

**RSI**

**REMEDATION SERVICE, INT'L.**

2060 KNOLL DRIVE, SUITE 200, VENTURA, CALIFORNIA 93003  
(805) 644-5892 • FAX (805) 654-0720


**QUARTERLY MONITORING REPORT**

for

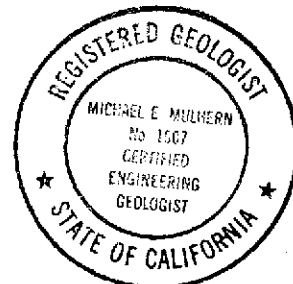
**2844 MOUNTAIN BOULEVARD  
OAKLAND, CA**

Prepared for:  
**DESERT PETROLEUM**  
P.O. Box 1601  
Oxnard, CA 93032

Prepared by:  
**RSI - REMEDIATION SERVICE, INT'L**  
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E.G. #1507



June 3, 1994

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## 1.0 INTRODUCTION

This report presents the results of groundwater monitoring and gives an update of remedial activity for the real property located at the intersection of Mountain Boulevard and Werner Court at 2844 Mountain Boulevard in Oakland, Alameda County, California 94602 (Figure 1). The property is currently occupied by a retail gasoline station operating under the ARCO trade name. Site improvements include three underground storage tanks, two pump islands and an office/garage building. The tanks contain various grades of unleaded gasoline and diesel and have individual storage capacities of 3,000, 4,000, and 10,000 gallons.

Elevated concentrations of gasoline have been identified in both the soil and shallow groundwater at this site.

Active remediation of soil contamination began at the site in June, 1991 using an RSI S.A.V.E.<sup>TM</sup> vapor extraction system. Groundwater extraction and treatment was initiated in October, 1991. Remediation was suspended between February, 1992 and February, 1994; the S.A.V.E.<sup>TM</sup> System is now in operation ten hours a day at the site.

## 2.0 GROUNDWATER MONITORING

### 2.1 Groundwater Monitoring Procedures

On May 23, 1994, four groundwater wells at the site were measured for depth to water and checked for the presence of free product (Table 1). The wells were measured to an accuracy of 0.01 feet and the measuring point for each well was the top of the sleeve of the well casing from a notched point on the north side. After measuring, the wells were purged with a Rediflo pump and sampled. The pump and hoses were decontaminated between wells using a standard 3-bucket wash method with TSP. The wells were purged until dry or three well volumes had been removed. The purged water was monitored for temperature, conductivity and pH. These measurements along with all other pertinent data were recorded on Water Sample Logs (Appendix A).

After the wells had recharged a minimum of 80 percent, they were sampled using disposable bailers. The samples were sealed, labeled and placed on blue ice for transportation to Coast to Coast Analytical, a state certified laboratory. All samples were analyzed for TPH as gasoline using modified EPA method 8015M and for benzene, toluene, ethyl-benzene and xylenes (BTEX) using EPA method 8020. The laboratory reports are contained in Appendix B.

### 2.2 Groundwater Monitoring Results

As reported on Table 1, depth to groundwater on the site ranged from 5.78 to 8.69 feet below ground surface (bgs). Because the original survey datum for each of the

wells onsite had changed due to damage from heavy equipment and/or wellhead piping modifications, **all wellheads were resurveyed this month** to determine their present relative elevation. A copy of the survey report is found in Appendix C. Groundwater gradient was calculated to be **between 0.049 and 0.057** across the site with groundwater flow in a southwesterly direction. A contour map of groundwater elevations is included as Figure 3.

Analytical results for the samples collected during this sampling episode and all previous monitoring episodes are summarized in Table 2. The official laboratory results and Chain-of-Custody documents are included in Appendix B. As reported on Table 2, hydrocarbon concentrations have increased in wells RS-1, RS-2 and RS-3 since the previous quarterly sampling in January, 1994. Hydrocarbon concentrations have decreased slightly in well RS-4.

### 3.0 REMEDIATION UPDATE

Vapor extraction and treatment began in June, 1991 with the installation of RSI's S.A.V.E.<sup>TM</sup> System. Groundwater extraction and treatment began in October, 1991. Groundwater was pumped from wells RS-1 and RS-2 and treated with the S.A.V.E.<sup>TM</sup> equipment. Due to noise complaints from neighboring residents, the system was operated only sporadically. Remedial operations were suspended on February 10, 1992, due to Desert Petroleum's filing bankruptcy. Up to that date, the system had removed a calculated 170.5 gallons of hydrocarbons by both vapor and groundwater extraction.

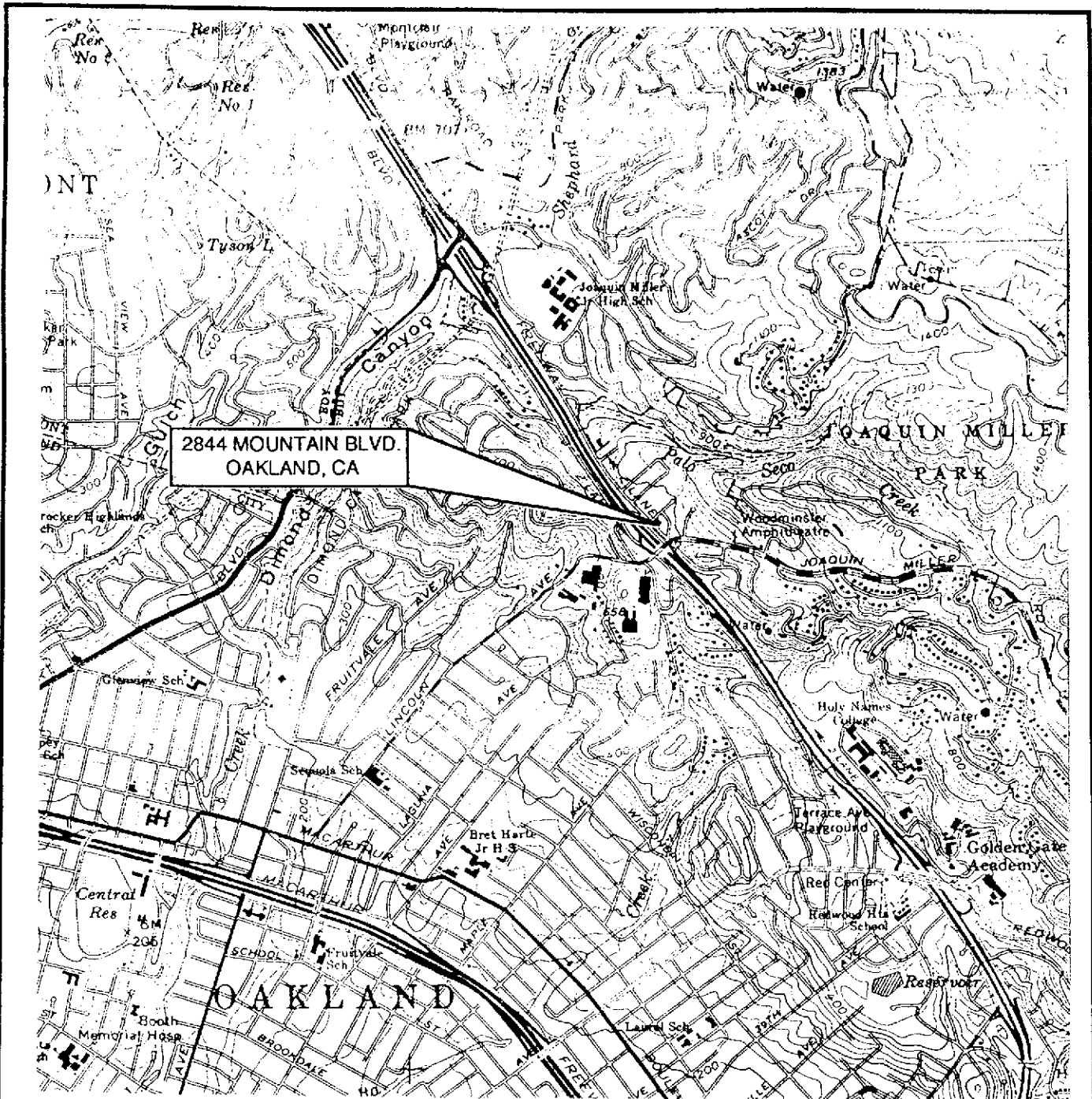
The S.A.V.E.<sup>TM</sup> System was restarted the February, 1994 for vapor extraction. Groundwater extraction will resume upon receipt of operating permits. The system operates only during daytime hours to comply with residential noise constraints and is maintained and monitored on a weekly basis. **As of April, 1994, the system has removed 2.3 gallons of hydrocarbons from subsurface soils this year.** The most recent vapor inlet sample from April, 1994 revealed a TPH concentration of 290 ppmv. An operation summary with TPH vapor concentrations for 1994 is included as Table 3. The location of the remediation equipment is included as Figure 4.

