MONITORING
PURGING
DISPOSING
SAMPLING
mpds SERVICES, INCORPORATED

MPDS-UN5901-03
July 7, 1994

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

Attention: Mr. Adadu Yemane

RE: Quarterly Data Report
Former Unocal Service Station #5901
11976 Dublin Boulevard
Dublin, California

Dear Mr. Yemane:

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 monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Prior to sampling, the wells were 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. The ground water elevations during the most recent quarter are shown on the attached Figure 1.

Ground water samples were collected on June 3, 1994. Prior to sampling, the wells were each purged of between 2 and 5.5 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 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 Table 2. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and benzene detected in the ground water

samples collected 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

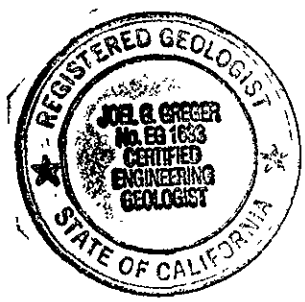
A copy of this report should be sent to Ms. Eva Chu of the Alameda County Health Care Services.

If you have any questions regarding this report, please do not hesitate to call 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

/dlh

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

cc: Mr. Timothy R. Ross, Kaprealian Engineering, Inc.

TABLE 1

SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)♦	Product Thickness (feet)	Sheen	Water Purged (gallons)	Total Well Depth (feet)♦
(Monitored and Sampled on June 3, 1994)						
MW1*	362.01	4.79	0	--	0	NM
MW3*	351.94	14.92	0	--	0	NM
MW4*	362.35	5.23	0	--	0	NM
MW5	351.25	14.30	0	No	5.5	25.02
MW6	344.34	21.34	0	No	2	25.12
(Monitored and Sampled on March 3, 1994)						
MW1*	362.05	4.75	0	--	0	19.81
MW3*	352.05	14.81	0	--	0	19.71
MW4*	362.42	5.16	0	--	0	19.74
MW5	351.64	13.91	0	No	8	25.03
MW6	346.47	19.21	0	No	4.5	25.11
(Monitored and Sampled on December 9, 1993)						
MW1	362.22	4.58	0	No	10.5	19.80
MW3	352.26	14.60	0	No	3.5	19.65
MW4*	362.53	5.05	0	--	0	19.76
MW5	352.01	13.54	0	No	8	25.04
MW6	344.03	21.65	0	No	2.5	25.12
(Monitored and Sampled on October 9, 1993)						
MW1	361.96	4.84	0	No	10.5	
MW3	351.59	15.27	0	No	3	
MW4*	362.29	5.29	0	--	0	
MW5	351.20	14.35	0	No	7.5	
MW6	341.54	24.14	0	No	1	

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

Well #	Well Casing Elevation (feet)**
MW1	366.80
MW3	366.86
MW4	367.58
MW5	365.55
MW6	365.68

◆ 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 National Geodetic Survey disk stamped "I-1257, reset 1975" (elevation = 439.93 MSL).

-- Sheen determination was not performed.

NM = Not Measured.

Note: - Wells MW1 and MW4, wells MW3 and MW5, and well MW6 are reportedly located in three separate hydrologic regions caused by fault splays.

- Monitoring data prior to December 9, 1993, were provided by Kaprealian Engineering, Inc.

TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
6/03/94	MW5	ND	ND	ND	ND	ND
	MW6	ND	ND	ND	ND	ND
3/03/94	MW5	ND	ND	0.84	ND	0.60
	MW6	150	2.4	2.8	ND	1.2
12/09/93	MW1♦	--	--	--	--	--
	MW3	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND
	MW6	790	0.64	1.0	ND	ND
10/09/93	MW5	ND	ND	ND	ND	ND
	MW6	480	1.8	0.63	0.81	ND
9/16/93	MW1♦	--	--	--	--	--
	MW3	ND	ND	ND	ND	ND
6/18/93	MW1♦	--	--	--	--	--
	MW3	ND	ND	ND	ND	ND
4/03/92	MW1*	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND
1/02/92	MW1*	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3**	38	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND
10/03/91	MW1*	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3	32	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
7/02/91	MW1*	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND
4/01/91	MW1*	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND
11/16/90	MW1*	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND

♦ All EPA method 8100 constituents (polynuclear aromatic hydrocarbons) were non-detectable.

