

MONITORING
PURGING
DISPOSING
SAMPLING

MPDS

SERVICES, INCORPORATED

ENVIRONMENTAL

95 AUG 22 PM 2:04

0.2

OK. 9/12/95

August 21, 1995

Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

RE: Unocal Service Station #6419
6401 Dublin Boulevard
Dublin, California

Per the request of the Unocal Corporation Project Manager, Mr. Edward C. Ralston, enclosed please find our report (MPDS-UN6419-04) dated June 9, 1995 for the above referenced site.

Should you have any questions regarding the reporting of data, please feel free to call our office at (510) 602-5120. Any other questions may be directed to the Project Manager at (510) 277-2311.

Sincerely,

MPDS Services, Inc.



Jarrel F. Crider

/jfc

Enclosure

cc: Mr. Edward C. Ralston

MPDS-UN6419-04
June 9, 1995

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 #6419
6401 Dublin 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 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 flow directions during the most recent quarter are shown on the attached Figures 1, 2, and 3.

Ground water samples were collected on May 17, 1995. Prior to sampling, the wells were each purged of between 8.5 and 9.5 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 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 this quarter are shown on the attached Figure 4. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

MPDS-UN6419-04

June 9, 1995

Page 2

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 Ms. Eva Chu of the Alameda County Health Care Services.

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.

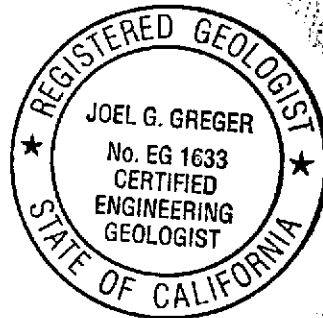


Sarkis A. Karkarian
Staff Engineer



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

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



/bp

Attachments: Tables 1, 2 & 3
Location Map
Figures 1 through 4
Laboratory Analyses
Chain of Custody documentation

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

TABLE 1**SUMMARY OF MONITORING DATA**

<u>Well #</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)◆</u>	<u>Total Well Depth (feet)◆</u>	<u>Product Thickness (feet)</u>	<u>Sheen</u>	<u>Water Purged (gallons)</u>
(Monitored and Sampled on May 17, 1995)						
MW1	324.19	6.26	19.35	0	No	9
MW2	324.25	6.15	19.52	0	No	10
MW3	324.23	6.88	19.03	0	No	8.5
(Monitored on April 6, 1995)						
MW1	324.83	5.62	19.33	0	--	0
MW2	324.89	5.51	19.77	0	--	0
MW3	322.91	8.20	18.99	0	--	0
(Monitored on March 13, 1995)						
MW1	324.81	5.64	★	0	--	0
MW2	324.81	5.59	★	0	--	0
MW3	324.81	6.30	★	0	--	0
(Monitored and Sampled on February 15, 1995)						
MW1	324.16	6.29	19.36	0	No	9
MW2	324.24	6.16	19.83	0	No	10
MW3	324.18	6.93	19.04	0	No	8.5
(Monitored and Sampled on November 18, 1994)						
MW1	322.76	7.69	19.35	0	No	8
MW2	322.73	7.67	19.81	0	No	8.5
MW3	322.72	8.39	19.03	0	No	7.5
(Monitored and Sampled on August 25, 1994)						
MW1	321.88	8.57	19.34	0	No	8
MW2	321.99	8.41	19.81	0	No	8
MW3	321.91	9.20	19.02	0	No	7

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Well Casing Elevation (feet)*</u>
MW1	330.45
MW2	330.40
MW3	331.11

- ◆ The depth to water level and total well depth measurements were taken from the top of the well casings.
- * The elevations of the top of the well casings have been surveyed relative to Mean Sea Level, per the benchmark on the northwest corner of Dougherty Road and Sierra Way (elevation = 331.728 feet MSL).
- ★ Total well depth not measured.

TABLE 2

**SUMMARY OF LABORATORY ANALYSES
 WATER**

<u>Date</u>	<u>Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>
5/17/95▲	MW1	200◆◆	130	0.75	ND	1.5	ND
	MW2	--	ND	ND	ND	ND	ND
	MW3	--	99**	ND	ND	ND	ND
2/15/95▲	MW1	660◆	3,300	13	ND	180	5.2
	MW2	--	ND	ND	ND	ND	ND
	MW3	--	130**	ND	ND	ND	ND
11/18/94	MW1	910◆◆	5,100	33	ND	560	38
	MW2	--	ND	ND	ND	ND	ND
	MW3	--	130**	ND	ND	ND	ND
8/25/94	MW1	910◆◆	9,200*	48	ND	540	ND
	MW2	--	ND	ND	ND	ND	ND
	MW3	--	130**	ND	ND	ND	ND
3/14/94	MW1	810◆	1,800*	17	ND	ND	ND
	MW2	--	ND	ND	2.8	1.1	8.0
	MW3	--	150**	ND	ND	ND	ND