### 4.0 LIMITATIONS

The discussion, conclusion and any recommendations presented in this report are based on the professional performance of the personnel who conducted the investigations, the observations of the field personnel, the results of laboratory analyses performed by a state certified laboratory, any referenced documents and our understanding of the regulations of the State of California; also, if applicable, other local regulations.

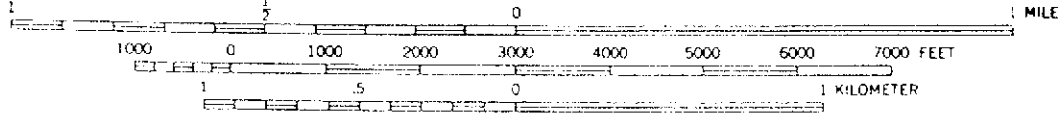
Variations in the soil and groundwater conditions may exist beyond the points explored in this investigation.

The services performed by Remediation Service, Int'l have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California. No other warranty, expressed or implied, is made.



2844 MOUNTAIN BLVD.  
OAKLAND, CA

SCALE 1:24 000



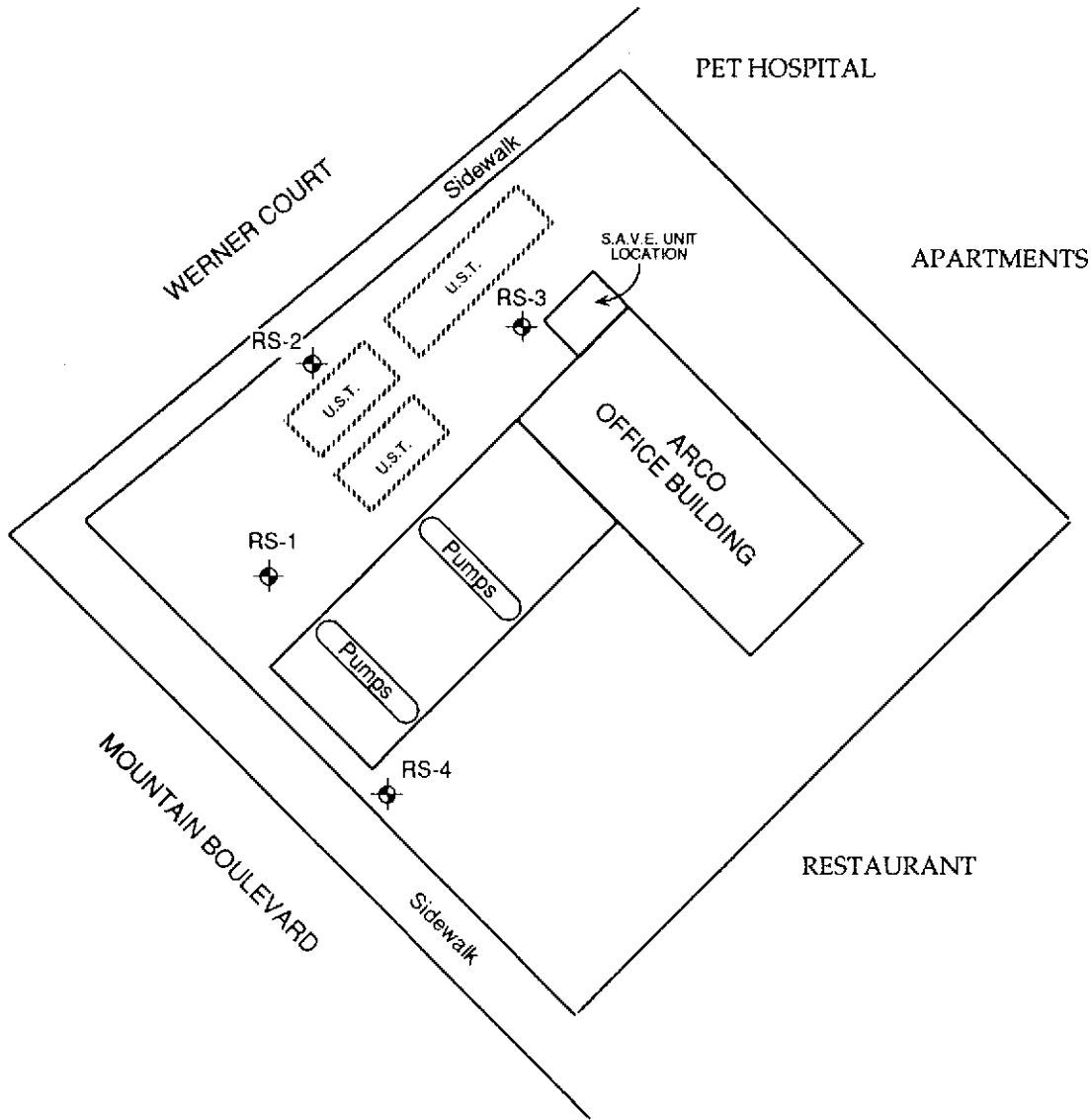
FROM U.S.G.S. 7.5' TOPOGRAPHIC  
QUADRANGLE "OAKLAND EAST,  
CALIFORNIA," 1959, PHOTOREVISED  
1980