* TPH as diesel, Total Oil & Grease (TOG), and EPA method 8010 constituents were all non-detectable for MW1.

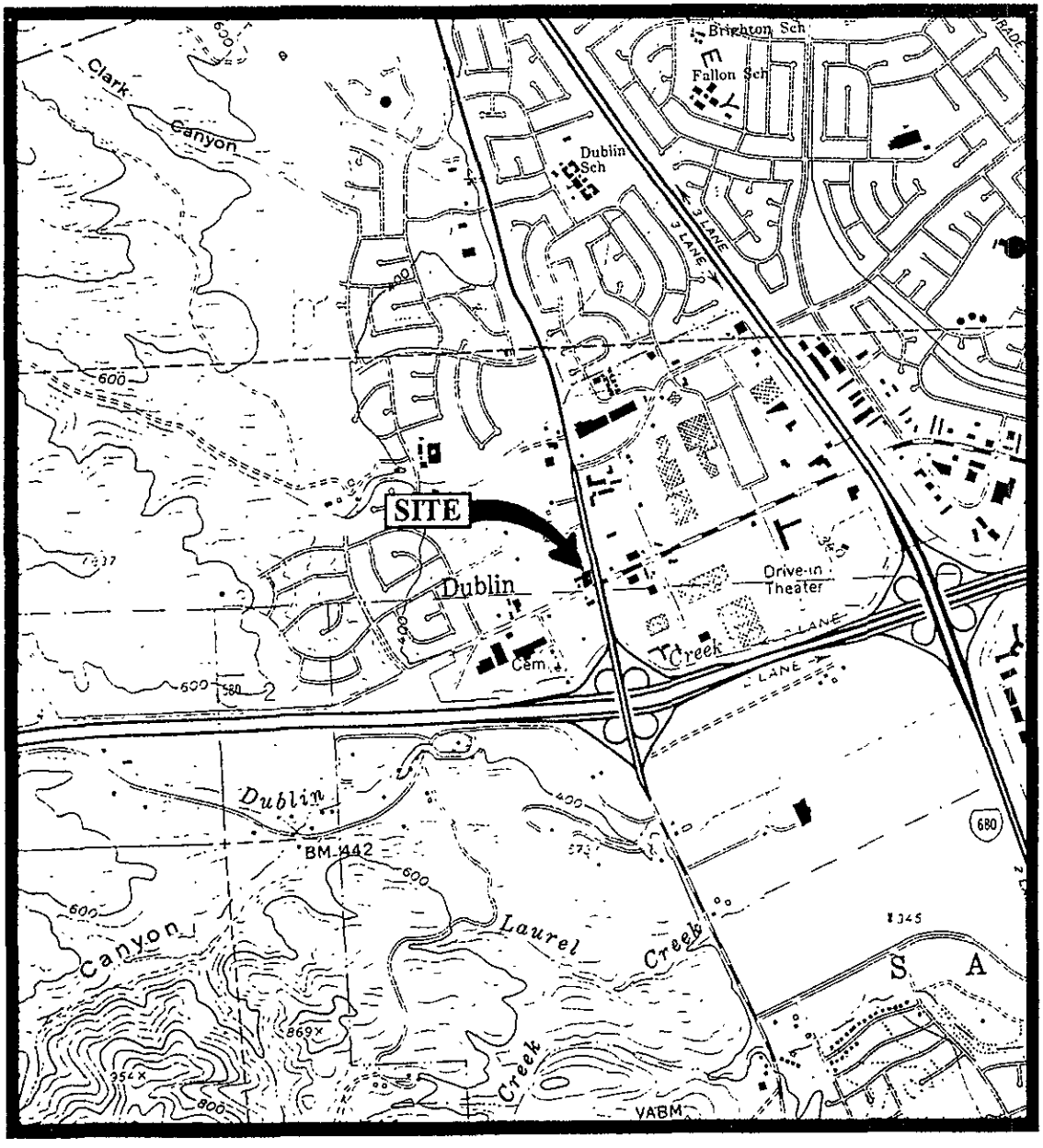
** All EPA method 8010 constituents were non-detectable.

