

# **RECEIVED**

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Alameda County Environmental Health

SHE# 5325 SS BP TRANSMITTAL 1 2 3 4 5 6

QUARTERLY MONITORING REPORT



December 31, 1992

Unocal Corporation P.O. Box 5155 San Ramon, California 94583

Attn: Mr. Tim Howard

Re: QUARTERLY MONITORING REPORT

Unocal Service Station #5325

3220 Lakeshore Avenue

Oakland, California

Mr. Howard:

This Quarterly Monitoring Report has been prepared by GeoStrategies Inc. (GSI) and presents the results of the 1992 fourth quarter sampling for the above-referenced site (Plate 1).

There are currently three monitoring wells at the site; Wells U-1, U-2, and U-3 (Plate 2). These wells were installed in 1990 by GSI.

### CURRENT QUARTER SAMPLING RESULTS

Depth to water measurements were obtained in each monitoring well on November 6, 1992. Static ground-water levels were measured from the surveyed top of the well box and recorded to the nearest  $\pm 0.01$  foot. Water-level elevations were referenced to Mean Sea Level (MSL) datum and are presented in Table 1. Water-level data were used to construct a quarterly potentiometric map (Plate 3). Shallow ground-water flow direction is to the southwest with an approximate hydraulic gradient of 0.005.

Each well was checked for the presence of floating product. Floating product was not observed in the wells this quarter. The field data sheets are included in Appendix A.

Unocal Corporation December 31, 1992 Page 2

Ground-water samples were collected on November 6, 1992. Samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline), according to EPA Method 8015 (Modified) and for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. The ground-water samples were analyzed by National Environmental Testing (NET) Pacific, Inc., a California State-certified laboratory located in Santa Rosa, California. The laboratory analytical report and Chain-of-Custody form are included in Appendix B. These data are summarized and included with the historical chemical analytical data presented in Table 2. A chemical concentration map for benzene is presented on Plate 4. Field methods and procedures were presented in a previous GSI report dated April 28, 1992.

If you have any questions, please call.

GeoStrategies Inc. by,

Clyde J. Galantine

Geologist

Diane M. Lundquist, P.E.

Senior Engineer

C 46725

CJG/DML/rmt

Plate 1. Vicinity Map

Plate 2. Site Plan

Plate 3. Potentiometric Map

Plate 4. Benzene Concentration Map

Appendix A:Field Data Sheets

Appendix B: Laboratory Analytical Report and Chain-of-Custody Form

NO. C46725

QC Review:

TABLE 1

### FIELD MONITORING DATA

WELL NO.	MONITORING DATE	CASING DIA.	TOTAL WELL DEPTH (FT)	(FT)	DEPTH TO WATER (FT)	PRODUCT Thickness (FT)	• • •	PURGED WELL VOLUMES	ρΗ	TEMPERATURE (F)	CONDUCTIVITY (u NHOS/CM)
U-1	06-Nov-92	3	20.0	5.75	9.11	**	(-3.36)	5	6.96	70.9	1988
U-5	06-Nov-92	3	19.9	4.94	8.71		(-3.77)	2	6.47	72.1	4330
<b>1</b> 8-3	06-Nov-92	3	20.0	8.14	12.0	****	(-3,86)	2	7.42	70.6	863

Notes: 1. Static water elevations referenced to Mean Sea Level (MSL).

<sup>2.</sup> Physical parameter measurements represent stabilized values.

<sup>3.</sup> pH values reported in pH units.