2844 MOUNTAIN BLVD.  
OAKLAND, CA

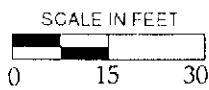
FIGURE 1: LOCATION MAP

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**LEGEND**

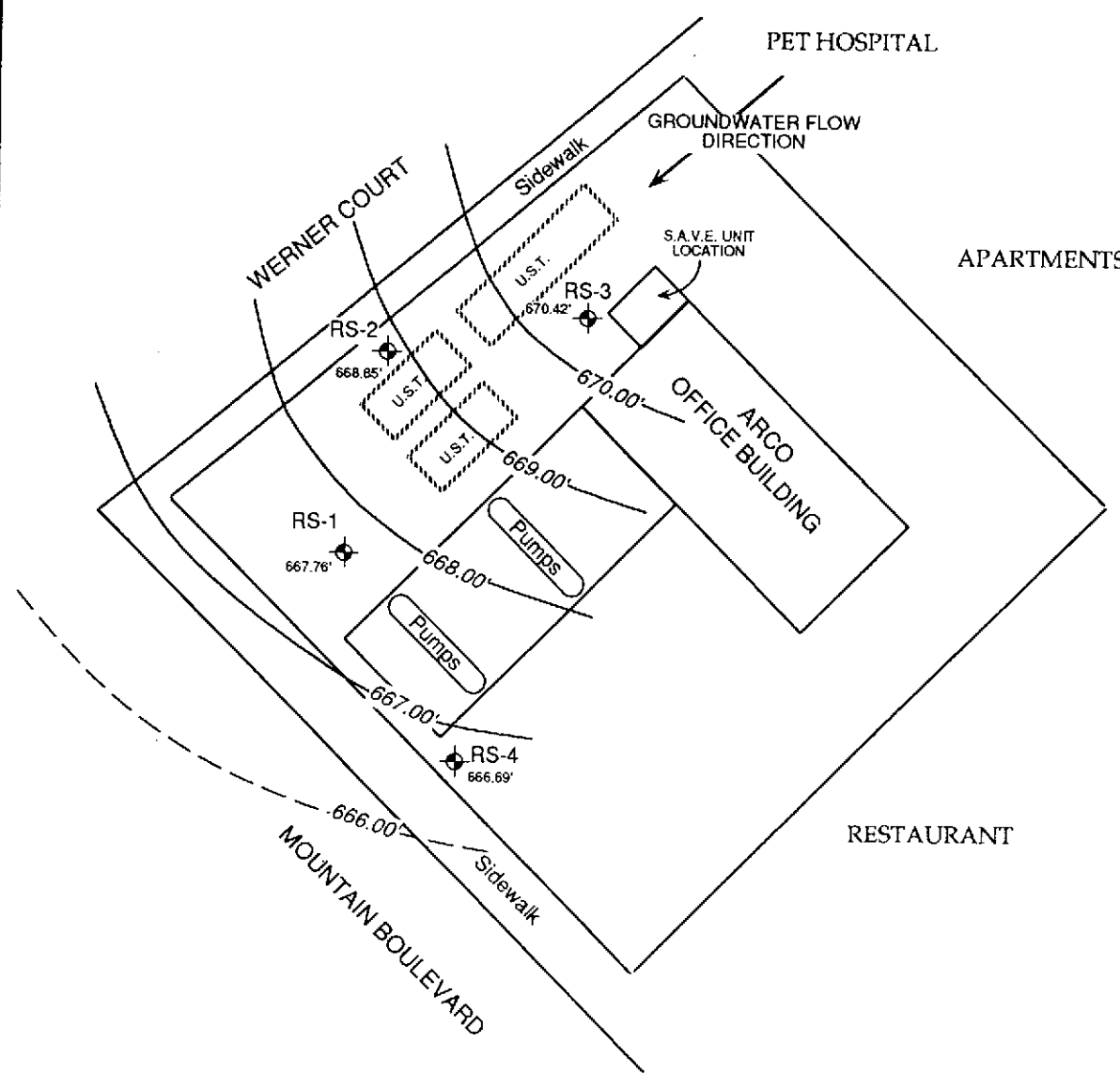
 MONITORING WELL LOCATION



2844 MOUNTAIN BLVD.  
OAKLAND, CALIFORNIA

FIGURE 2: SITE MAP

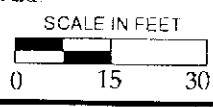
**RSI** REMEDIATION SERVICE, INT'L.



**LEGEND**

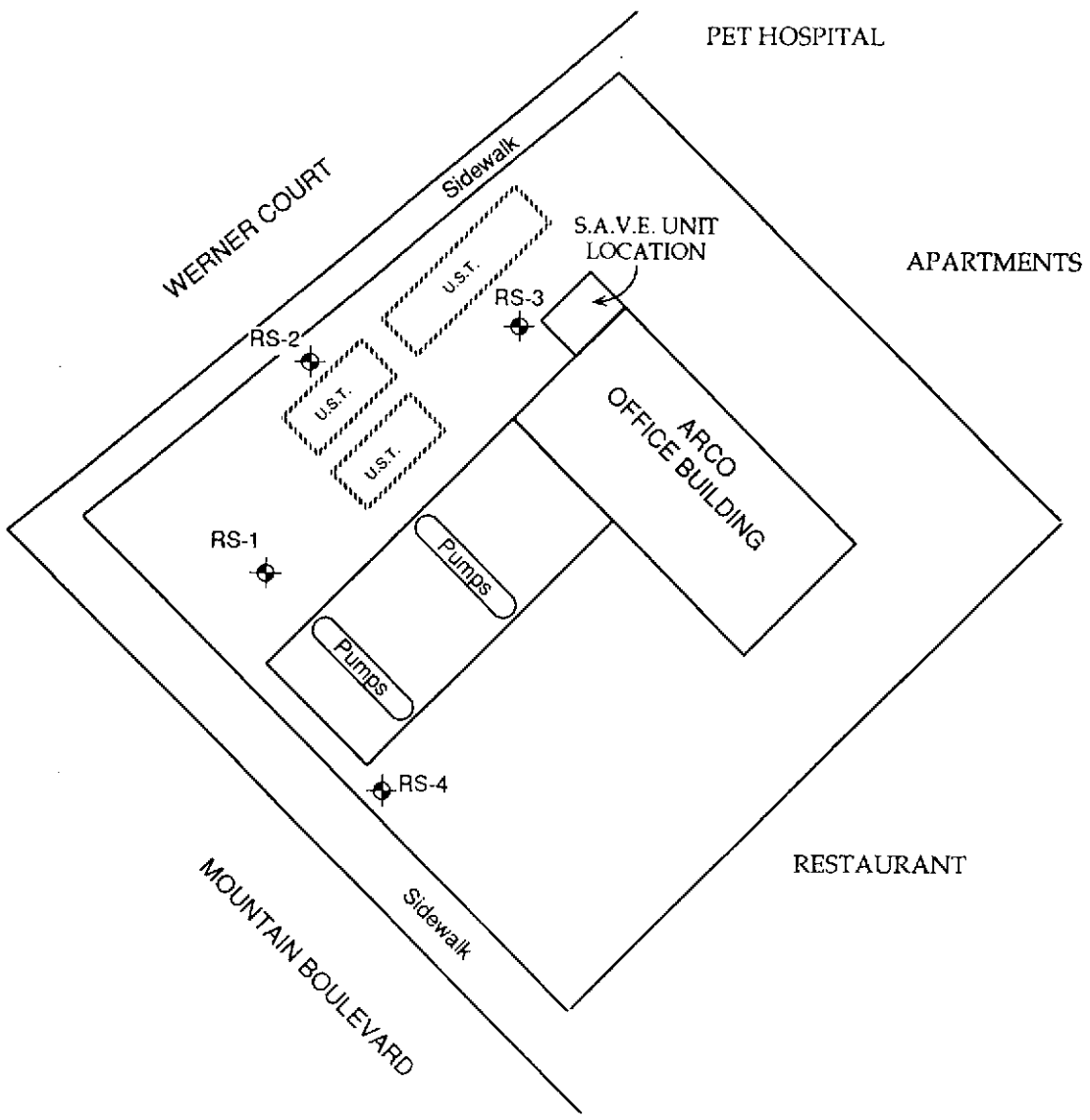
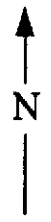
668.00 GROUND WATER CONTOUR LINE

