ND	ND	ND	ND	ND
10/16/92	MW2	290	2.3	ND	5.1	15
	MW3	ND	ND	ND	ND	ND
	MW4	300	2.1	ND	4.8	13
	MW5▲	180	7.8	1.1	17	6.4
	MW6	WELL WAS OBSTRUCTED				
	MW7	ND	ND	ND	ND	ND
7/07/92	MW2	44,000	160	1,100	1,000	17,000
	MW3	ND	ND	ND	ND	ND
	MW4	340	ND	2.2	2.4	2.4
	MW5▲	76	0.48	1.1	0.32	1.3
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER
UNOCAL MONITORING WELLS

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
4/06/92	MW2	760	6.3	2.1	ND	130
	MW3	ND	ND	ND	ND	ND
	MW4	660	1.3	3.8	2.9	4.1
	MW5	240♦	ND	ND	0.35	ND
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
1/14/92	MW2	5,600	36	120	450	2,600
	MW3	ND	ND	ND	ND	ND
	MW4	1,500	4.2	7.1	18	9.2
	MW5	99	1.0	1.2	ND	0.32
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
10/14/91	MW2	11,000	79	130	660	4,700
	MW3	ND	ND	ND	ND	ND
	MW4	880	3.8	2.2	8.6	5.8
	MW5	660	55	4.4	50	66
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
7/10/91	MW1*	ND	ND	ND	ND	ND
	MW2	14,000	70	160	570	5,400
	MW3	ND	ND	ND	ND	ND
	MW4	830	8.4	19	7.7	7.2
	MW5	220	5.1	8.7	9.1	9.7
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
4/10/91	MW1*	ND	ND	ND	ND	ND
	MW2	22,000	170	190	490	6,200
	MW3	ND	ND	ND	ND	ND
	MW4	950	0.84	4.3	9.6	5.0
	MW5	630	35	14	47	30
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER
UNOCAL MONITORING WELLS

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
12/24/90	MW1*	ND	ND	ND	ND	0.40
	MW2	32,000	440	340	460	13,000
	MW3	ND	ND	ND	ND	ND
	MW4	1,400	ND	8.7	15	10
9/07/90	MW1*	ND	ND	1.2	ND	ND
	MW2	ND	ND	1.5	ND	ND
	MW3	1,100	11	ND	6.6	16
	MW4	15,000	100	140	210	4,600
6/05/90	MW1*	ND	ND	ND	ND	ND
	MW2	31,000	250	460	950	9,200
	MW3	ND	ND	ND	ND	ND
	MW4	1,400	1.2	4.7	24	12
3/08/90	MW1**	ND	ND	ND	ND	ND
	MW2	26,000	230	410	1,300	2,100
	MW3	ND	ND	ND	ND	ND
	MW4	1,200	18	8.4	37	28
11/18/89	MW1***	ND	ND	ND	ND	ND
	MW2	53,000	540	500	130	22,000
	MW3	ND	0.35	ND	ND	ND
	MW4	990	9.8	10	7.1	4.7

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER
UNOCAL MONITORING WELLS

♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

* Total Oil & Grease (TOG) and all EPA method 8010 constituents were non-detectable.

** TOG was detected at 4.7 milligrams per liter (mg/L). All EPA method 8010 compounds were non-detectable.

*** TOG was detected at 3.1 mg/L. All EPA method 8010 compounds were non-detectable, except for trichloroethene at 0.55 µg/L.