•••••				• • • • • • • • • • •		
SAMPLE	SAMPLE	TPH·G	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
DATE	POINT	(PP9)	(PPB)	(PPB)	(PPB)	(PPB)
	=========					******
08-Oct-90	U-1	690,	38.	75.	8.6	130
07-Jan-91	U-1	250.	22.	16.	4.2	17
01-Apr-91	U-1	160.	13.	8.6	1.0	15
03 - Jul - 91	U-1	140	21	4.3	0.36	1
09-0ct-91	U-1	<30	<0.30	<0.30	<0.30	<0.3
12-Feb-92	U-1	250	<0.30	<0.30	<0.30	<0.30
05-Hay-92	U-1	230	1.2	<0.5	<0.5	<0.
20-Aug-92	U-1	400*	1	<0.5	<0.5	0
06-Nov-92	U-1	1000	80	1.4	6.7	4
08-0ct-90	u-2	780,	27.	46.	15.	130
07- Jan-91	ีป-2	1900.	67.	5.8	58.	69
01-Apr-91	U-2	1700.	250.	89.	34.	190
19-Jul	U·2	2100	150	25	3.1	29
09-0ct-91	U-2	230	7.1	<0.30	<0.30	1
12 Feb 92	U-2	410	1.9	<0.30	0.36	0.4
05 · Nay · 92	U-2	1600	120	52	6.2	290
20-Aug-92	U-2	700	28	6.5	1.3	4.1
06-Nov-92	U-2	620	17	2.1	<0.5	3
08-0ct-90	u-3	<50.	<0.5	<0.5	<0.5	<0.5
07-Jan-91	U-3	< <b>50.</b>	<0.5	<0.5	<0.5	1.4
01-Apr-91	U·3	<50.	1.0	2.9	0.53	5.4
19-1ut-20	u-3	<30	<0.30	<0.30	<0.30	<0.30
09-Oct-91	U-3	<30	<0.30	<0.30	<0.30	<0.36
12-Feb-92	U-3	<30	<0.30	<0.30	<0.30	<0.30
05-May-92	U-3	<50	<0.5	<0.5	<0.5	<0.5
20-Aug-92	U-3	<50	<0.5	<0.5	<0.5	<0.5
06-Nov-92	<b>U</b> ∙3	<50	<0.5	<0.5	<0.5	<0.5

TABLE 2

			ND-WATER QUA		========= ASE	<b>222</b> 222222
SAMPLE	SAMPLE	TPH-G	BENZENE	TOLUEME	ETHYLBENZENE	XYLENES
DATE	POINT	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)

IPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

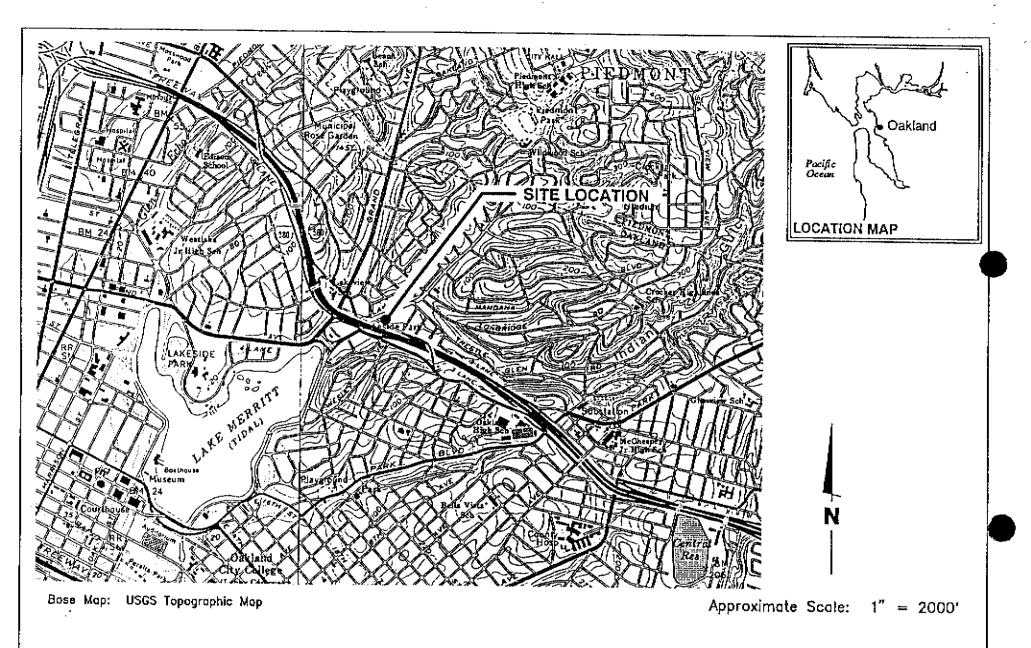
PPB = Parts Per Billion

NOTE 1. All data shown as <% are reported as ND (none detected).