RS-4 MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL.  
669.42'




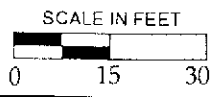
2844 MOUNTAIN BLVD.  
OAKLAND, CALIFORNIA  
FIGURE 3: GROUNDWATER ELEVATION MAP  
MAY 23, 1994  
RSI REMEDIATION SERVICE, INT'L.





**LEGEND**

 MONITORING WELL LOCATION



2844 MOUNTAIN BLVD.  
OAKLAND, CALIFORNIA

FIGURE 4: REMEDIATION EQUIPMENT  
LOCATION MAP

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**TABLE 1  
GROUNDWATER ELEVATION DATA**

**2844 MOUNTAIN BLVD.  
OAKLAND, CA**

Measurements are in feet.

| Well | Date Measured | Depth to Water* | Well Head Elevation** | Water Table Elevation** | Change in Elevation |
|------|---------------|-----------------|-----------------------|-------------------------|---------------------|
| RS-1 | 5/90          | 7.20            | 689.25                | 682.05                  |                     |
|      | 5/91          | 8.35            |                       | 680.90                  | -1.15               |
|      | 10/91         | 10.22           | 689.17                | 678.95                  | —                   |
|      | 1/92          | 8.06            |                       | 681.11                  | 2.16                |
|      | 1/93          | 5.30            |                       | 683.87                  | 2.76                |
|      | 8/93          | 8.56            |                       | 680.61                  | -3.26               |
|      | 11/93         | 8.44            |                       | 680.73                  | 0.12                |
|      | 1/94          | 6.88            |                       | 682.29                  | 1.56                |
|      | 5/94          | 7.87            | 675.63 ✓              | 667.76                  | —                   |
| RS-2 | 5/90          | 7.06            | 689.00                | 681.94                  |                     |
|      | 5/91          | 7.14            |                       | 681.86                  | -0.08               |
|      | 10/91         | 8.84            | 688.89                | 680.05                  | —                   |
|      | 1/92          | 7.34            |                       | 681.55                  | 1.50                |
|      | 1/93          | 4.10            |                       | 684.79                  | 3.24                |
|      | 8/93          | 7.32            |                       | 681.57                  | -3.22               |
|      | 11/93         | 7.34            |                       | 681.55                  | -0.02               |
|      | 1/94          | 5.52            |                       | 683.37                  | 1.82                |
|      | 5/94          | 6.40            | 675.25 ✓              | 668.85                  | —                   |
| RS-3 | 5/90          | 6.00            | 690.00                | 684.00                  |                     |
|      | 5/91          | 6.76            |                       | 683.24                  | -0.76               |
|      | 10/91         | 8.98            |                       | 681.02                  | -2.22               |
|      | 1/92          | 6.81            |                       | 683.19                  | 2.17                |
|      | 1/93          | 4.05            |                       | 685.95                  | 2.76                |
|      | 8/93          | 7.19            |                       | 682.81                  | -3.14               |
|      | 11/93         | 7.12            |                       | 682.88                  | 0.07                |
|      | 1/94          | 5.42            |                       | 684.58                  | 1.70                |
|      | 5/94          | 5.78            | 676.20 ✓              | 670.42                  | —                   |
| RS-4 | 5/90          | 8.34            | 689.06                | 680.72                  |                     |
|      | 5/91          | 9.50            |                       | 679.56                  | -1.16               |
|      | 10/91         | 10.82           | 689.10                | 678.28                  | —                   |
|      | 1/92          | 9.31            |                       | 679.79                  | 1.51                |
|      | 1/93          | 6.89            |                       | 682.21                  | 2.42                |
|      | 8/93          | 9.68            |                       | 679.42                  | -2.79               |
|      | 11/93         | 9.83            |                       | 679.27                  | -0.15               |
|      | 1/94          | 8.17            |                       | 680.93                  | 1.66                |
|      | 5/94          | 8.69            | 675.38 ✓              | 666.69                  | —                   |

\*Depth of water measured from top of well cover.

\*\*Elevations are in feet above mean sea level.

Well Head Elevations surveyed 5/94 to City of Oakland Bench Mark #2804

Bench Mark elevation = 676.08', based on USGS Sea Level Datum 1929.

TABLE 2

## SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

2844 MOUNTAIN BLVD.  
OAKLAND, CA

Results are in µg/L (parts per billion).