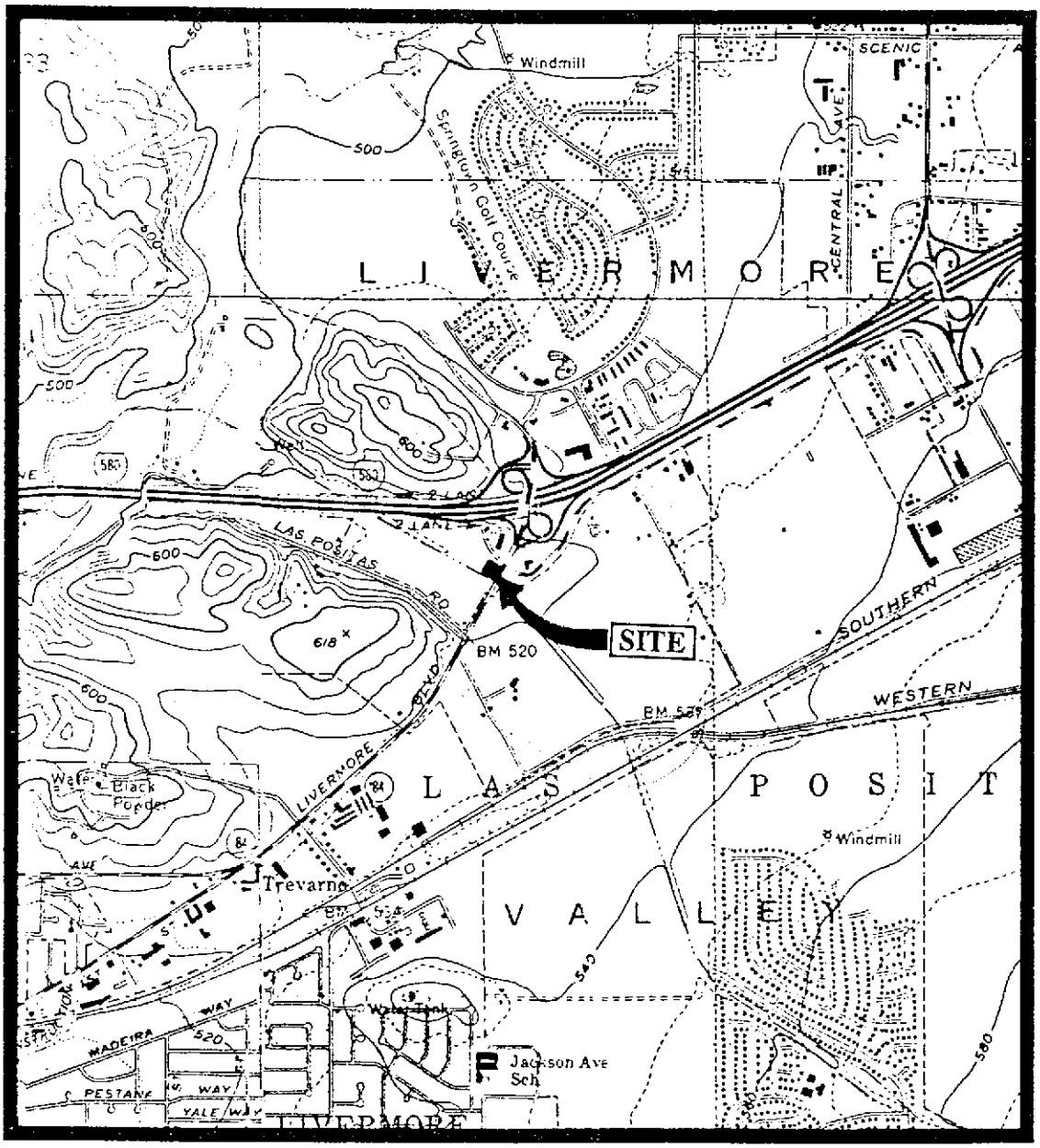
▲ Methyl tert butyl ether was detected at a concentration of 2.2 µg/L on July 20, 1993, 0.82 µg/L on April 22, 1993, 1.2 µg/L on January 14, 1994, 2.0 µg/L on October 16, 1992, and 1.5 µg/L on July 7, 1992.

ND = Non-detectable.

-- Indicates analysis was not performed.

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

Note: Laboratory analyses data prior to January 20, 1994, were provided by Kaprealian Engineering, Inc.