\* The positive result for gasoline does not appear to have a typical gasoline pattern.



# **ILLUSTRATIONS**



Vicinity Map UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

DATE

REVIEWED BY RG/CEG

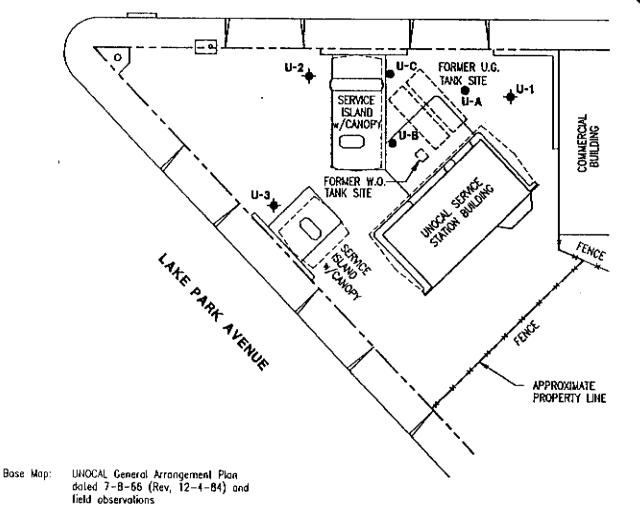
6/90

JOS NUMBER 7814

REVISED DATE

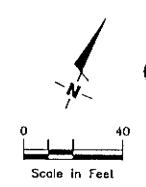
PLATE

### **LAKESHORE AVENUE**



# **EXPLANATION**

- Ground-water monitoring well
- Soil boring



PLATE

GeoStrategies Inc.

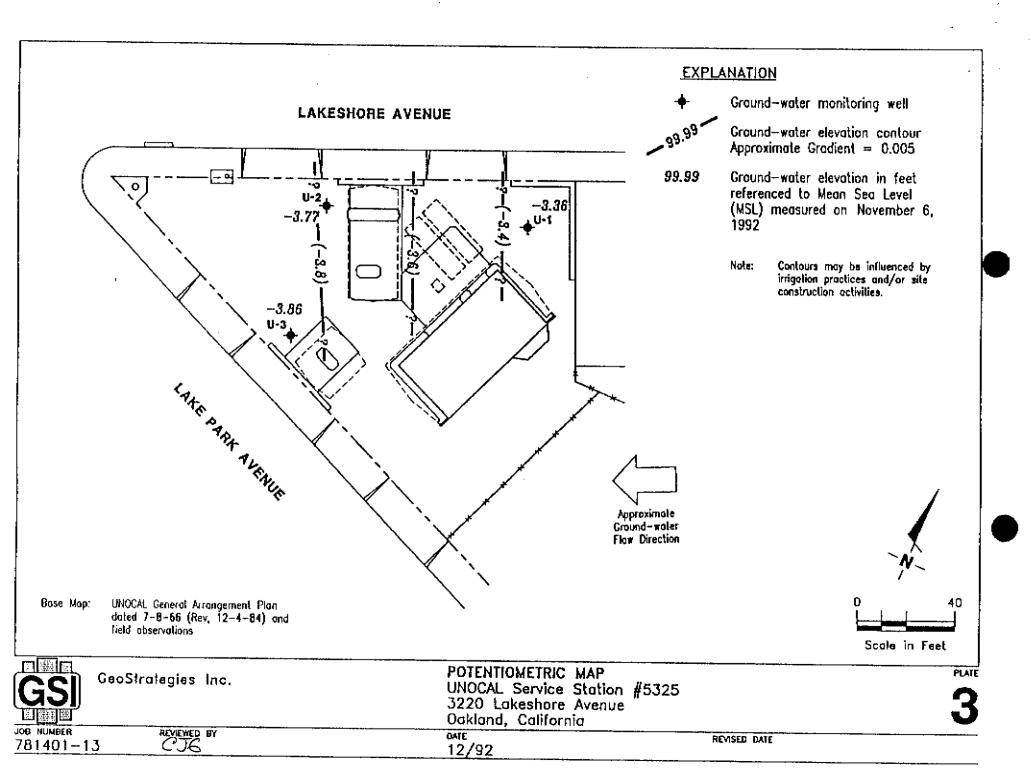
SITE PLAN UNOCAL Service Station #5325 3220 Lakeshore Avenue Ookland, California