| WELL # | DATE<br>SAMPLED | TPH            | BENZENE      | TOLUENE | ETHYL-<br>BENZENE | TOTAL<br>XYLENES |
|--------|-----------------|----------------|--------------|---------|-------------------|------------------|
| RS-1   | 5/90            | 2,700          | 370          | 420     | 40                | 320              |
|        | 5/91            | 1,300          | 580          | 130     | 62                | 240              |
|        | 10/91           | 1,100          | 140          | 100     | 45                | 210              |
|        | 1/92            | 1,700          | 9.9          | 31      | 9.7               | 170              |
|        | 1/93            | 3,700          | 650          | 9.2     | 51                | 170              |
|        | 8/93            | 900            | 14           | 0.6     | 2.1               | 7.8              |
|        | 11/93           | 1,400          | 9.6          | ND      | 0.9               | 4.9              |
|        | 1/94            | 4,200          | 95           | 3.1     | 58                | 130              |
|        | 5/94            | <b>7,500</b>   | <b>270</b>   | 11      | 37                | 96               |
| RS-2   | 5/90            | 23,000         | 7,200        | 4,800   | 300               | 3,300            |
|        | 5/91            | 26,000         | 14,000       | 1,800   | 750               | 2,900            |
|        | 10/91           | 13,000         | 4,300        | 910     | 300               | 2,300            |
|        | 1/92            | 8,300          | 1,800        | 920     | 140               | 1,700            |
|        | 1/93            | 41,000         | 7,000        | 210     | 1,200             | 4,200            |
|        | 8/93            | 19,000         | 5,300        | 62      | 810               | 1,600            |
|        | 11/93           | 9,300          | 2,400        | 3.9     | 46                | 800              |
|        | 1/94            | 30,000         | 4,900        | ND      | 880               | 2,600            |
|        | 5/94            | <b>120,000</b> | <b>3,300</b> | 330     | ND                | 2,200            |
| RS-3   | 5/90            | 330            | 2            | 1       | 1                 | 150              |
|        | 5/91            | ND             | 0.4          | ND      | 0.8               | 8.2              |
|        | 10/91           | ND             | ND           | ND      | ND                | ND               |
|        | 1/92            | ND             | 2.2          | 7.2     | 0.6               | 3.6              |
|        | 1/93            | ND             | ND           | ND      | ND                | ND               |
|        | 8/93            | ND             | 30           | 6       | 2.4               | 5                |
|        | 11/93           | ND             | 4.8          | 0.4     | 0.6               | 1.9              |
|        | 1/94            | 330            | 25           | 3.2     | 3.9               | 12               |
|        | 5/94            | <b>670</b>     | <b>34</b>    | 4       | 28                | 70               |
| RS-4   | 5/90            | 440            | 9            | 11      | 9                 | 49               |
|        | 5/91            | ND             | 8            | 4       | 3                 | 5                |
|        | 10/91           | 830            | 280          | 120     | 24                | 170              |
|        | 1/92            | 620            | 34           | 8.3     | 2.1               | 21               |
|        | 1/93            | 150            | 32           | 1.7     | 5.8               | 13               |
|        | 8/93            | ND             | 0.9          | 0.7     | ND                | 0.3              |
|        | 11/93           | ND             | ND           | ND      | ND                | ND               |
|        | 1/94            | ND             | 1.7          | ND      | 0.81              | 2.2              |
|        | 5/94            | ND             | ND           | ND      | ND                | 0.7              |

TPH = Total petroleum hydrocarbons (gasoline)

ND = Not detected above minimum detection levels.

# WATER SAMPLE LOG

DATE: 5/23/94

LOCATION: 2844 Mountain Blvd., Oakland, CA

WELL NUMBER: RS-1

WEATHER CONDITIONS: Sunny, warm

FIELD OBSERVATIONS: Well box in good condition. Remediation system intact.  
Slow recharge.

TOTAL DEPTH OF WELL: 31.50 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 28.9 gallons

DEPTH TO WATER: 7.87 feet PURGING METHOD: Rediflo pump

DEPTHS MEASURED FROM: Top of well casing, north side.

## WELL PURGING DATA

| Time  | Discharge (gallons) | pH   | Temp in F. | Specific Conductance ( $\mu$ mhos/cm) | Comments              |
|-------|---------------------|------|------------|---------------------------------------|-----------------------|
| 9:58  | 2.9                 | 6.28 | 72.4       | 0.69                                  | Grey, HC order        |
| 10:00 | 8.6                 | 5.70 | 71.6       | 0.67                                  | Lt. brown, slt. odor. |
| 10:02 | 14.3                | 5.56 | 71.8       | 0.67                                  | Lt. brown, slt. odor. |
| 10:04 | 20.1                | 5.66 | 71.9       | 0.67                                  | Lt. brown, slt. odor. |
| 10:06 | 25.8                | 5.62 | 71.7       | 0.67                                  | Lt. brown, slt. odor. |
| 10:08 | 37.3                | 5.59 | 71.4       | 0.67                                  | Lt. brown, slt. odor. |
| 11:30 | 39.2                | 5.57 | 70.9       | 0.67                                  | Lt. brown, slt. odor. |
| 11:33 | 44.9                | 5.58 | 71.1       | 0.67                                  | Lt. brown, slt. odor. |
| 11:36 | 50.5                | 5.59 | 71.0       | 0.67                                  | Lt. brown, slt. odor. |

TOTAL DISCHARGE: 50.5 gallons WELL VOLUMES REMOVED: 1.7

TIME SAMPLE COLLECTED: 2:12 PM

DEPTH TO WATER AT TIME OF SAMPLE: 9.60 feet PERCENT RECHARGE: 93

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Light brown, slight odor present.

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's

SAMPLE TRANSPORTED TO: Coast to Coast Analytical

SAMPLED BY: JJ

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# WATER SAMPLE LOG

DATE: 5/23/94

LOCATION: 2844 Mountain Blvd., Oakland, CA

WELL NUMBER: RS-2

WEATHER CONDITIONS: Sunny, warm

FIELD OBSERVATIONS: Well box in good condition. Remediation system intact.  
Very slow recharge.

TOTAL DEPTH OF WELL: 24.50 feet CASING DIAMETER: 4 inches  
DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 22.2 gallons  
DEPTH TO WATER: 6.40 feet PURGING METHOD: Rediflo pump  
DEPTHS MEASURED FROM: Top of well casing, north side.

## WELL PURGING DATA

| Time  | Discharge (gallons) | pH   | Temp in F. | Specific Conductance ( $\mu$ mhos/cm) | Comments              |
|-------|---------------------|------|------------|---------------------------------------|-----------------------|
| 8:54  | 4.3                 | 4.97 | 72.2       | 0.87                                  | Clear, slt. odor      |
| 8:56  | 12.8                | 5.13 | 71.8       | 0.86                                  | Lt. brown, slt. odor. |
| 8:59  | 25.5                | 5.07 | 71.4       | 0.86                                  | Lt. brown, slt. odor. |
| 9:01  | 34.1                | 5.15 | 71.3       | 0.85                                  | Lt. brown, slt. odor. |
| 10:53 | 36.9                | 5.17 | 71.4       | 0.85                                  | Lt. brown, slt. odor. |
| 10:54 | 39.8                | 5.14 | 71.1       | 0.84                                  | Lt. brown, slt. odor. |
| 10:55 | 42.7                | 5.18 | 70.8       | 0.85                                  | Lt. brown, slt. odor. |
| 10:56 | 45.5                | 5.19 | 71.0       | 0.84                                  | Lt. brown, slt. odor. |
| 10:58 | 51.2                | 5.19 | 70.9       | 0.84                                  | Lt. brown, slt. odor. |

TOTAL DISCHARGE: 51.2 gallons WELL VOLUMES REMOVED: 2.3

TIME SAMPLE COLLECTED: 2:03 PM

DEPTH TO WATER AT TIME OF SAMPLE 15.36 feet PERCENT RECHARGE: 50

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE Clear, slight odor present.

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's

SAMPLE TRANSPORTED TO: Coast to Coast Analytical

SAMPLED BY: JJ

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# WATER SAMPLE LOG

DATE: 5/23/94

LOCATION: 2844 Mountain Blvd., Oakland, CA

WELL NUMBER: RS-3

WEATHER CONDITIONS: Sunny, warm

FIELD OBSERVATIONS: Well box in good condition.  
Slow recharge.

TOTAL DEPTH OF WELL: 24.40 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 22.8 gallons

DEPTH TO WATER: 5.78 feet PURGING METHOD: Rediflo pump

DEPTHS MEASURED FROM: Top of well casing, north side.