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 December 9, 1993, were provided by Kaprealian Engineering, Inc.

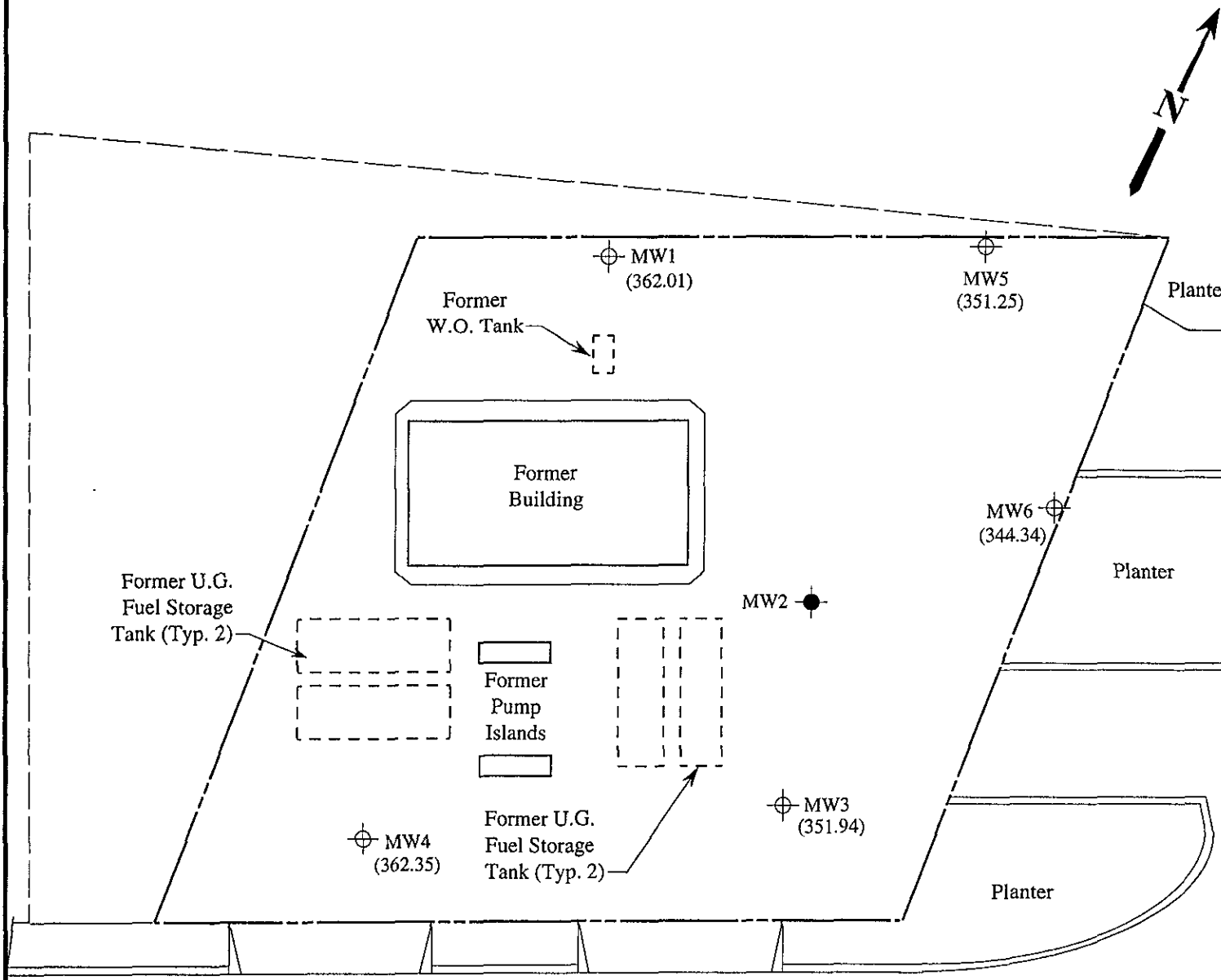


Base modified from 7.5 minute U.S.G.S. Dublin Quadrangle
(photorevised 1980)

0 2000 4000

Approx. scale feet

mpds SERVICES, INCORPORATED	FORMER UNOCAL S/S #5901 11976 DUBLIN BOULEVARD DUBLIN, CALIFORNIA	LOCATION MAP



LEGEND

- Monitoring well (existing)
- Monitoring well (previously destroyed)
- ( ) Ground water elevation in feet above Mean Sea Level

Note: The monitoring wells are reportedly located in separate hydrologic regimes caused by fault splays; therefore, ground water elevation contours are not shown.

0 30 60

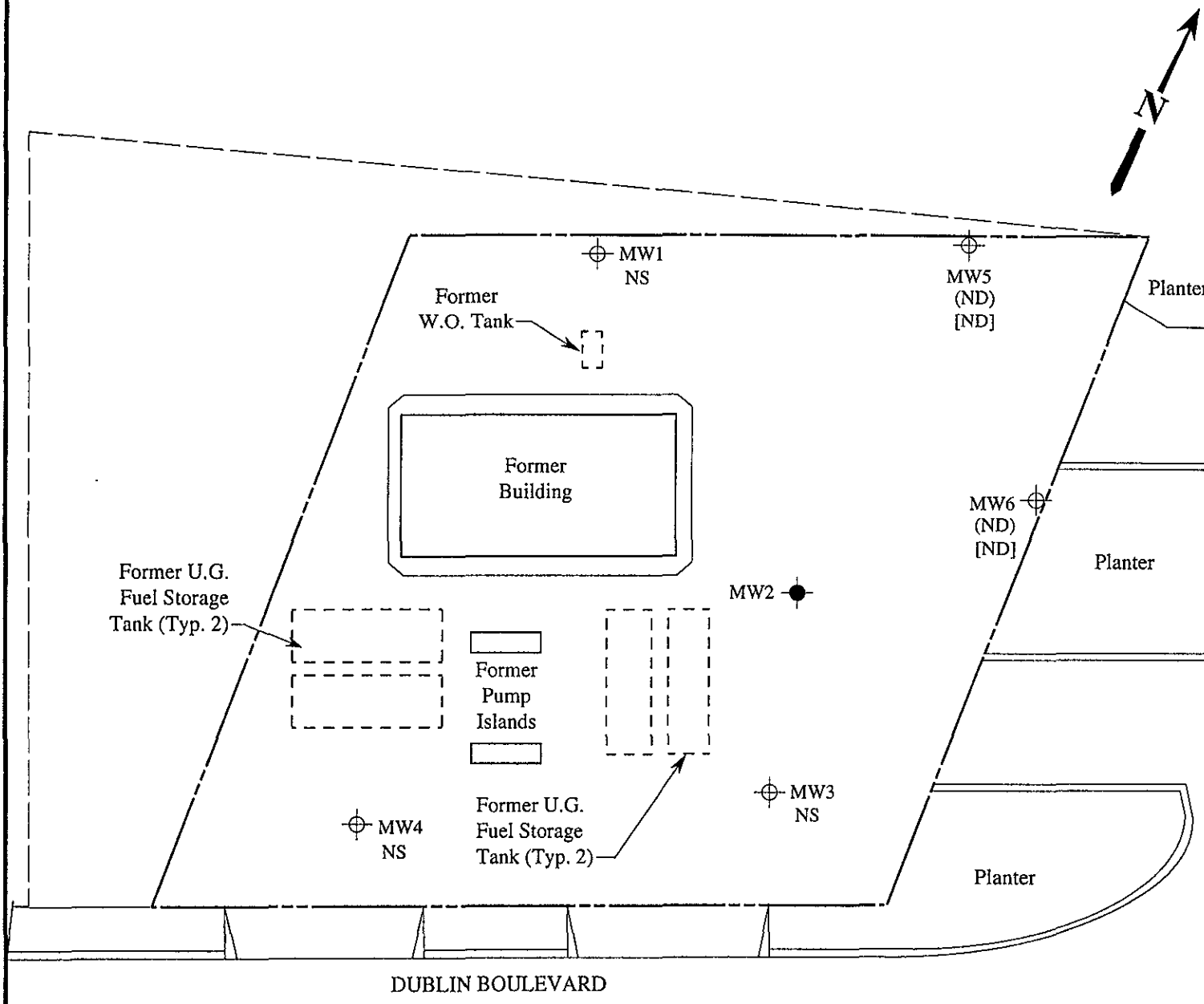
Approx. scale feet

GROUND WATER ELEVATION MAP FOR THE JUNE 3, 1994 MONITORING EVENT

mpds SERVICES, INCORPORATED

FORMER UNOCAL S/S #5901
11976 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA

FIGURE
1



LEGEND

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

ND = Non-detectable, NS = Not sampled

0 30 60

Approx. scale feet

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON JUNE 3, 1994

mpds SERVICES, INCORPORATED	**FORMER UNOCAL S/S #5901** **11976 DUBLIN BOULEVARD** **DUBLIN, 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
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #5901, 11976 Dublin Blvd, Dublin
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 406-0300

Sampled: Jun 3, 1994
Received: Jun 3, 1994
Reported: Jun 17, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 406-0300 MW5	Sample I.D. 406-0301 MW6
Purgeable Hydrocarbons	50	N.D.	N.D.
Benzene	0.5	N.D.	N.D.
Toluene	0.5	N.D.	N.D.
Ethyl Benzene	0.5	N.D.	N.D.
Total Xylenes	0.5	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	6/14/94	6/14/94
Instrument Identification:	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	102	95

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

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
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Project ID: Unocal #5901, 11976 Dublin Blvd, Dublin
Matrix: Liquid

QC Sample Group: 4060300-01

Reported: Jun 17, 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#:	4061513	4061513	4061513	4061513
Date Prepared:	6/14/94	6/14/94	6/14/94	6/14/94
Date Analyzed:	6/14/94	6/14/94	6/14/94	6/14/94
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:	130	105	105	115
Matrix Spike Duplicate % Recovery:	100	100	100	102
Relative % Difference:	26	4.9	4.9	12
LCS Batch#:	1LCS061494	1LCS061494	1LCS061494	1LCS061494
Date Prepared:	6/14/94	6/14/94	6/14/94	6/14/94
Date Analyzed:	6/14/94	6/14/94	6/14/94	6/14/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	110	107	107	108
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

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 # 5901 CITY: Dublin
ADDRESS: 11976 Dublin 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
mw-5	6-3-94	9:03 A.M	✓	✓		2(VOA)	Wells	✓								4060300
mw-6	"	9:17 A.M	✓	✓		"	"	✓								4060301

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
(SIGNATURE) Joe Ajemian	6-3-94 3:25	(SIGNATURE)
(SIGNATURE)	6.3.94 3:45	(SIGNATURE) R.J. Kelley 6/3/94 3:45 pm
(SIGNATURE)		(SIGNATURE)
(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: R.J. Kelley TITLE: Environ. Control DATE: 6/3/94