TABLE 2 (Continued)

**SUMMARY OF LABORATORY ANALYSES
WATER**

- ◆ 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.
- * Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- ** Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- ▲ Dissolved oxygen was detected as follows:
 - On February 1995; 4.3 mg/L, 1.9 mg/L, and 2.6 mg/L in wells MW1, MW2, and MW3, respectively.
 - On May 1995; 1.2 mg/L and 1.13 mg/L in wells MW1 and MW3, respectively.

ND = Non-detectable.

-- Indicates analysis was not performed.

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

Note: Laboratory analyses data prior to August 25, 1994, were provided by Kaprealian Engineering, Inc.

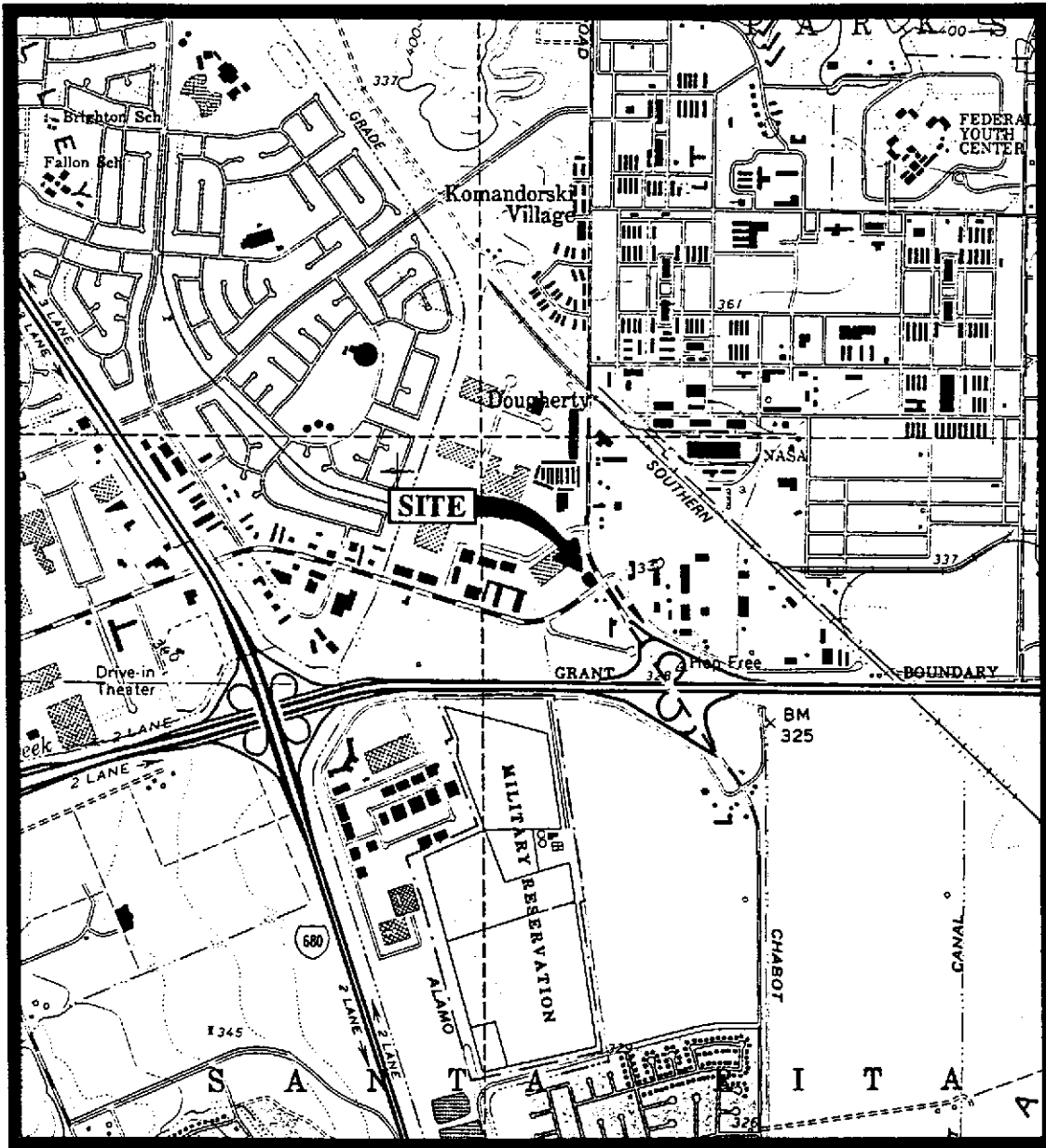
TABLE 3SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	<u>Well #</u>	<u>Cadmium</u>	<u>Chromium</u>	<u>Lead</u>	<u>Nickel</u>	<u>Zinc</u>
5/17/95	MW1	ND	ND	ND	0.021	ND
2/15/95	MW1	ND	ND	ND	ND	ND
11/18/94	MW1	ND	0.076	ND	0.067	ND
8/25/94	MW1	ND	ND	0.024	ND	ND
3/14/94	MW1	ND	0.012	ND	0.030	0.039