## WELL PURGING DATA

| Time  | Discharge (gallons) | pH   | Temp in F. | Specific Conductance (µmhos/cm) | Comments                  |
|-------|---------------------|------|------------|---------------------------------|---------------------------|
| 8:23  |                     | 5.05 | 71.0       | 0.77                            | Clear, slt. product order |
| 8:27  |                     | 4.48 | 70.8       | 0.79                            | Clear, slt. product order |
| 8:31  |                     | 4.61 | 70.2       | 0.74                            | Clear, slt. product order |
| 8:34  |                     | 4.52 | 70.4       | 0.80                            | Clear, slt. product order |
| 8:35  | 41.3                | 5.73 | 69.9       | 0.85                            | Clear, slt. product order |
| 10:30 |                     | 5.64 | 70.1       | 0.81                            | Clear, no product order   |
| 10:32 |                     | 5.64 | 70.2       | 0.79                            | Clear, no product order   |
| 10:35 |                     |      | 70.0       | 0.77                            | Clear, no product order   |
| 10:38 | 64.3                |      | 69.8       | 0.77                            | Clear, no product order   |

TOTAL DISCHARGE: 64.3 gallons WELL VOLUMES REMOVED: 2.8

TIME SAMPLE COLLECTED: 1:55 PM

DEPTH TO WATER AT TIME OF SAMPLE: 6.10 feet PERCENT RECHARGE: 98

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear, no product odor present.

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's

SAMPLE TRANSPORTED TO: Coast to Coast Analytical

SAMPLED BY: JJ



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# WATER SAMPLE LOG

DATE: 5/23/94

LOCATION: 2844 Mountain Blvd., Oakland, CA

WELL NUMBER: RS-4

WEATHER CONDITIONS: Sunny, warm

FIELD OBSERVATIONS: Well box in good condition.

Slow well recharge.

TOTAL DEPTH OF WELL: 25.96 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 21.1 gallons

DEPTH TO WATER: 8.69 feet PURGING METHOD: Rediflo pump

DEPTHS MEASURED FROM: Top of well casing, north side.

## WELL PURGING DATA

| Time  | Discharge (gallons) | pH   | Temp in F. | Specific Conductance (µmhos/cm) | Comments                               |
|-------|---------------------|------|------------|---------------------------------|--|
| 9:28  | 1.5                 | 5.56 | 73.4       | 0.72                            | Clear, <del>strong product order</del> |
| 9:30  | 7.3                 | 5.66 | 72.6       | 0.69                            | Clear, <del>strong product order</del> |
| 9:31  | 8.7                 | 5.58 | 72.5       | 0.68                            | Clear, <del>strong product order</del> |
| 9:47  | 32                  | 5.60 | 72.1       | 0.68                            | Clear, slt. product order              |
| 11:13 | 35                  | 5.62 | 70.9       | 0.68                            | Clear, slt. product order              |
| 11:15 | 41.2                | 5.64 | 71.6       | 0.69                            | Clear, slt. product order              |
| 11:16 | 44.2                | 5.66 | 71.5       | 0.68                            | Clear, slt. product order              |
| 11:17 | 47.3                | 5.65 | 71.7       | 0.68                            | Clear, slt. product order              |
| 11:19 | 53.4                | 5.64 | 71.6       | 0.68                            | Clear, slt. product order              |

TOTAL DISCHARGE: 53.4 gallons WELL VOLUMES REMOVED: 2.5

TIME SAMPLE COLLECTED: 2:25 PM

DEPTH TO WATER AT TIME OF SAMPLE 13.20 feet PERCENT RECHARGE: 74

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPL Clear, slight product odor present.

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's

SAMPLE TRANSPORTED TO: Coast to Coast Analytical

SAMPLED BY: JJ

**RCI**  
REMEDIAL SERVICE, INT'L.

2060 KNOLL DR., SUITE 200, VENTURA, CA 93003  
(805) 644-5892 • FAX (805) 654-0720

APPENDIX B  
LABORATORY REPORTS  
AND  
CHAIN OF CUSTODY





# COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE  
IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

CLIENT: Rick Pilat  
R.S.I.  
2060 Knoll Drive, Suite 200  
Ventura, CA 93003

Lab Number : JK-1652-1  
Project : DP796  
Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

### REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX      | SAMPLED BY   | SAMPLED        | RECEIVED |
|---|-------------|--------------|----------------|----------|
| RS-1                                    | Groundwater | John Jensen  | 05/23/94       | 05/23/94 |
| CONSTITUENT                             | (CAS RN)    | *PQL<br>µg/L | RESULT<br>µg/L | NOTE     |
| BTEX + TPH (Gasoline)                   |             |              |                | 1,2      |
| Benzene                                 |             | 10.          | 270. ✓         |          |
| Toluene                                 |             | 10.          | 11.            |          |
| Ethylbenzene                            |             | 10.          | 37.            |          |
| Xylenes                                 |             | 10.          | 96.            |          |
| Total Petroleum Hydrocarbons (Gasoline) |             | 1000.        | 7500. ✓        |          |
| Percent Surrogate Recovery              |             |              | 105.           |          |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) Elevated PQLs due to sample dilution.

05/31/94  
GC#2\527B312  
DT/mcca3(dw)/jst  
W-BTX-052794

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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Air, Water & Hazardous Waste Sampling, Analysis & Consultation • Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories



# COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE  
IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

CLIENT: Rick Pilat  
R.S.I.  
2060 Knoll Drive, Suite 200  
Ventura, CA 93003

Lab Number : JK-1652-2  
Project : DP796  
Analyzed : 05/31/94  
Analyzed by: CB  
Method : EPA 8020/8015M

## REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX      | SAMPLED BY   | SAMPLED        | RECEIVED |
|---|-------------|--------------|----------------|----------|
| RS-2                                    | Groundwater | John Jensen  | 05/23/94       | 05/23/94 |
| CONSTITUENT                             | (CAS RN)    | *PQL<br>μg/L | RESULT<br>μg/L | NOTE     |
| BTEX + TPH (Gasoline)                   |             |              |                | 1,2      |
| Benzene                                 |             | 300.         | 3300.          |          |
| Toluene                                 |             | 300.         | 330.           |          |
| Ethylbenzene                            |             | 300.         | ND             |          |
| Xylenes                                 |             | 300.         | 2200.          |          |
| Total Petroleum Hydrocarbons (Gasoline) |             | 30000.       | 120000.        |          |
| Percent Surrogate Recovery              |             |              | 104.           |          |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) Elevated PQLs due to sample dilution.