REVISED DATE

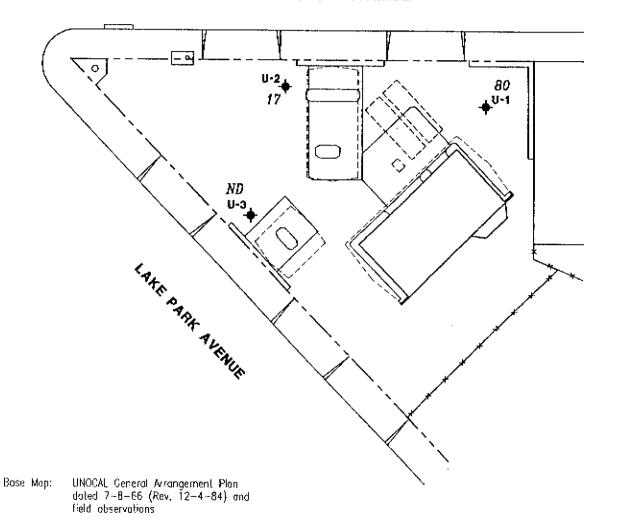
JOB NUMBER 7814

REVIEWED BY

DATE 5/92

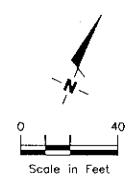


## LAKESHORE AVENUE



# **EXPLANATION**

- Ground-water monitoring well
- 0.05 Benzene concentration in ppb sampled on November 6, 1992
- ND Not Detected (See laboratory reports for detection limits)





GeoStrategies Inc.

BENZENE CONCENTRATION MAP UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

DATE

12/92

REVISED DATE

4

PLATE

JOB NUMBER 781401-13 REVIEWED BY



# APPENDIX A FIELD DATA SHEETS

# GETTLER-RYANDING.

General and Environmental Contractors

# WELL SAMPLING FIELD DATA SHEET

mber			
BIXE			
(317			"
مىر	If yes, time	Volume	
		,	
6.96	1988	7-0.9	22,1
· 6.4?	1992	71.7	21,08
6.95	of P)	71.7	12
6.97	1949	72.8	311
ρH	Conductivity	Temperature	Volume
			gpm)
-			
			<u></u>
ÐÐ		( volume )	(4.1)
x 10.89	x(VF)2	Purge	_ てひ_ 5 gai
9-11			
20.0	Volume 2"	$= 0.17   6^n = 1.$	50 12" = 5.80
7			_
U-1	Well Condit	ion o	
<u>Variand</u>		TIME	
	shorp stre		11-6-92
t 1	/ ^	<u> </u>	3814-01
	0 a k la d  U-1  20.0  9.11  x 10.89  Balas  1301  gal. / (Fire Ra  pH  6.95  6.95  6.96	Well Condition   Weather Condition	Cakland