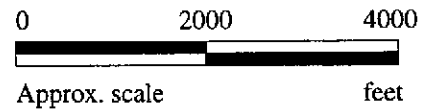
ND = Non-detectable.

Results are in milligrams per liter (mg/L), unless otherwise indicated.

Note: Laboratory analyses data prior to August 25, 1994, were provided by Kaprealian Engineering, Inc.



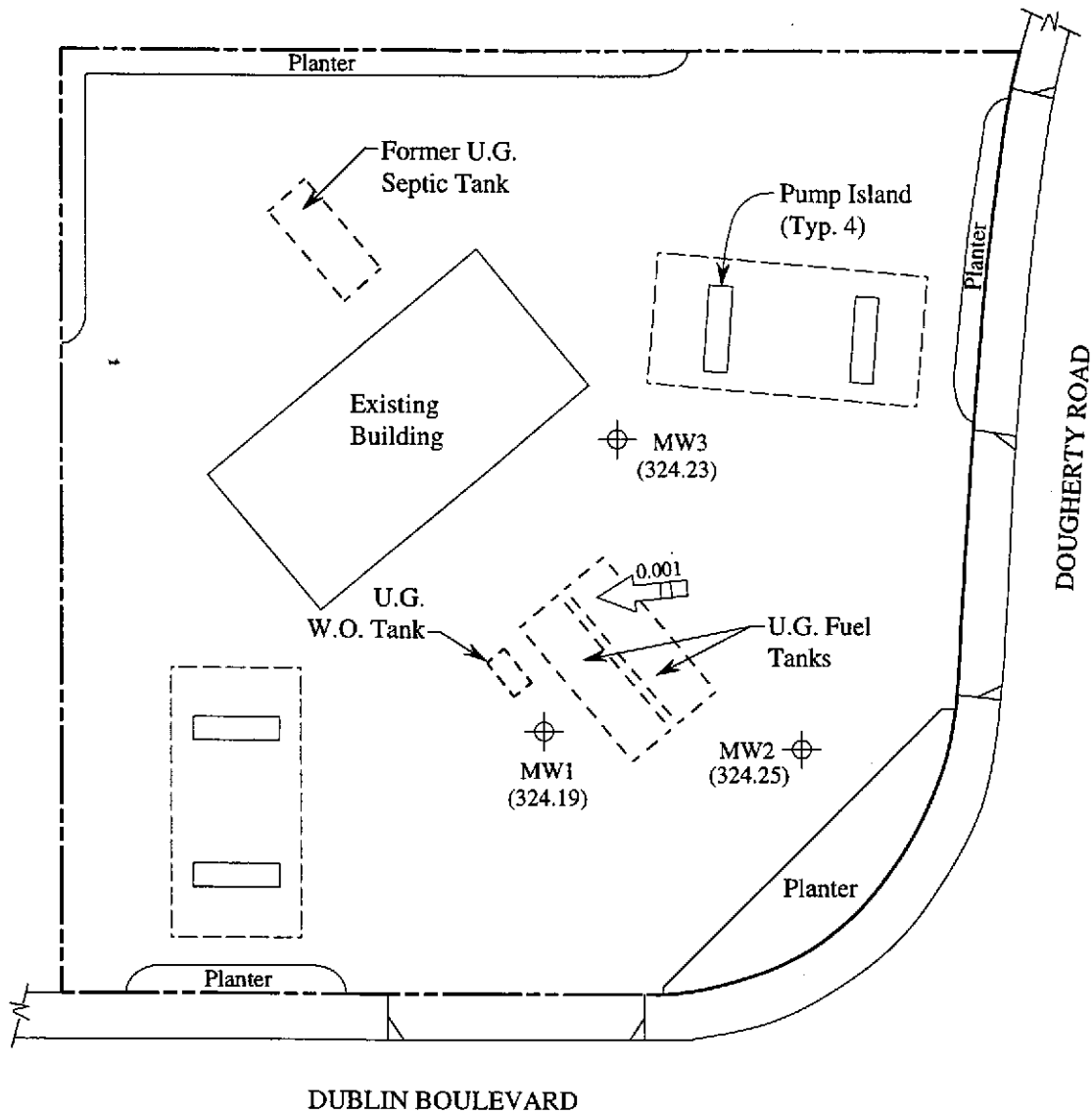
Base modified from 7.5 minute U.S.G.S. Dublin Quadrangle
(photorevised 1980)






MPDS SERVICES, INCORPORATED

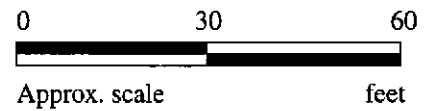
**UNOCAL SERVICE STATION #6419
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

**LOCATION
MAP**



LEGEND

-  Monitoring well
-  Ground water elevation in feet above Mean Sea Level
-  Direction of ground water flow with approximate hydraulic gradient

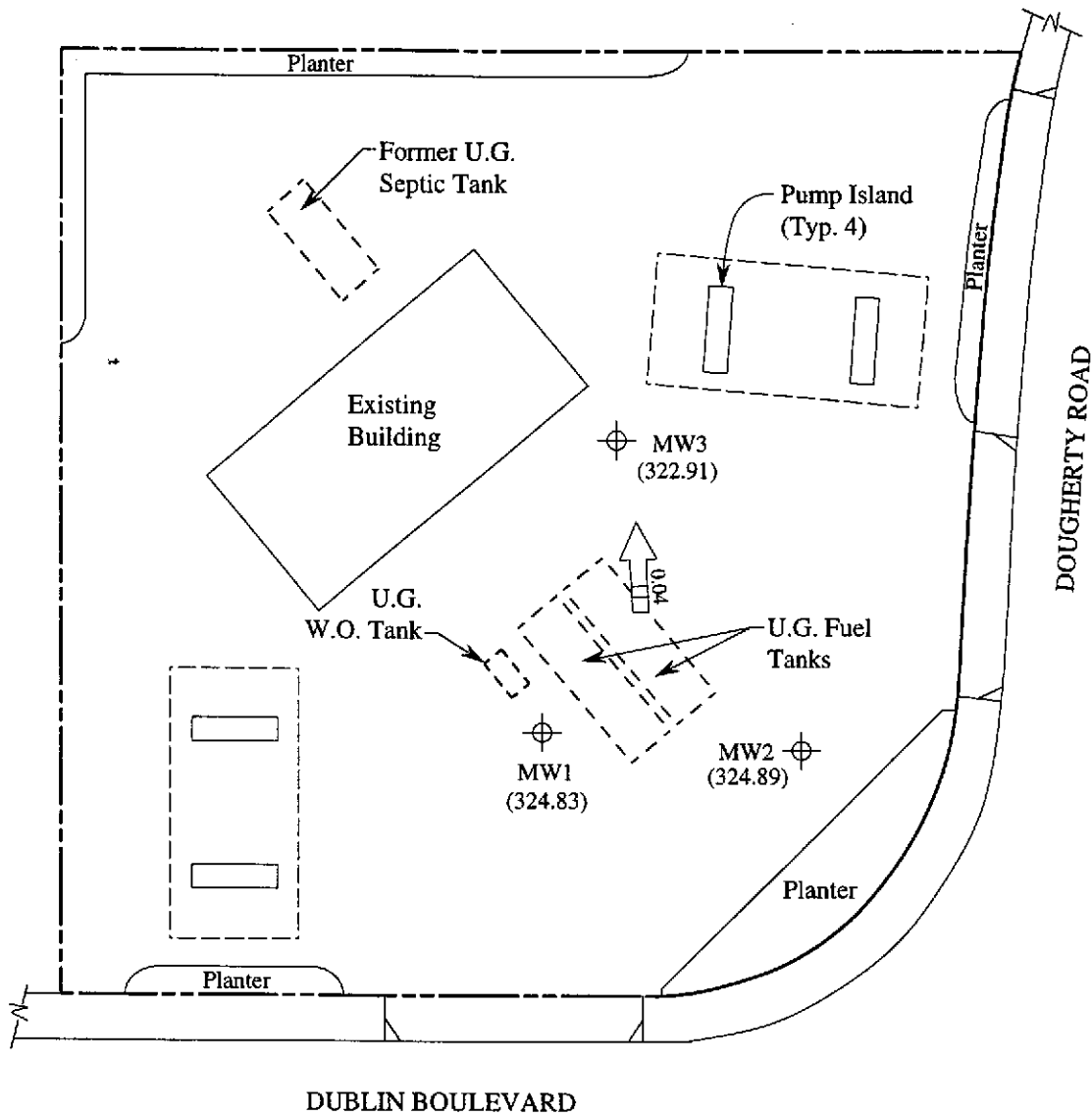
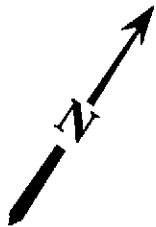


GROUND WATER FLOW DIRECTION MAP FOR THE MAY 17, 1995 MONITORING EVENT






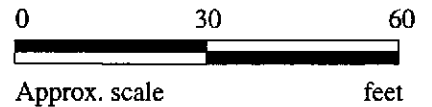
**UNOCAL SERVICE STATION #6419
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

**FIGURE
1**



LEGEND

-  Monitoring well
-  Ground water elevation in feet above Mean Sea Level
-  Direction of ground water flow with approximate hydraulic gradient

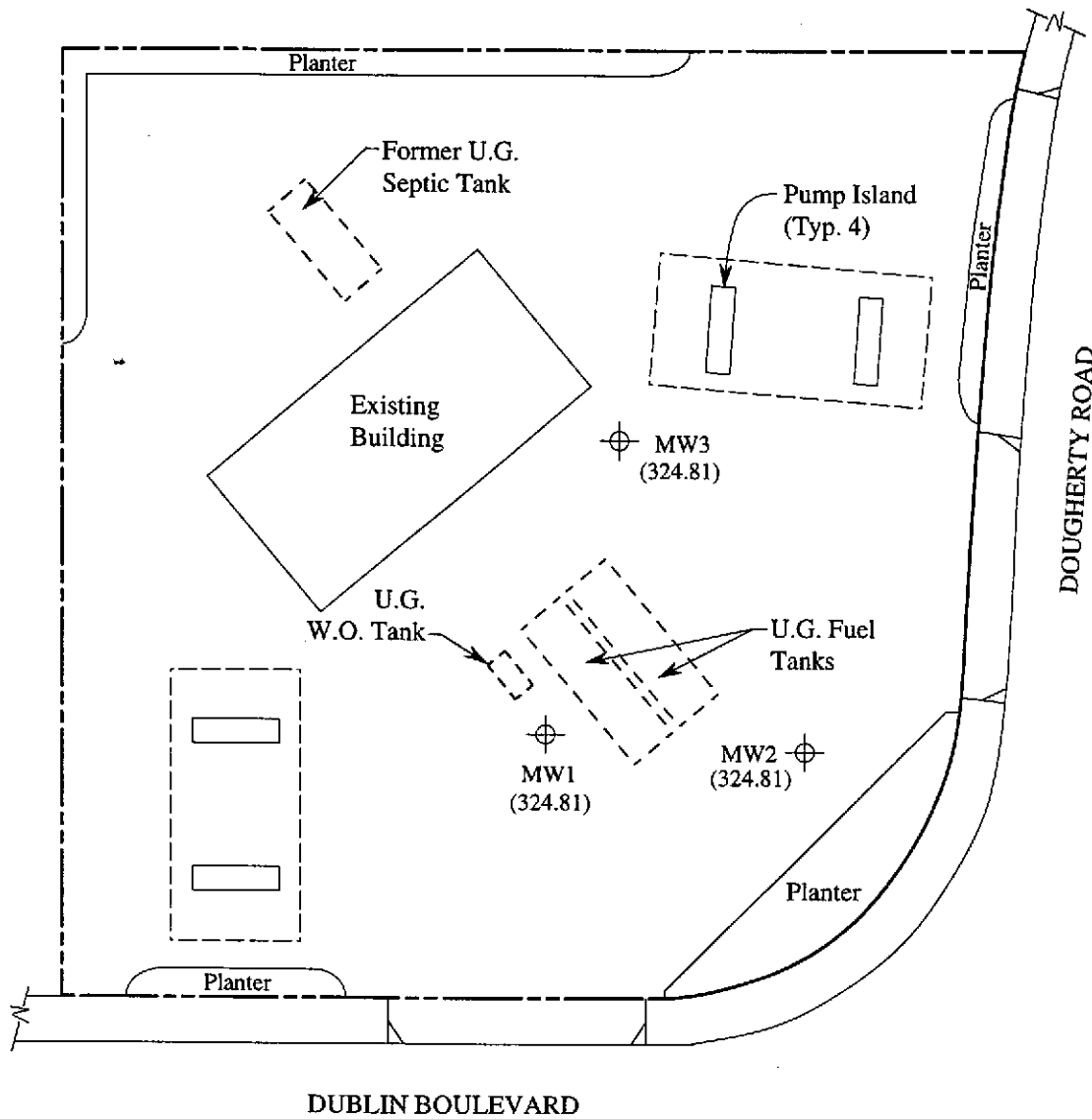