05/31/94  
GC#2\531B306  
DT/mcca3(dw)/jst  
W-BTX-053194

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

CLIENT: Rick Pilat  
R.S.I.  
2060 Knoll Drive, Suite 200  
Ventura, CA 93003

Lab Number : JK-1652-3  
Project : DP796  
Analyzed : 05/26/94  
Analyzed by: CB  
Method : EPA 8020/8015M

## REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX      | SAMPLED BY   | SAMPLED        | RECEIVED |
|---|-------------|--------------|----------------|----------|
| RS-3                                    | Groundwater | John Jensen  | 05/23/94       | 05/23/94 |
| CONSTITUENT                             | (CAS RN)    | *PQL<br>μg/L | RESULT<br>μg/L | NOTE     |
| BTEX + TPH (Gasoline)                   |             |              |                | 1        |
| Benzene                                 |             | 0.5          | 34. ✓          |          |
| Toluene                                 |             | 0.5          | 4.0            |          |
| Ethylbenzene                            |             | 0.5          | 28.            |          |
| Xylenes                                 |             | 0.5          | 70.            |          |
| Total Petroleum Hydrocarbons (Gasoline) |             | 50.          | 670. ✓         |          |
| Percent Surrogate Recovery              |             |              | 102.           |          |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\526B319  
DT/mcca3(dw)/jst  
W-BTX-052694

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

CLIENT: Rick Pilat  
R.S.I.  
2060 Knoll Drive, Suite 200  
Ventura, CA 93003

Lab Number : JK-1652-4  
Project : DP796  
Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

## REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX      | SAMPLED BY   | SAMPLED        | RECEIVED |
|---|-------------|--------------|----------------|----------|
| RS-4                                    | Groundwater | John Jensen  | 05/23/94       | 05/23/94 |
| CONSTITUENT                             | (CAS RN)    | *PQL<br>µg/L | RESULT<br>µg/L | NOTE     |
| BTEX + TPH (Gasoline)                   |             |              |                | 1        |
| Benzene                                 |             | 0.5          | ND ✓           |          |
| Toluene                                 |             | 0.5          | ND             |          |
| Ethylbenzene                            |             | 0.5          | ND             |          |
| Xylenes                                 |             | 0.5          | 0.7 ✓          |          |
| Total Petroleum Hydrocarbons (Gasoline) |             | 50.          | ND ✓           |          |
| Percent Surrogate Recovery              |             |              | 106.           |          |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\527B311  
DT/eta3(dw)/jst  
W-BTX-052694

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

QC Batch ID: W-BTX-052694

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

METHOD BLANK  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX   | SAMPLED BY   | SAMPLED DATE RECEIVED |      |  |
|---|----------|--------------|-----------------------|------|--|
| METHOD BLANK                            | Aqueous  |              |                       |      |  |
| CONSTITUENT                             | (CAS RN) | *PQL<br>μg/L | RESULT<br>μg/L        | NOTE |  |
| BTEX + TPH (Gasoline)                   |          |              |                       | 1    |  |
| Benzene                                 |          | 0.5          | ND                    |      |  |
| Toluene                                 |          | 0.5          | ND                    |      |  |
| Ethylbenzene                            |          | 0.5          | ND                    |      |  |
| Xylenes                                 |          | 0.5          | ND                    |      |  |
| Total Petroleum Hydrocarbons (Gasoline) |          | 50.          | ND                    |      |  |
| Percent Surrogate Recovery              |          |              | 101.                  |      |  |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\526B305A  
DT/eta3(dw)/jst  
JK1652-4

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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# COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE  
IN ANALYSIS

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2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

QC Batch ID: W-BTX-052694

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

QC MATRIX SPIKE  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX          | SAMPLED BY   | SAMPLED DATE RECEIVED  |      |      |
|---|-----------------|--------------|------------------------|------|------|
| MATRIX SPIKE                            | Aqueous         |              |                        |      |      |
| CONSTITUENT                             | ORIGINAL RESULT | SPIKE AMOUNT | RESULT $\mu\text{g/L}$ | %REC | NOTE |
| BTEX + TPH (Gasoline)                   |                 |              |                        |      | 1    |
| Benzene                                 | ND              | 10.          | 12.                    | 120. |      |
| Toluene                                 | ND              | 10.          | 10.                    | 100. |      |
| Ethylbenzene                            | ND              | 10.          | 9.8                    | 98.  |      |
| Xylenes                                 | 0.7             | 30.          | 32.                    | 104. |      |
| Total Petroleum Hydrocarbons (Gasoline) | ND              | 250.         | 210.                   | 84.  |      |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\526B322  
DT/eta3(dw)/jst/mcc  
JK1652-4

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

*M. Torres*  
Dudley Torres  
Organics Manager

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IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

QC Batch ID: W-BTX-052694

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

QC MATRIX SPIKE  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX          | SAMPLED BY   |                        | SAMPLED DATE RECEIVED |       |      |
|---|-----------------|--------------|------------------------|-----------------------|-------|------|
| MATRIX SPIKE DUPLICATE                  | Aqueous         |              |                        |                       |       |      |
| CONSTITUENT                             | ORIGINAL RESULT | SPIKE AMOUNT | RESULT $\mu\text{g/L}$ | %REC                  | %DIFF | NOTE |
| BTEX + TPH (Gasoline)                   |                 |              |                        |                       |       | 1    |
| Benzene                                 | ND              | 10.          | 12.                    | 120.                  | 0.    |      |
| Toluene                                 | ND              | 10.          | 10.                    | 100.                  | 0.    |      |
| Ethylbenzene                            | ND              | 10.          | 9.9                    | 99.                   | 1.    |      |
| Xylenes                                 | 0.7             | 30.          | 32.                    | 104.                  | 0.    |      |
| Total Petroleum Hydrocarbons (Gasoline) | ND              | 250.         | 230.                   | 92.                   | 9.1   |      |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\526B323  
DT/eta3(dw)/jst  
JK1652-4

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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# COAST-TO-COAST ANALYTICAL SERVICES, INC.

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

QC Batch ID: W-BTX-052694

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

QC SPIKE  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX       | SAMPLED BY      |                | SAMPLED DATE RECEIVED |      |
|---|--------------|-----------------|----------------|-----------------------|------|
| QC SPIKE                                | Aqueous      |                 |                |                       |      |
| CONSTITUENT                             | *PQL<br>µg/L | SPIKE<br>AMOUNT | RESULT<br>µg/L | %REC                  | NOTE |
| BTEX + TPH (Gasoline)                   |              |                 |                |                       | 1    |
| Benzene                                 | 0.5          | 10.             | 12.            | 120.                  |      |
| Toluene                                 | 0.5          | 10.             | 11.            | 110.                  |      |
| Ethylbenzene                            | 0.5          | 10.             | 10.            | 100.                  |      |
| Xylenes                                 | 0.5          | 30.             | 33.            | 110.                  |      |
| Total Petroleum Hydrocarbons (Gasoline) | 50.          | 250.            | 270.           | 108.                  |      |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)  
(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\526B306  
DT/eta3(dw)/jst/mcc  
JK1652-4

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

*Dudley Torres*  
Dudley Torres  
Organics Manager

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EXCELLENCE  
IN ANALYSIS

NorCal Division (San Jose Laboratory)  
2059 Junction Ave.

San Jose, CA 95131  
(408) 955-9077

QC Batch ID: W-BTX-052694

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 05/27/94  
Analyzed by: CB  
Method : EPA 8020/8015M

## QC SPIKE REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION                      | MATRIX       | SAMPLED BY      | SAMPLED DATE RECEIVED |      |       |      |
|---|--------------|-----------------|-----------------------|------|-------|------|
| QC SPIKE DUPLICATE                      | Aqueous      |                 |                       |      |       |      |
| CONSTITUENT                             | *PQL<br>µg/L | SPIKE<br>AMOUNT | RESULT<br>µg/L        | %REC | %DIFF | NOTE |
| BTEX + TPH (Gasoline)                   |              |                 |                       |      |       | 1    |
| Benzene                                 | 0.5          | 10.             | 12.                   | 120. | 0.    |      |
| Toluene                                 | 0.5          | 10.             | 11.                   | 110. | 0.    |      |
| Ethylbenzene                            | 0.5          | 10.             | 10.                   | 100. | 0.    |      |
| Xylenes                                 | 0.5          | 30.             | 32.                   | 107. | 3.1   |      |
| Total Petroleum Hydrocarbons (Gasoline) | 50.          | 250.            | 250.                  | 100. | 7.7   |      |

San Jose Lab Certifications: CAELAP #1204

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

05/31/94  
GC#2\526B307  
DT/eta3(dw)/jst  
JK1652-4

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres  
Organics Manager

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 2059 Junction Ave. • San Jose, CA 95131 • (408) 955-9077 FAX (408) 955-9078  
 141 Suburban Road • San Luis Obispo, CA 93401 • (805) 547-3888 FAX (805) 543-2685  
 2400 Cumberland Dr. • Valparaiso, IN 46383 • (219) 464-2389 FAX (219) 462-2953  
 340 County Road No. 5 • Westbrook, ME 04092 • (207) 874-2400 FAX (207) 775-4029

# Chain of Custody

• PLEASE PRINT IN PEN

|   |                               |                               |                             |
|---|-------------------------------|-------------------------------|-----------------------------|
| Client <u>RSI</u>                           | Contact                       | Phone # <u>(805) 644-5892</u> | FAX # <u>(805) 654-0720</u> |
| Address <u>2600 Knoll Dr Ste 200</u>        | City <u>Ventura</u>           | State <u>CA</u>               | Zip <u>93003</u>            |
| Project Name/Number <u>DP 796</u>           | Project MGR <u>RICK PILAT</u> |                               |                             |
| Bill (if different than above)              | Address                       |                               |                             |
| Sampler (Print and sign) <u>John Jensen</u> | Due Date                      | Circle for RUSH*              | Copies To: Auth. Init.      |

| Sample Description | Date/Time Coll'd | *Matrix | # of Containers | Pres. | Filt. y/n | * Subject to Availability Analysis | Remarks | Lab ID # |
|--------------------|------------------|---------|-----------------|-------|-----------|------------------------------------|---------|----------|
| RS-1               | 5/23/04          | GW      | 4               | HCL   | N         | 8015g / 8020 BTEX                  |         | AK1062 1 |
| RS-2               | /                | /       | /               | /     | /         | /                                  |         | 2        |
| RS-3               | /                | /       | /               | /     | /         | /                                  |         | 3        |
| RS-4               | /                | /       | /               | /     | /         | /                                  |         | 4        |
| /                  | /                | /       | /               | /     | /         | /                                  |         |          |
| /                  | /                | /       | /               | /     | /         | /                                  |         |          |
| /                  | /                | /       | /               | /     | /         | /                                  |         |          |
| /                  | /                | /       | /               | /     | /         | /                                  |         |          |

| Relinquished By    | Date/Time           | Received By        | Relinquished By | Date/Time | Received By |
|--------------------|---------------------|--------------------|-----------------|-----------|-------------|
| <u>John Jensen</u> | <u>5/23/04 2:35</u> | <u>[Signature]</u> |                 |           |             |
| /                  | /                   | /                  | /               | /         | /           |

FOR LAB USE ONLY

|   |            |                                  |                                |   |
|---|------------|----------------------------------|--------------------------------|---|
| Shipping Method <u>World Courier</u>                | Shipping # | Received By <u>Kevin Abraham</u> | Date/Time <u>05/23/04 1640</u> | Condition (See Remarks)   |
| REMARKS <u>was found in guard bottles &amp; lab</u> |            |                                  |                                | <input checked="" type="checkbox"/> Cold<br><input type="checkbox"/> Sealed<br><input checked="" type="checkbox"/> Intact |

- \* Matrix:
- DW - Drinking Water
  - WW - Wastewater
  - GW - Groundwater
  - SW - Surface Water
  - IM - Impinger
  - FI - Filter
  - FP - Free Product
  - A/G - Air/Gas
  - SL - Sludge/Soil/Solid
  - OT - Other

APPENDIX C

MONITORING WELL  
ELEVATION SURVEY

# Brian Kangas Foulk

May 25, 1994  
BKF No. 945037

Consulting Engineers  
1990 N. California Blvd.  
Suite 250  
Walnut Creek, CA 94596  
510/937-6262  
FAX 510/937-6260

Mr. Kevin Fritz  
Remediation Services Int'l.  
2060 Knoll Dr.  
Suite 200  
Ventura, Ca. 93003

Subject: Monitor Well Surveys- Oakland, San Leandro, San Jose.

Dear Mr. Fritz,

The wells for the sites above were surveyed for elevation by field methods using local bench marks tied to N.G.V.D. 1927 datum. The findings are as follows:

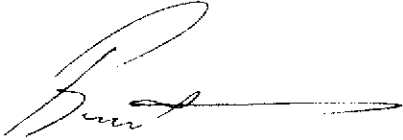
| <u>Site</u>                     | <u>Well No.</u>          | <u>Elevation, North rim</u> | <u>Elevation, Top casing</u> |
|---------------------------------|--------------------------|-----------------------------|------------------------------|
| 15201 Washington<br>San Leandro | GX135A                   | 20.36'                      | 19.72'                       |
|                                 | GX135B                   | 19.51'                      | 19.04'                       |
|                                 | GX135C                   | 19.26'                      | 18.81'                       |
| 4035 Park Ave.<br>Oakland       | RS1                      | 228.84'                     | 228.15'                      |
|                                 | RS2                      | 227.82'                     | 227.19'                      |
|                                 | RS4                      | 196.37'                     | 195.92'                      |
|                                 | RS5                      | 228.18'                     | 227.65'                      |
|                                 | RS6                      | 227.93'                     | 227.22'                      |
|                                 | 2844 Mountain<br>Oakland | RS1                         | 675.96'                      |
| RS2                             |                          | 675.78'                     | 675.25' ✓                    |
| RS3                             |                          | 676.66'                     | 676.20' ✓                    |
| RS4                             |                          | 675.81'                     | 675.38' ✓                    |
| 5350 Monterey Rd<br>San Jose    | MW1                      | 189.44'                     | 189.02'                      |
|                                 | MW4                      | 190.51'                     | 190.22'                      |
|                                 | MW5                      | 190.96'                     | 190.71'                      |
|                                 | MW6                      | 190.01'                     | 189.70'                      |
|                                 | MW7                      | 190.49'                     | 189.87'                      |
|                                 | MW8                      | 190.95'                     | 190.77'                      |
|                                 | RS9                      | 189.33'                     | 189.01'                      |

**Brian Kangas Foulk**

If you have any questions please call.

Sincerely,

BRIAN KANGAS FOULK



Barry Williams  
Supervisor of Surveys  
Professional Land Surveyor #6711  
Expires 6-30-96.