# GETTLER-RYANDING.

# General and Environmental Contractors

# WELL SAMPLING FIELD DATA SHEET

<b>.</b>	shore Are	TY A PTI		
<b>.</b>		DAT	E	-6-54
)akland		TIM:	E	
				··
<u> </u>	Well Cond	lition	ه (د	
3	in. Hydrocart	on Thickness	<del></del>	ft
<u>। ९.५</u>	Factor ;	3" = 0.38 8		12" = 5.80
<u> </u>	11. 1			
11.19	x(VF)	$=\begin{pmatrix} \mathbf{Esti} \\ \mathbf{P} \\ \mathbf{Vo} \end{pmatrix}$	mated urge lume	3.1.0 gal
Bailer			(	_7.2)
e (		· · · · · · · · · · · · · · · · · · ·		
1242	Purging Flo	w Rate		gpm
			rging )	min.
		-		Volume
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		<del></del>		7 300
				8 000
		1	<u> </u>	<del></del>
				¬ 2
<u> Ya</u>	_ If yes, time	<u> 1251                                  </u>	Volume	T fall
1350	Weather Cond	itions	2 ~~	<del></del>
BIXE	Bottl	les Used	2×40~	<u> </u>
	3 19.9 8-71 11.19 Baila/ PH 6.68 6.63 6.47 Va 1350 Bix5	in Hydrocard    Solume   Factor   (VF)     Solume   (VF)   (VF)     Solume   (VF)   (VF)     Solume   (VF)   (VF)     Solume   (VF)   (VF)   (VF)   (VF)     Solume   (VF)   (VF)   (VF)   (VF)   (VF)     Solume   (VF)   (VF)   (VF)   (VF)   (VF)	19.9   ft   Volume   2 = 0.17   6   Factor   3 = 0.38   8   (VF)   4" = 0.66   10	3   in.   Hydrocarbon Thickness   19.9   ft   Factor   3° = 0.38   8° = 2.80   (VF)   4° = 0.66   10° = 4.10   (VF)   4° = 0.66   10° = 1.00   (VF)   4° = 0.00   (VF)   4° = 0.00   (VF)   4° = 0.00   (VF)   4° = 0.00   4

# GETTLER-RYANDING.

General and Environmental Contractors

# WELL SAMPLING FIELD DATA SHEET

Well Diameter  Total Depth  Depth to Liquid—  (# of casing volumes)  Purging Equipment  Sampling Equipment  Starting Time  (Estimated Purge Volume)  [Purging Flow Rate (Purging Flow Ra	JOB # 3814.0 1
Well ID.  Well Diameter  Total Depth  Depth to Liquid-  (# of casing volumes)  Purging Equipment  Sampling Equipment  Starting Time  (Estimated Purge Volume)  [Purging Flow Rate (Purging Flow Rate (Purging Rate))  [Purging Flow Rate (Purging Flow Rate (Purging Rate))  [Purging Flow Rate (Purging F	TIME
Well Diameter  Total Depth  Depth to Liquid—  (# of casing volumes)  Purging Equipment  Sampling Equipment  Starting Time  (Estimated Purge Volume)  [ 1270   Purging Flow Rate   Purging Flow Rate   Purgeng Rate   Purging Flow Rate	Well Condition o Æ
Well Diameter  Total Depth  Depth to Liquid—  (# of casing volumes)  Purging Equipment  Sampling Equipment  Starting Time  (Estimated Purge Volume)  [Purging Flow Rate Purger Purging Flow Rate Purger Purge	Well Condition ok
Total Depth  Depth to Liquid-  (# of casing volumes)  Purging Equipment  Sampling Equipment  Starting Time  (Estimated Purge Volume)  [Purging Flow Rate]	
Depth to Liquid— /2-0 ft.  (# of casing volumes)	Hydrocarbon Thicknessft.
Casing volumes	$\frac{1}{(VE)}$ $\frac{3^{\circ}}{5^{\circ}} = 0.38$ $\frac{8^{\circ}}{5^{\circ}} = 2.60$
Purging Equipment ))  Sampling Equipment (2.70)  Starting Time 1270  (Estimated Purge Volume) — gal. (Purging Flow Rate)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Starting Time 1270  Estimated Purge gal. Purging Flow Rate	(3.6)
(Estimated) gal. / (Purging Flow Rate)	
(Estimated) gal. / (Purging Flow Rate)	
	Purging Flow Rate gpm.  gpm. = (Anticipated) min. Time
	Conductivity Temperature Volume
1231 7.16	886 71.1 10.5
1236 7.16	913 70.7
1340 .7-42-	863 70.6 6 gul
oid well dewater? Ya If	yes, time 1276 Volume
Sampling Time 1340	
	Bottles Used ZXY0
Chain of Custody Number	
COMMENTS	
16 - Se	