GROUND WATER FLOW DIRECTION MAP FOR THE APRIL 6, 1995 MONITORING EVENT



**UNOCAL SERVICE STATION #6419
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

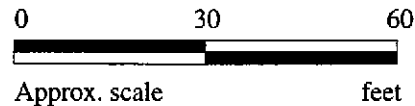
**FIGURE
2**



LEGEND

⊕ Monitoring well

() Ground water elevation in feet above Mean Sea Level

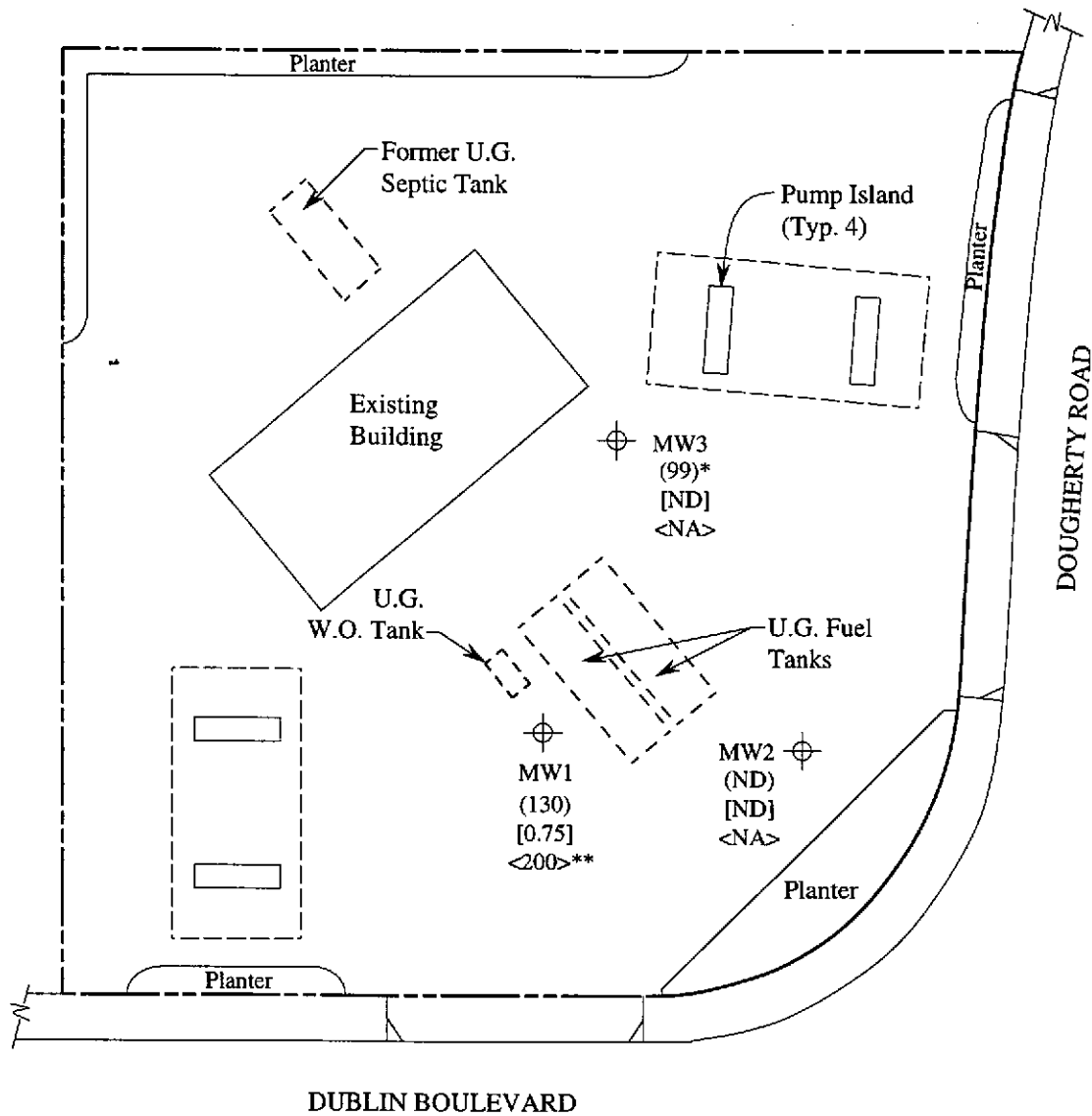
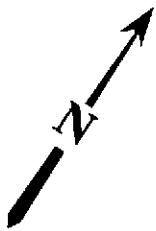


GROUND WATER ELEVATION MAP FOR THE MARCH 13, 1995 MONITORING EVENT



**UNOCAL SERVICE STATION #6419
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

**FIGURE
3**



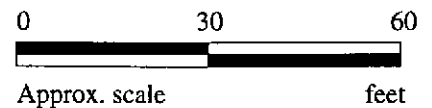
LEGEND

- ⊕ Monitoring well
- () Concentration of TPH as gasoline in $\mu\text{g/L}$
- [] Concentration of benzene in $\mu\text{g/L}$
- < > Concentration of TPH as diesel in $\mu\text{g/L}$

ND = Non-detectable, NA = Not analyzed

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

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



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON MAY 17, 1995



**UNOCAL SERVICE STATION #6419
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

**FIGURE
4**



MPDS Services	Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin	Sampled: May 17, 1995
2401 Stanwell Dr., Ste. 300	Matrix Descript: Water	Received: May 17, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Reported: Jun 1, 1995
Attention: Sarkis Karkarian	First Sample #: 505-1184	

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
505-1184	MW-1	130	0.75	ND	1.5	ND
505-1185	MW-2	ND	ND	ND	ND	ND
505-1186	MW-3	99*	ND	ND	ND	ND

* Hydrocarbons detected did not appear to be gasoline.

Detection Limits:	50	0.50	0.50	0.50	0.50
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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





MPDS Services	Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin	Sampled: May 17, 1995
2401 Stanwell Dr., Ste. 300	Matrix Descript: Water	Received: May 17, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Reported: Jun 1, 1995
Attention: Sarkis Karkarian	First Sample #: 505-1184	

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
505-1184	MW-1	Gasoline	1.0	5/19/95	HP-5	96
505-1185	MW-2	--	1.0	5/19/95	HP-9	87
505-1186	MW-3	Discrete Peak*	1.0	5/19/95	HP-5	90

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Please Note:
* "Discrete Peak" refers to an unidentified peak in the MTBE range.





MPDS Services 2401 Starwell Dr., Ste. 300 Concord, CA 94520 Attention: Sarkis Karkarian	Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin Sample Matrix: Water Analysis Method: EPA 3510/8015 First Sample #: 505-1184	Sampled: May 17, 1995 Received: May 17, 1995 Reported: Jun 1, 1995
--	--	--

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 505-1184 MW-1*
Extractable Hydrocarbons	50	200

Chromatogram Pattern: Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	5/22/95
Date Analyzed:	5/23/95
Instrument Identification:	HP-3A

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 does not appear to contain diesel. "Unidentified Hydrocarbons <C15" are probably gasoline.





MPDS Services	Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin	Sampled: May 17, 1995
2401 Stanwell Dr., Ste. 300	Sample Descript: Water, MW-1	Received: May 17, 1995
Concord, CA 94520		Analyzed: May 25, 1995
Attention: Sarkis Karkarian	Lab Number: 505-1184	Reported: Jun 1, 1995

LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Cadmium.....	0.010	N.D.
Chromium.....	0.010	N.D.
Lead.....	0.020	N.D.
Nickel.....	0.020	0.021
Zinc.....	0.020	N.D.

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





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Sarkis Karkarian

Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin
Matrix: Liquid

QC Sample Group: 5051184-786

Reported: Jun 2, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere

MS/MSD Batch#:	5051176	5051176	5051176	5051176
Date Prepared:	5/19/95	5/19/95	5/19/95	5/19/95
Date Analyzed:	5/19/95	5/19/95	5/19/95	5/19/95
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:	80	90	95	97
Matrix Spike Duplicate % Recovery:	80	90	90	95
Relative % Difference:	0.0	0.0	5.4	2.1

LCS Batch#:	3LCS051995	3LCS051995	3LCS051995	3LCS051995
Date Prepared:	5/19/95	5/19/95	5/19/95	5/19/95
Date Analyzed:	5/19/95	5/19/95	5/19/95	5/19/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	87	94	98	99

% Recovery Control Limits:	71-133	72-128	72-130	71-120
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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, #1271

Signature on File
Alan B. Kemp
Project Manager





MPDS Services
 2401 Stanwell Dr., Ste. 300
 Concord, CA 94520
 Attention: Sarkis Karkarian

Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin
 Matrix: Liquid

QC Sample Group: 5051184-186

Reported: Jun 2, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere	J. Dinsay

MS/MSD

Batch#:	5051152	5051152	5051152	5051152	BLK052295
Date Prepared:	5/19/95	5/19/95	5/19/95	5/19/95	5/22/95
Date Analyzed:	5/19/95	5/19/95	5/19/95	5/19/95	5/23/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike % Recovery:	95	105	110	115	72
Matrix Spike Duplicate % Recovery:	90	100	105	110	81
Relative % Difference:	5.4	4.9	4.7	4.4	12

LCS Batch#:	4LCS051995	4LCS051995	4LCS051995	4LCS051995	BLK052295
Date Prepared:	5/19/95	5/19/95	5/19/95	5/19/95	5/22/95
Date Analyzed:	5/19/95	5/19/95	5/19/95	5/19/95	5/23/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP3A
LCS % Recovery:	96	98	100	112	72

% Recovery Control Limits:	71-133	72-128	72-130	71-120	38-122
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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, #1271

Signature on File

Alan B. Kemp
 Project Manager





MPDS Services Client Project ID: Unocal #6419, 6401 Dublin Blvd., Dublin
 2401 Stanwell Dr., Ste. 300 Matrix: Liquid
 Concord, CA 94520
 Attention: Sarkis Karkarian QC Sample Group: 5051184-186 Reported: Jun 2, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Lead	Nickel	Zinc
Method:	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang	L. Huang

MS/MSD					
Batch#:	5051207	5051207	5051184	5051207	5051207
Date Prepared:	5/18/95	5/18/95	5/25/95	5/18/95	5/18/95
Date Analyzed:	5/25/95	5/25/95	5/25/95	5/25/95	5/25/95
Instrument I.D.#:	Liberty-100	Liberty-100	Liberty-100	Liberty-100	Liberty-100
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Matrix Spike					
% Recovery:	109	99	88	98	104
Matrix Spike Duplicate %					
Recovery:	108	100	92	98	111
Relative % Difference:	0.92	1.0	4.4	0.0	6.5

LCS Batch#:	BLK051895	BLK051895	BLK051895	BLK051895	BLK051895
Date Prepared:	5/18/95	5/18/95	5/25/95	5/18/95	5/18/95
Date Analyzed:	5/25/95	5/25/95	5/25/95	5/25/95	5/25/95
Instrument I.D.#:	Liberty-100	Liberty-100	Liberty-100	Liberty-100	Liberty-100
LCS % Recovery:	98	100	91	96	100

% Recovery Control Limits:	75-125	75-125	75-125	75-125	75-125
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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, #1271

Signature on File

Alan B. Kemp
Project Manager



M P D S Services, Inc.

2401 Starwood Drive, Suite 400, Concord, CA 94620

Tel: (510) 602-6120 Fax: (510) 689-1918

CHAIN OF CUSTODY

SAMPLER			UNOCAL					ANALYSES REQUESTED					TURN AROUND TIME:		
STEVE BALIAN			S/S # <u>6419</u> CITY: <u>DUBLIN</u>					TPH-GAS BTEX	TPH-DIESEL	TOG	8010	5-METALS			REGULAR
WITNESSING AGENCY			ADDRESS: <u>6401 DUBLIN BLVD.</u>												
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION								
MW-1	5-17-95	12:15	X	X		4	WELL	X	X			X	5051194A-D		
MW-2	"	11:30	X	X		2	"	X					5051195A-B		
MW-3	"	11:15	X	X		2	"	X					5051196A-B		

RELINQUISHED BY:		DATE/TIME	RECEIVED BY:	THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:		
STEVE BALIAN		5-17-95	14:00	<i>[Signature]</i>	14:00	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE?
(SIGNATURE)				(SIGNATURE)		yes
(SIGNATURE)				(SIGNATURE)		2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED?
(SIGNATURE)				(SIGNATURE)		yes
(SIGNATURE)				(SIGNATURE)		3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE?
(SIGNATURE)				(SIGNATURE)		No
(SIGNATURE)				(SIGNATURE)		4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED?
(SIGNATURE)				(SIGNATURE)		yes
				SIGNATURE:	TITLE:	DATE:
				<i>[Signature]</i>	<i>[Signature]</i>	5-17-95