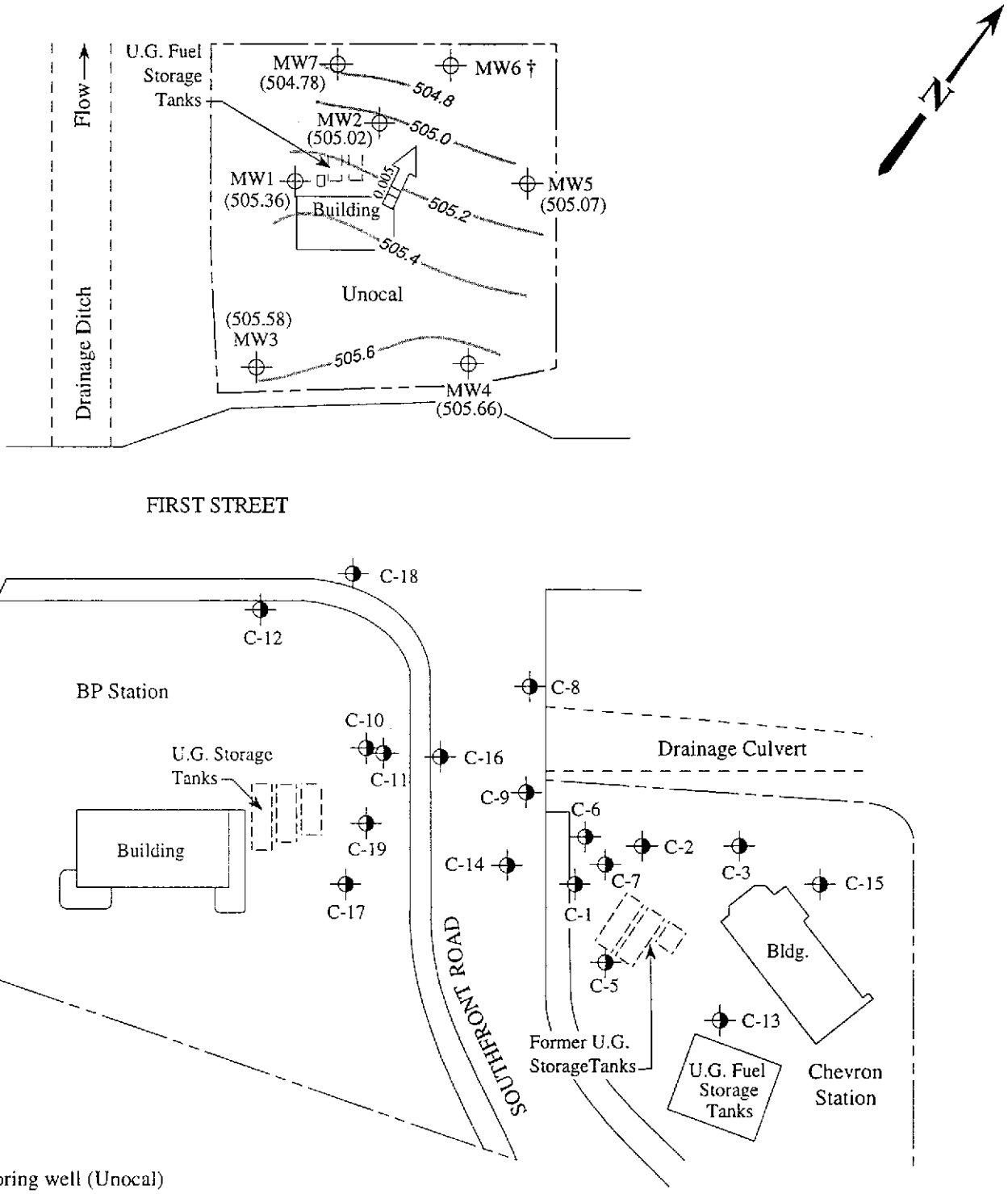


Base modified from 7.5 minute U.S.G.S. Livermore and Altamont Quadrangles (photorevised 1980 and 1981, respectively)

0 2000 4000

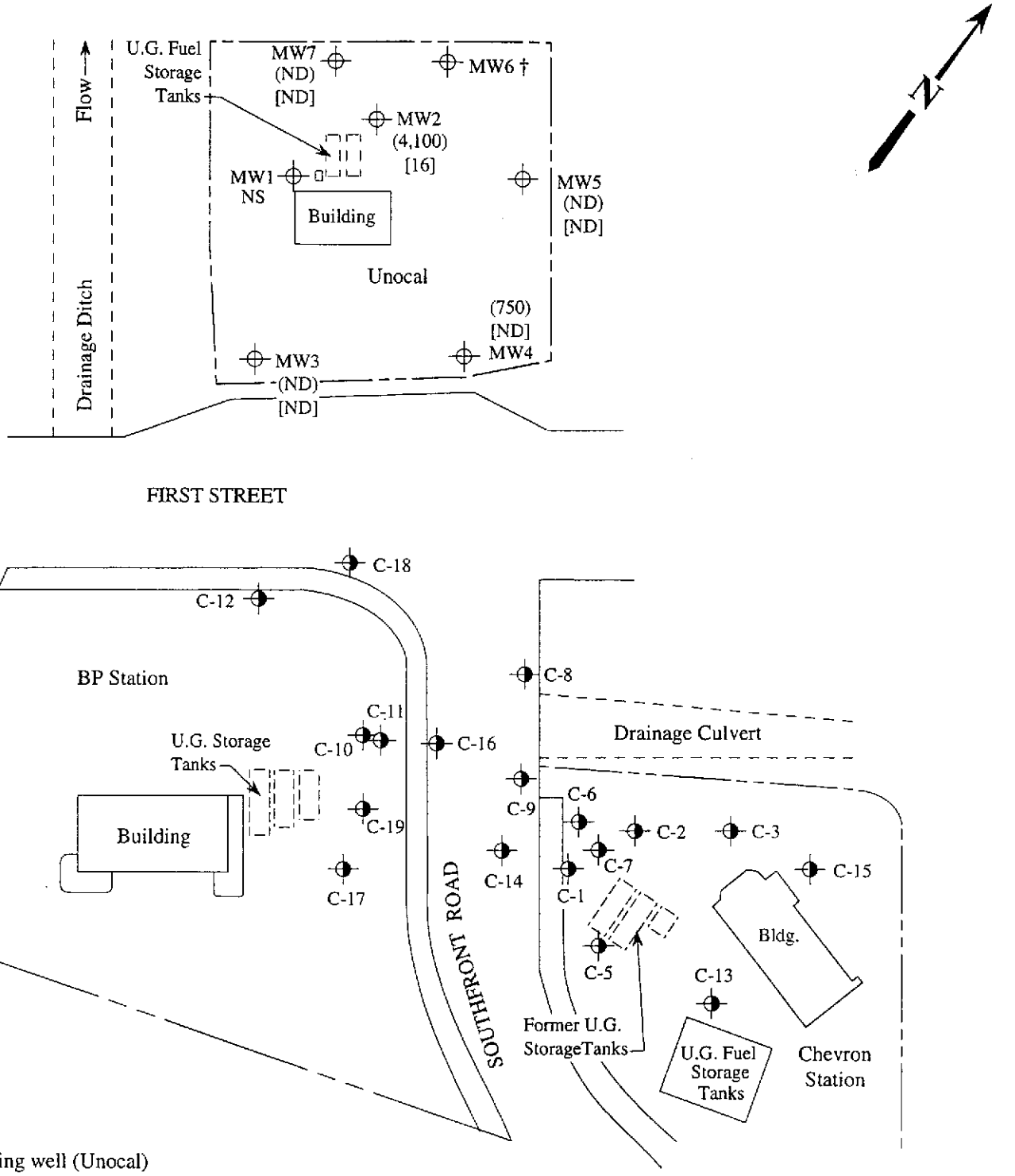
Approx. scale feet

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION # 6034** **4700 FIRST STREET** **LIVERMORE, CALIFORNIA**	**LOCATION MAP**



POTENTIOMETRIC SURFACE MAP FOR THE OCTOBER 19, 1994 MONITORING EVENT

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION # 6034** **4700 FIRST STREET** **LIVERMORE, CALIFORNIA**	FIGURE **1**



LEGEND

- Monitoring well (Unocal)
- Monitoring well (Chevron)
- ( ) Concentration of TPH as gasoline in µg/L
- [ ] Concentration of benzene in µg/L

ND = Non-detectable, NS = Not sampled

† Well was inaccessible.

0 80 160

Approx. scale feet

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON OCTOBER 19, 1994

mpds SERVICES, INCORPORATED

UNOCAL SERVICE STATION # 6034
4700 FIRST STREET
LIVERMORE, CALIFORNIA

FIGURE **2**

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #6034, 4700 1st Street, Livermore	Sampled: Oct 19, 1994
2401 Stanwell Dr., Ste. 400	Matrix Descript:	Water	Received: Oct 19, 1994
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: Nov 2, 1994
Attention: Avo Avedessian	First Sample #:	410-1369	

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
410-1369	MW-2	4,100	16	3.5	8.6	1,100
410-1370	MW-3	ND	ND	0.61	ND	0.51
410-1371	MW-4	750	ND	3.6	4.2	3.4
410-1372	MW-5	ND	ND	0.71	ND	0.57
410-1373	MW-7	ND	ND	0.87	ND	0.61
Detection Limits:		**50**	**0.50**	**0.50**	**0.50**	**0.50**

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
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2401 Stanwell Dr., Ste. 400	Matrix Descript:	Water	Received: Oct 19, 1994
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: Nov 2, 1994
Attention: Avo Avedessian	First Sample #:	410-1369	

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
410-1369	MW-2	Gasoline	5.0	10/27/94	HP-5	75
410-1370	MW-3	--	1.0	10/28/94	HP-2	98
410-1371	MW-4	Gasoline	5.0	10/28/94	HP-5	88
410-1372	MW-5	--	1.0	10/28/94	HP-2	97
410-1373	MW-7	--	1.0	10/27/94	HP-5	96

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
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MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #6034, 4700 1st Street, Livermore
Matrix: Liquid
QC Sample Group: 4101369-73

Reported: Nov 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	4101484	4101484	4101484	4101484
Date Prepared:	10/28/94	10/28/94	10/28/94	10/28/94
Date Analyzed:	10/28/94	10/28/94	10/28/94	10/28/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	105	105	110	108
Matrix Spike Duplicate % Recovery:	110	110	110	110
Relative % Difference:	4.6	4.6	0.0	1.8
LCS Batch#:	1LCS102894	1LCS102894	1LCS102894	1LCS102894
Date Prepared:	10/28/94	10/28/94	10/28/94	10/28/94
Date Analyzed:	10/28/94	10/28/94	10/28/94	10/28/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	97	106	116	115
% Recovery Control Limits:	71-133	72-128	72-130	71-120

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.

Sequoia Analytical

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MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #6034, 4700 1st Street, Livermore
Matrix: Liquid
QC Sample Group: 4101369-73
Reported: Nov 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	4101230	4101230	4101230	4101230
Date Prepared:	10/27/94	10/27/94	10/27/94	10/27/94
Date Analyzed:	10/27/94	10/27/94	10/27/94	10/27/94
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	90	105	105	107
Matrix Spike Duplicate % Recovery:	100	110	110	110
Relative % Difference:	1.0	4.6	4.6	2.8
LCS Batch#:	3LCS102794	3LCS102794	3LCS102794	3LCS102794
Date Prepared:	10/27/94	10/27/94	10/27/94	10/27/94
Date Analyzed:	10/27/94	10/27/94	10/27/94	10/27/94
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	92	100	103	101
% Recovery Control Limits:	71-133	72-128	72-130	71-120

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.

M P D S Services, Inc.
2401 Stanwell Drive, Suite 400, Concord, CA 94520
Tel: (510) 602-5120 Fax: (510) 689-1918

CHAIN OF CUSTODY

SAMPLER: (JOE) HOVSIA AJEMIAN
WITNESSING AGENCY:

UNOCAL S/S # 6034 CITY: Livermore
ADDRESS: 4700 1st St.

ANALYSES REQUESTED: TPH-GAS BTEX; TPH-DIESEL; TOG; 8010

TURN AROUND TIME: Regular

SAMPLE ID NO.	DATE	TIME	WATER	SOIL	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-GAS BTEX	TPH-DIESEL	TOG	8010				REMARKS
MW-2	10-19-94	2:15 P.M	✓	✓		2(VOA)	Wells	✓					4101369	A,B	VOA-s preserved
MW-3	"	1:08 P.M.	✓	✓		"	"	✓					4101370		
MW-4	"	1:40 P.M	✓	✓		"	"	✓					4101371		
MW-5	"	11:40 A.M	✓	✓		"	"	✓					4101372		
MW-7	"	12:30 P.M	✓	✓		"	"	✓					4101373		

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
(SIGNATURE) Joe Ajemian	10-19-94 3:40 P.M	21°C (SIGNATURE) CB 10/19/94 15:40
(SIGNATURE)		(SIGNATURE) 10/20/94 12:15
(SIGNATURE)	10/20/94 1330	(SIGNATURE) 10/21/94 1:30
(SIGNATURE)		(SIGNATURE)

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

1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? YES
2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? YES
3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? NO
4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? YES

SIGNATURE: TITLE: Analyst DATE: 10/19/94