ASSISTANT



# APPENDIX B LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200

Fax: (707) 526-9623

Frank Cline Gattler-Ryan Inc. 2150 W. Winton Avenue Hayward, CA 94545

Client Reference Information

Date: 11/22/1992

NET Client Acct No: 67900 NET Pacific Job No:

Received: 11/09/1992

原、图:注:有"有"的是原。

700 F 70 F 1992

UNOCAL 3220 Lakeshore Ave, Oakland/3814.01

GETTLER-I YAN 11 KL C3. L. L. CO. T. A. C. C. A.

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

JS:rct Enclosure(s)



Client No: 67900 Client Name: Gettler-Ryan Inc. NET Job No: 92.49229

Date: 11/22/1992

Page: 2

Ref: UNOCAL 3220 Lakeshore Ave, Oakland/3814.01

# Descriptor, Lab No. and Results

			U-1	<b>ʊ−2</b>		
Parameter	Method	Reporting Limit	11/06/1992 13:13 143332	11/06/1992 13:50 143333	Units	
TPH (Gas/BTXE, Liquid)			13-14-1	··· <u>·</u> ·		
METHOD 5030 (GC,FID)						
DATE ANALYZED			11-10-92	11-10-92		
DILUTION FACTOR*			1	1		
as Gasoline	5030	50	1,000	620	ug/L	
METHOD 8020 (GC, Liquid)			<del></del>	<del>for ma</del>	31 -	
DATE ANALYZED			11-10-92	11-10-92		
DILUTION FACTOR*			1	1		
Benzene	8020	0.5	80	17	ug/L	
Ethylbenzene	8020	0.5	6.7	ND	ug/L	
Toluene	8020	0.5	1.4	2.1	ug/L	
Xylenes (Total)	8020	0.5	41	37	ug/L	
SURROGATE RESULTS		·				
Bromofluorobenzene	5030		92	92	% Rec.	



Benzene

Toluene

Ethylbenzene

Xylenes (Total) SURROGATE RESULTS

Bromofluorobenzene

Client No: 67900

Client Name: Cattler-Ryan Inc.

8020

8020

8020

8020

5030

NET Job No: 92.49229

Date: 11/22/1992

Page: 3

Ref: UNOCAL 3220 Lakeshore Ave, Oakland/3814.01

# Descriptor, Lab No. and Results

U-3

ND

ND

ND

ND

87

Trip

ND

ND

ND

ND

92

ug/L

ug/L

ug/L

ug/L

% Rec.

Parameter	Method	Raporting Limit	11/06/1992 13:40 143334	143335	Units
TPH (Gas/BTXE, Liquid) METHOD 5030 (GC, FID) DATE ANALYZED DILUTION FACTOR* as Gasoline METHOD 8020 (GC, Liquid) DATE ANALYZED DILUTION FACTOR*	5030	50	 11-10-92 1 ND  11-10-92	 11-10-92 1 ND  11-10-92	ug/L

0.5

0.5

0.5

0.5



.

Client No: 67900 Client Name: Gettler-Ryan Inc. NET Job No: 92.49229

11/22/1992

Page: 4

Ref: UNOCAL 3220 Lakeshore Ave, Oakland/3814.01

## QUALITY CONTROL DATA

<u>Parameter</u>	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	50	ug/L	103	ND	96	90	6.2
Benzene	0.5	ug/L	89	ND	99	92	7.0
Toluene	0.5	ug/L	102	ND	98	92	5.6

COMMENT: Blank Results were ND on other analytes tested.



# KEY TO ABBREVIATIONS and METHOD REFERENCES

Less than; When appearing in results column indicates analyte
not detected at the value following. This datum supercedes
the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

### Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

 $\underline{SM}$ : see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

JOB LOCATION 3220 Lake share Ave  CITY Oakland PHONE NO. 722-7500  AUTHORIZED Frank Cline DATE 11.6-92 P.O. NO. 3814.01	Gettler - R	yan Inc 	// <del></del>	NVIRONMENTAL DI	vision 1	.577 Chain of Custo 
AUTHORIZED Frank Cline DATE 11.6-92 P.O. NO. 7814.01  BAMPLE NO. OF SAMPLE SAMPLE SAMPLE CONTINUE DATE 11.6-92 III-6-92 III-6-92  W-1 2 III-6-92 RECEIVED BY: W-1 1 1-9-92  RELINQUISHED BY: W-1-9-92  RELINQUISHED BY: W-1-9-92  RECEIVED BY LAB: W-1-9-92  RECEIVED BY	JOB LOCATION	3220	Lakesh	ore Ave		
AUTHORIZED Frank Cline DATE 11.6.92 P.O. NO. 3879.01  BAMPLE NO. OF SAMPLE BAMPLED ANALYSIS REQUIRED SAMPLE CONDITION  U-1 2 H.O 11-6.92/13/13 THC Clan 11785  U-2 - 1/1350  HELINOUISHED BY:  11-9-91 RECEIVED BY:  11-9-92 RECEIVED BY LAB:  11-9-92 RECEI	CITY	Oakla	~d		PHO1	COCF- CFF .ON BI
DELINQUISHED BY:    CONTAINERS   MATRIX   SAMPLED   ANALYSIS REQUIRED   LAB ID	AUTHORIZED	Frank	Cline	DATE _		
U-1 2 H20 11-6-92 74C Gar) 6786  U-2					ANALYSIS REQUIRED	SAMPLE CONDITION
U-2 / //370  #ig	U-1	2	H, 0	,		
1.3	U-Z		1	)	7	
RELINQUISHED BY:  (1-6-92  RECEIVED BY:  (1-6-92  RECEIVED BY:  (1-7-  RECEIVED BY:  (1-9-92  RECEIVED BY LAB:  (1-9-92	U-3					
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RELINQUISHED BY:  (176-92  (173-  RECEIVED BY:  (176-92  RECEIVED BY		t the second to see a second to see	The second secon	and the second s		
RECEIVED BY:    11-9-92   RECEIVED BY LAB:   11-9-92   RECEIVED BY LAB:   16:20   H/9/92 16:20  DESIGNATED LABORATORY: Security DHS #:    EMARKS:   DHS #:						
RECEIVED BY:    11-9-92   RECEIVED BY LAB:   11-9-92   RECEIVED BY LAB:   16:20   H/9/92 16:20  DESIGNATED LABORATORY: Security DHS #:    EMARKS:   DHS #:	· · · · · · ·	· · · · · · · · · · · · · · · · · · ·	-		<u> </u>	
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# QUARTERLY SUMMARY REPORT 3RD QIR - 1992 (Jul. - Sept.)

UNOCAL SERVICE STATION #5325 3220 Lakeshore Ave. Oakland, CA CITY/COUNTY ID # Oakland CCUNTY: Alameda BACKGROUND: Currently there are three (3) monitoring wells on site. The underground storage tanks were replaced in June 1990. Quarterly sampling of wells began in October 1990. RECENT QUARTER ACTIVITIES: Collected and analyzed groundwater samples. Prepared quarterly monitoring report. Pursuing offsite access for additional wells. NEXT QUARTER ACTIVITIES: Continue monitoring and quarterly sampling. Prepare quarterly monitoring report. Tentatively scheduled installation of the three proposed monitoring wells. CHARACTERIZATION/REMEDIAL STATUS: Soil contamination delineated? no Dissolved ground water delineated? no Free product delineated? n/a Amount of gw contaminant recovered this quarter? \_\_n/a (gal) Historically n/a Soil remediation in progress? <u>no - tanks replaced</u> June 1990 anticipated start? anticipated completion? Dissolved/free product remediation in progress? DO anticipated start? anticipated completion?

<u>GeoStrategies Inc.</u>

CONSULITANT/CONTRACTOR: