RSI REMEDIATION SERVICE, INT'L.
2060 KNOLL DRIVE, SUITE 200, VENTURA, CALIFORNIA 93003
(805) 644-5892 • FAX (805) 654-0720

August 9, 1994

Ms. Jennifer Eberle, Haz. Materials Specialist
Alameda County Health Care Service
Department of Environmental Health
80 Swan Way, Rm. 200
Oakland, CA 94621

Subject: Groundwater Monitoring Report for
4035 Park Blvd.
Oakland, California 94602

Dear Ms. Eberle:

Enclosed is the most recent Groundwater Monitoring Report for the above referenced property.

Please call Mr. Rick Pilat at RSI if you have any questions regarding this report.

Sincerely,

Heather Davis
Remediation Service, Int'l.

cc: John Rutherford
Desert Petroleum

Mr. Rich Hiett
San Francisco Bay RWQCB
2101 Webster St., Ste. 500
Oakland, CA 94612

enclosure

REMEDIATION SERVICE, INT'L.

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

GROUNDWATER MONITORING REPORT
for
4035 Park Blvd.
Oakland, California

Prepared for:
DESERT PETROLEUM
P.O. Box 1601
Oxnard, CA 93032
(805) 644-6784

Prepared by:
RSI - REMEDIATION SERVICE, INT'L
2060 Knoll Drive, Suite 200
Ventura, CA 93003
(805) 644-5892

REGISTERED GEOLOGIST
STATE OF CALIFORNIA

Michael E. Mulhern
E.G. #1507
Exp. 10/31/96

Richard W. Pilat
RSI Program Director

August 5, 1994

TABLE OF CONTENTS

1.0 INTRODUCTION

This report presents the results of groundwater monitoring for the real property located at 4035 Park Boulevard, Oakland, Alameda County, California (Figure 1). Remediation Service, Int'l. (RSI) is under contract to provide environmental services.

The property was previously operated as a retail fuel station under the name of J & M Service Station. The station was leased by Mr. Jason Golpad. In November, 1989, the Alameda County Department of Environmental Health (ACDEH) gave notice that gasoline was leaking into a sewer near the station on Brighton Avenue (Figure 2). Pressure tests revealed a leak in the unleaded supply line. In December, 1989 the fuel tanks were emptied, the station was closed and an Unauthorized Release Report was filed. The fuel tanks and associated product lines were removed in June, 1994.

2.0 SITE DESCRIPTION

The subject property is located at the intersection of Park Boulevard and Hampel Road (Figure 2). Former site improvements included one station building, three steel underground fuel storage tanks, one steel waste oil tank, two pump islands, three on site groundwater monitoring wells and one on site vapor extraction well (Figure 3). One groundwater monitoring well, RS-7, was also installed in the street below and approximately 200 feet northwest of the subject site (Figure 2). All four tanks and associated fuel lines were removed in June, 1994 (Western Geo-Engineers, Waste Oil and Fuel UST and Product Line Removal Sample Report, July 23, 1994).

The site is situated on the flank of a hill which slopes approximately 10 degrees to the west. The surface of the property is fairly level (Figure 3). Based on the U.S. Geologic Survey topographical map quadrangle, the surface elevation of the station is approximately 240 feet above mean sea level (MSL). There is an approximate 12 foot drop from the surface of the property at the far western corner to the ground surface below.

2.0 GROUNDWATER MONITORING

2.1 Groundwater Monitoring Procedures

Groundwater monitoring wells RS-1, RS-5 and RS-7 and vapor extraction well RS-2 were monitored on June 19, 1994; groundwater monitoring well RS-6 was monitored on July 18, 1994. Vapor extraction well RS-2 was inadvertently sampled

this quarter due to mistaken location identification subsequent to construction operations and the presence of water in the well.

Groundwater monitoring protocol was followed for both sampling events. The wells were first measured for depth to water and checked for the presence of free product. The wells were measured to an accuracy of 0.01 feet and the measuring point for each well was the top of the well casing on the north side. Free product was not found in any of the wells. The wells were then purged until dry or a minimum of three well volumes had been removed. Purging was accomplished using a PVC bailer; the PVC bailer was decontaminated between each well with TSP and a standard 3-bucket wash method. 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). The purged water was placed in 55 gallon DOT approved drums which were sealed and labeled as pending laboratory analysis.

Once the well parameters had stabilized and each well had recharged to a minimum of 80 percent of its initial water level, the wells were sampled using disposable polyethylene bailers. The samples were sealed, labeled and placed on blue ice for transportation under standard Chain of Custody to Coast to Coast Analytical, a state certified laboratory in San Jose. All samples were analyzed for total petroleum hydrocarbons as gasoline (TPH) using EPA Method 8015M, and benzene, toluene, ethyl-benzene and total xylenes (BTEX) using EPA Method 8020. The laboratory report and chain of custody are included as Appendix B.

2.2 Groundwater Monitoring Results

Depth to groundwater on June 19, 1994 ranged between 13.37 feet and 18.11 feet below ground surface (bgs) in the wells measured on site (RS-1 & RS-5; Table 1). Well RS-6 was later measured on July 18, 1994 and reported a depth to water of 14.45 feet bgs. The original survey datum for each of the wells onsite has been changed due to damage from heavy equipment and/or wellhead piping modifications for connection to remediation equipment; therefore the groundwater flow direction on this site could not be determined. Previous monitoring reported groundwater flow in a northwesterly direction.

RSI has been contracted to repair the wells on site and survey the well head elevations. Future reports, including the next report which will be submitted in October, 1994, will contain groundwater gradient data.

Analytical results for the samples collected during the current and previous monitoring episodes are summarized on Table 2 and the current results are shown graphically on Figure 4. The laboratory report and Chain-of-Custody documents are

included in Appendix B. As reported on Table 2, elevated concentrations of TPH and BTEX were detected in the samples collected from all five wells.

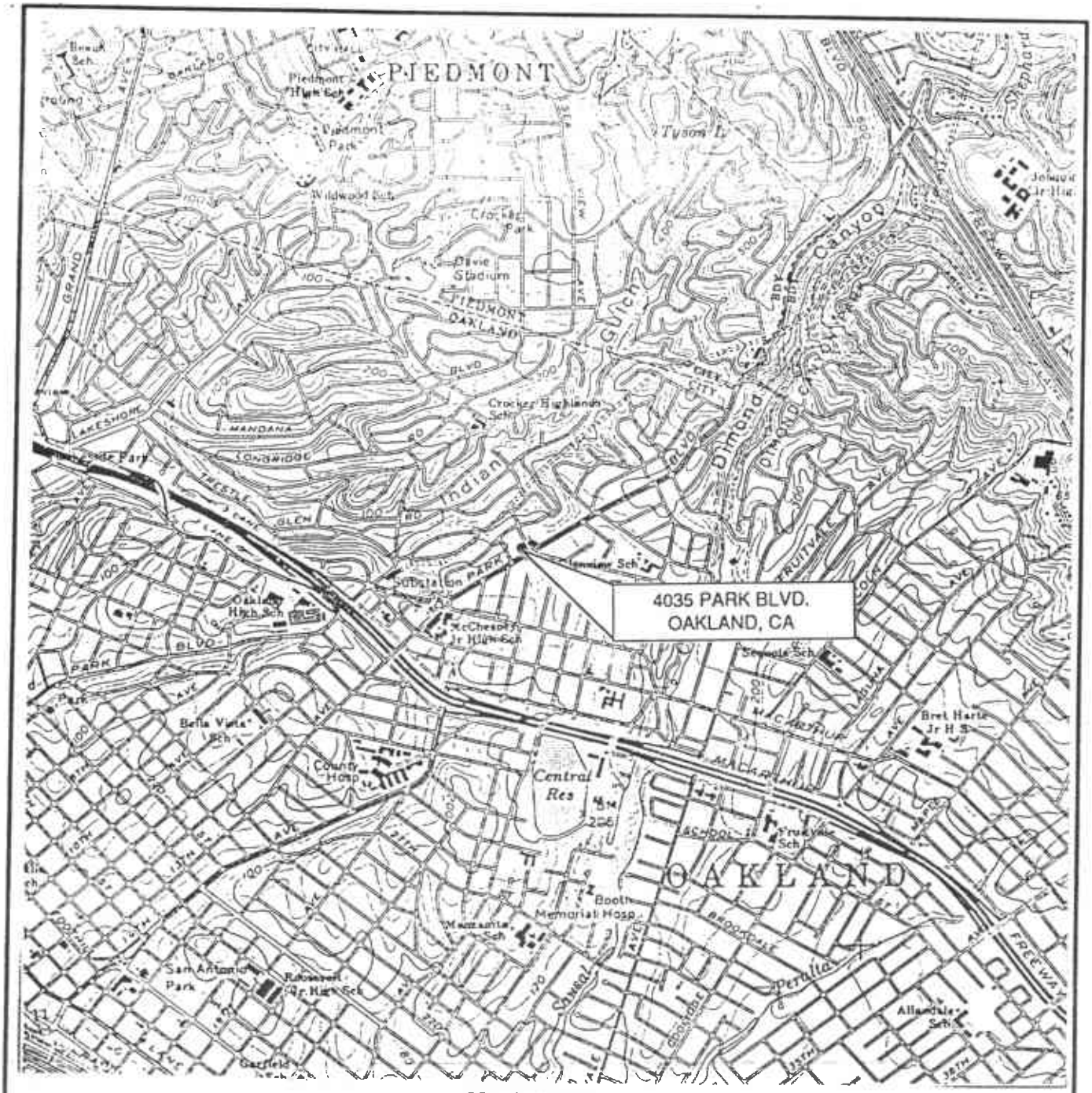
3.0 LIMITATIONS

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 and any other applicable 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.

Please note that contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.



SCALE 1:24000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

DOTTED LINES REPRESENT 5-FOOT CONTOURS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER

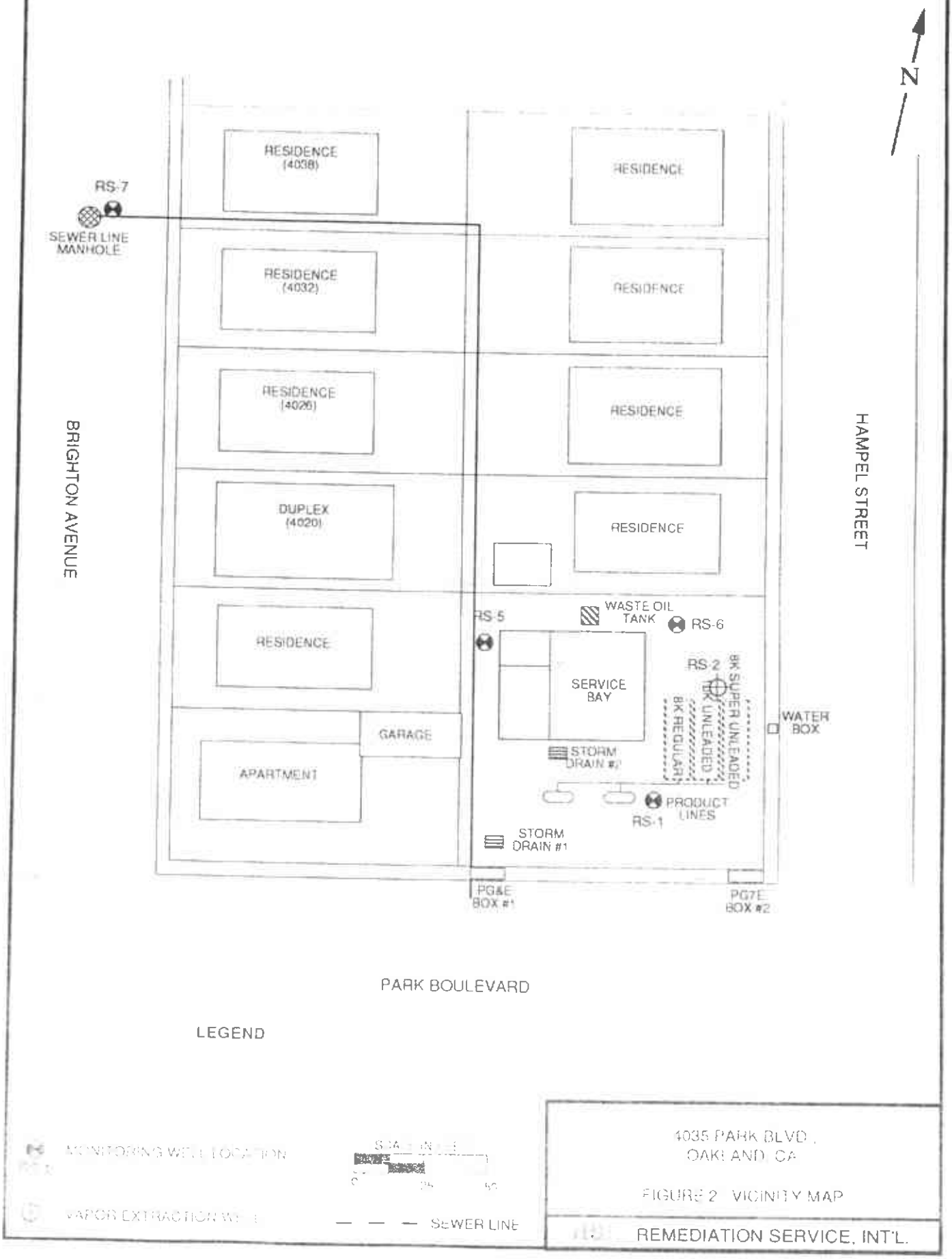
FROM U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLE "OAKLAND EAST, CALIFORNIA," 1959, PHOTOREVISED 1980.

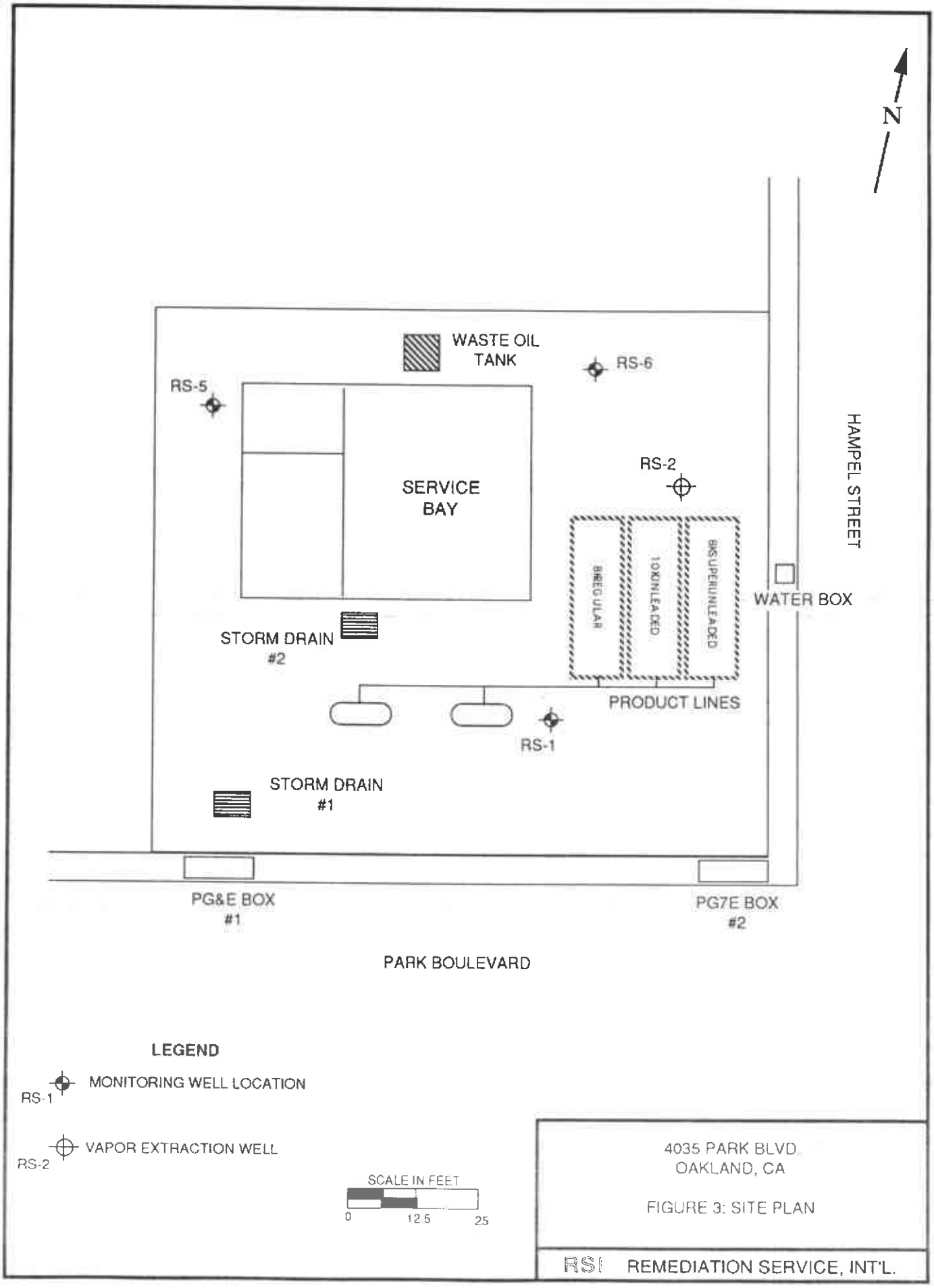
N

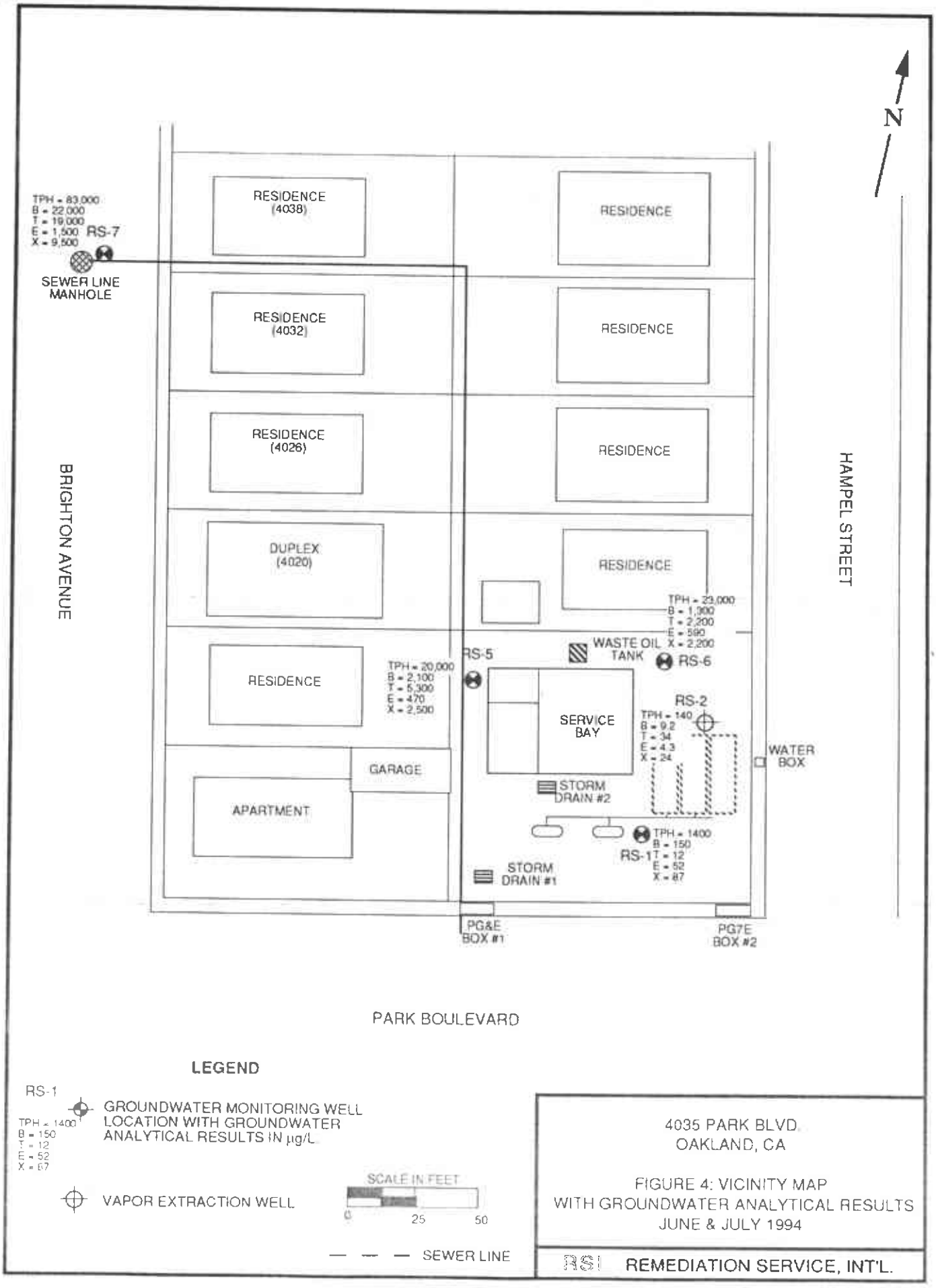
4035 PARK BLVD.,
OAKLAND, CA

FIGURE 1: LOCATION MAP

RSI REMEDIATION SERVICE, INT'L.


N
RESIDENCE (4038)
RESIDENCE
RS-7
SEWER LINE MANHOLE
RESIDENCE (4032)
RESIDENCE
RESIDENCE (4026)
RESIDENCE
BRIGHTON AVENUE
DUPLEX (4020)
RESIDENCE
HAMPEL STREET
RESIDENCE
WASTE OIL TANK
RS-5
RS-6
RS-2
SERVICE BAY
8K SUPER UNLEADED
8K UNLEADED
8K REGULAR
WATER BOX
GARAGE
STORM DRAIN #2
APARTMENT
PRODUCT LINES
RS-1
STORM DRAIN #1
PG&E BOX #1
PG7E BOX #2
PARK BOULEVARD
LEGEND
MONITORING WELL LOCATION
VAPOR EXTRACTION WELL
SEWER LINE
4035 PARK BLVD., OAKLAND, CA
FIGURE 2 VICINITY MAP
REMEDIATION SERVICE, INT'L.


N
WASTE OIL TANK
RS-6
RS-5
SERVICE BAY
RS-2
HAMPEL STREET
WATER BOX
BREGULAR
10KUNLEADED
8KSUPERUNLEADED
STORM DRAIN #2
PRODUCT LINES
RS-1
STORM DRAIN #1
PG&E BOX #1
PG7E BOX #2
PARK BOULEVARD
LEGEND
RS-1 MONITORING WELL LOCATION
RS-2 VAPOR EXTRACTION WELL
SCALE IN FEET
0 12.5 25
4035 PARK BLVD.
OAKLAND, CA
FIGURE 3: SITE PLAN
RSI REMEDIATION SERVICE, INT'L.



LEGEND

RS-1
TPH = 1400
B = 150
T = 12
E = 52
X = 87
GROUNDWATER MONITORING WELL LOCATION WITH GROUNDWATER ANALYTICAL RESULTS IN µg/L

VAPOR EXTRACTION WELL

SCALE IN FEET
0 25 50

— — — SEWER LINE

4035 PARK BLVD.
OAKLAND, CA

FIGURE 4: VICINITY MAP
WITH GROUNDWATER ANALYTICAL RESULTS
JUNE & JULY 1994

RSI REMEDIATION SERVICE, INT'L.

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
4035 PARK BLVD.
OAKLAND, CA

Measurements are in feet.

Well	Date Measured	Depth to Water	Well Head Elevation*	Water Table Elevation*	Change in Elevation
RS-1	11/9/92	17.05	100.18	83.13	
	4/7/94	13.00		87.18	4.05
	6/19/94	13.37		86.81	-0.37
RS-5	11/9/92	20.73	98.99	78.26	
	4/7/94	18.16		80.83	2.57
	6/19/94	18.11		80.88	0.05
RS-6	11/9/92	19.43	99.27	79.84	
	4/7/94	14.42		84.85	5.01
	7/18/94	14.45		84.82	-0.03
RS-7	11/9/92	4.62	67.88**	63.26	
	4/7/94	4.03		63.85	0.59
	6/19/94	4.07		63.81	-0.04

*Elevation in feet above Mean Sea Level.

**RS-7 elevation from survey, RESNA Groundwater Monitoring Report 2/92.

Wells RS-1, -5, and -6 elevations were resurveyed with
RS-1 elevation datum taken from RESNA survey.

TABLE 2
SUMMARY OF GROUND WATER ANALYTICAL RESULTS
4035 PARK BLVD.
OAKLAND, CA

Measurements are in µg/L (parts per billion)

WELL #	DATE SAMPLED	TPH (as gasoline)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
RS-1	12/89	19,000	2,600	2,700	200	1,200
	12/90	15,000	3,500	330	170	760
	2/91	6,900	910	200	39	540
	6/91	1,600	56	180	12	26
	9/91	4,100	730	7.6	5.1	24
	12/91	8,300	950	160	71	190
	11/92	1,700	730	9.6	16	14
	4/94	860	84	12	16	110
6-19-94	6/94	1,400 ✓	150 ✓	12	52	87
VEW →	RS-2 6/94	140 ✓	9.2 ✓	34	4.3	24
RS-5	12/89	57,000	3,100	4,300	670	3,400
	2/91	Not sampled due to presence of free product				
	6/91	Not sampled due to presence of free product				
	9/91	Not sampled due to presence of free product				
	12/91	Not sampled due to presence of free product				
	11/92	50,000	650	4,800	1,100	15,000
	4/94	27,000	5,000	8,700	550	2,800
	6/94	20,000 ✓	2,100 ✓	5,300	470	2,500
RS-6	12/89	11,000	1,400	1,700	160	860
	2/91	Not sampled due to presence of free product				
	6/91	95,000	4,200	4,200	650	3,700
	9/91	Not sampled due to presence of free product				
	12/91	64,000	3,700	2,300	730	4,100
	11/92	19,000	1,600	710	500	1,600
	4/94	16,000	1,200	1,300	290	1,100
	7/94	23,000 ✓	1,300 ✓	2,200	590	2,200
RS-7	7/90	5,600,000	24,000	210,000	50,000	740,000
	2/91	Not sampled due to presence of free product				
	6/91	Not sampled due to presence of free product				
	9/91	Not sampled due to presence of free product				
	12/91	270,000	11,000	22,000	2,000	13,000
	11/92	81,000	12,000	16,000	1,900	13,000
	4/94	74,000	16,000	16,000	1,400	8,500
	6/94	83,000 ✓	22,000 ✓	19,000	1,500	9,500

Note:
TPH analyzed by EPA Method 8015M
BTEX analyzed by EPA Method 8020

WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: **RS-1**

WEATHER CONDITIONS: Clear, sunny, breezy

FIELD OBSERVATIONS: Bailed well until dry.
Well is not secured

TOTAL DEPTH OF WELL: 15.85 feet
DEPTH TO FREE PRODUCT: NONE
DEPTH TO WATER: 13.37 feet
DEPTHS MEASURED FROM: Top of well casing, north side.

CASING DIAMETER: 4 inches
ONE WELL VOLUME = 3.04 gallons
PURGING METHOD: PVC Bailer

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
3:02	0	5.82	87.2	0.99	Clear, organic odor, no turbidity
3:04	2	6.17	83.4	0.99	Clear, organic odor, no turbidity
3:06	5	6.61	81.6	0.99	Clear, organic odor, no turbidity
3:08	10	6.66	79.0	0.99	Clear, organic odor, no turbidity
	Dry				

TOTAL DISCHARGE: 10 gallons
WELL VOLUMES REMOVED: 3.3

TIME SAMPLE COLLECTED: 3:45 PM
DEPTH TO WATER AT TIME OF SAMPLE: 13.37 feet
PERCENT RECHARGE: 100
METHOD OF SAMPLE COLLECTION: Disposable Bailer
APPEARANCE OF SAMPLE: Clear
AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's
SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

RCI REMEDIATION SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-2

WEATHER CONDITIONS: Clear, sunny, breezy

FIELD OBSERVATIONS: Bailed well until dry.

Well is not secured, missing screws on traffic box. Standing water in box.

TOTAL DEPTH OF WELL: 18.80 feet

CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE

ONE WELL VOLUME = 9.68 gallons

DEPTH TO WATER: 10.89 feet

PURGING METHOD: PVC Bailer

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

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
3:10	5	6.72	86.3	6.82	Clear, no odor, no turbidity
3:12	10	6.74	86.3	6.87	Clear, no odor, no turbidity
	Dry				

TOTAL DISCHARGE: 12 gallons

WELL VOLUMES REMOVED: 1.2

TIME SAMPLE COLLECTED: 3:40 PM

DEPTH TO WATER AT TIME OF SAMPLE: 10.89 feet

PERCENT RECHARGE: 100

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's

SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

RESNA REMEDIATION SERVICE, INT'L.
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WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: **RS-5**

WEATHER CONDITIONS: Clear, sunny, breezy

FIELD OBSERVATIONS: Well & traffic box in poor condition - not water tight or secure.

TOTAL DEPTH OF WELL: 39.40 feet

DEPTH TO FREE PRODUCT: NONE

DEPTH TO WATER: 18.11 feet

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

CASING DIAMETER: 4 inches

ONE WELL VOLUME = 26.06 gallons

PURGING METHOD: PVC Bailer

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
3:20	10	6.29	73.2	6.17	Clear, strong odor, no turbidity, sheen
3:35	16	6.70	72.9	6.11	Clear, strong odor, no turbidity, sheen
3:37	21	6.68	73.6	5.64	Clear, strong odor, no turbidity, sheen
3:39	23	6.72	73.2	6.75	Clear, strong odor, no turbidity, sheen
3:41	25	6.52	74.9	7.29	Clear, strong odor, no turbidity, sheen
3:43	27	6.48	74.3	7.44	Clear, strong odor, no turbidity, sheen
3:45	30	6.49	74.3	7.45	Clear, strong odor, no turbidity, sheen
3:47	35	6.48	74.9	7.45	Clear, strong odor, no turbidity, sheen
3:52	45	6.46	74.3	7.43	Clear, strong odor, no turbidity, sheen

TOTAL DISCHARGE: 78 gallons

WELL VOLUMES REMOVED: 3.0

TIME SAMPLE COLLECTED: 4:00 PM

DEPTH TO WATER AT TIME OF SAMPLE: 18.11 feet

PERCENT RECHARGE: 100

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's

SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

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(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: **RS-7**

WEATHER CONDITIONS: Clear, sunny, breezy

FIELD OBSERVATIONS: Well in good condition.
Bailed until dry.

TOTAL DEPTH OF WELL: 7.16 feet
DEPTH TO FREE PRODUCT: NONE
DEPTH TO WATER: 4.07 feet
DEPTHS MEASURED FROM: Top of well casing, north side.

CASING DIAMETER: 4 inches
ONE WELL VOLUME = 3.78 gallons
PURGING METHOD: PVC Bailer

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
3:20	3	7.23	82.3	4.91	Clear, organic odor, no turbidity
3:30	5	7.21	81.4	5.10	Clear, organic odor, no turbidity
3:32	8	7.25	82.6	5.25	Clear, organic odor, no turbidity
3:35	12	7.21	82.6	5.25	Clear, organic odor, no turbidity
	Dry				

TOTAL DISCHARGE: 12 gallons
WELL VOLUMES REMOVED: 3.2

TIME SAMPLE COLLECTED: 4:07 PM
DEPTH TO WATER AT TIME OF SAMPLE: 4.07 feet
PERCENT RECHARGE: 100
METHOD OF SAMPLE COLLECTION: Disposable Bailer
APPEARANCE OF SAMPLE: Clear
AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's
SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

REMEDIATION SERVICE, INT'L.
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(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 7/18/94

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-6

WEATHER CONDITIONS: Clear, sunny, breezy

FIELD OBSERVATIONS: Bailed well until dry.

TOTAL DEPTH OF WELL: 34.05 feet
DEPTH TO FREE PRODUCT: NONE
DEPTH TO WATER: 14.45 feet
DEPTHS MEASURED FROM: Top of well casing, north side.

CASING DIAMETER: 4 inches
ONE WELL VOLUME = 23.99 gallons
PURGING METHOD: PVC Bailer

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
9:50	5	5.86	82.3	6.11	Clear, strong odor
9:55	10	6.21	86.1	6.15	Clear, strong odor
10:00	15	6.29	85.8	6.10	Clear, strong odor
10:05	20	6.28	85.7	6.10	Clear, strong odor
	Dry	6.28	85.4	6.12	Clear, strong odor

TOTAL DISCHARGE: 20 gallons
WELL VOLUMES REMOVED: 0.8

TIME SAMPLE COLLECTED: 11:00 AM
DEPTH TO WATER AT TIME OF SAMPLE: 14.43 feet
PERCENT RECHARGE: 100
METHOD OF SAMPLE COLLECTION: Disposable Bailer
APPEARANCE OF SAMPLE: Clear
AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's
SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

REMEDIATION 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

EXCELLENCE IN ANALYSIS

COAST-TO-COAST ANALYTICAL SERVICES, INC.

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

Lab Number : JK-1957-1
Project : Desert Petroleum 793

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

Analyzed : 06/27/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
793, RS-1	Groundwater	Debbie Wilson	06/19/94 1545	06/20/94

CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		5.	150.	
Toluene		5.	12.	
Ethylbenzene		5.	52.	
Xylenes		5.	87.	
Total Petroleum Hydrocarbons (Gasoline)		500.	1400.	
Percent Surrogate Recovery			96.	

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)

06/28/94
GC#2\623B636
DT/eta3(dw)/jst
W-BTX-062794

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

Dudley Torres
Organics Manager

COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.
San Jose, CA 95131
(408) 955-9077

Lab Number : JK-1957-2
Project : Desert Petroleum 793

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

Analyzed : 06/27/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
793, RS-5	Groundwater	Debbie Wilson	06/19/94 1555	06/20/94

CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		30.	2100.	
Toluene		30.	5300.	
Ethylbenzene		30.	470.	
Xylenes		30.	2500.	
Total Petroleum Hydrocarbons (Gasoline)		3000.	20000.	
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)

06/28/94
GC#2\623B634
DT/eta3(dw)/jst
W-BTX-062794

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

Dudley Torres
Organics Manager

EXCELLENCE IN ANALYSIS

COAST-TO-COAST ANALYTICAL SERVICES, INC.

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-1957-3
Project : Desert Petroleum 793

Analyzed : 06/27/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
793 RS-6 2	Groundwater	Debbie Wilson	06/19/94 1540	06/20/94

CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.5	9.2	
Toluene		0.5	34.	
Ethylbenzene		0.5	4.3	
Xylenes		0.5	24.	
Total Petroleum Hydrocarbons (Gasoline)		50.	140.	
Percent Surrogate Recovery			99.	

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)

06/28/94
GC#2\623B632
DT/eta3(dw)/jst
W-BTX-062794

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

Dudley Torres
Organics Manager

EXCELLENCE IN ANALYSIS

COAST-TO-COAST ANALYTICAL SERVICES, INC.

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-1957-4
Project : Desert Petroleum 793

Analyzed : 06/27/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
793, RS-7	Groundwater	Debbie Wilson	06/19/94 1610	06/20/94

CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		100.	22000.	
Toluene		100.	19000.	
Ethylbenzene		100.	1500.	
Xylenes		100.	9500.	
Total Petroleum Hydrocarbons (Gasoline)		10000.	83000.	
Percent Surrogate Recovery			95.	

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)

06/28/94
GC#2/627A317
DT/eta3(dw)/lmd
W-BTX-062794

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

Dudley Torres
Organics Manager

COAST TO COAST ANALYTICAL SERVICES

141 Suburban Road	San Luis Obispo, CA 93401	(805) 543-2553	FAX (805) 543-2685
2059 Junction Ave.	San Jose, CA 95131	(408) 955-9077	FAX (408) 955-9078
6006 Egret Ct.	Benicia, CA 94510	(707) 747-2757	FAX (707) 747-2765
2400 Cumberland Dr.	Valparaiso, Indiana 46383	(219) 464-2389	FAX (219) 462-2953
4765 Calle Quetzal	Camarillo, CA 93012	(805) 389-1353	FAX (805) 389-1438
340 County Road No. 5	Westbrook, ME 04092	(207) 874-2400	FAX (207) 775-4029

Chain of Custod

• PLEASE PRINT IN PEN

Client	Contact	Phone #	FAX #
Address	City	State	Zip
Project Name/Number		Project MGR	
Bill (If different than above)	Address		
Sampler (Print and sign)	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 #
			3			TPH gas, BTEX		
			3					
			3					
			3					

Relinquished By	Date/Time	Received By	Relinquished By	Date/Time	Received By

FOR LAB USE ONLY

Shipping Method	Shipping #	Received By	Date/Time	Condition (See Remarks) Cold	Sealed	Intact
				✓		✓

REMARKS

INVOICE

* 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

EXCELLENCE IN ANALYSIS

COAST-TO-COAST ANALYTICAL SERVICES, INC.

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-2224-1
Project : Desert Petroleum #793

Analyzed : 07/19/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
DP793 RS-6	Groundwater	Debbie Wilson	07/18/94 1100	07/18/94

CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		30.	1300	
Toluene		30.	2200.	
Ethylbenzene		30.	590.	
Xylenes		30.	2200.	
Total Petroleum Hydrocarbons (Gasoline)		3000.	23000.	
Percent Surrogate Recovery			93.	

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)

07/26/94
GC#4\719A623
DT/eta3(dw)/jst
W-GAS-071994

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

Dudley-Terres
Organics Manager

COAST TO COAST ANALYTICAL SERVICES

141 Suburban Road • San Luis Obispo, CA 93401 • (805) 543-2553 FAX (805) 543-2685
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Chain of Custod

• PLEASE PRINT IN PEN

Client	Contact	Phone # ( )	FAX # ( )
Address	City	State	Zip
Project Name/Number		Project MGR	
Bill (If different than above)	Address		
Sampler (Print and sign)	Due Date	Circle for RUSH*	Copies To: / Auth. Init.

* Subject to Availability

Sample Description	Date/Time Coll'd	*Matrix	# of Containers	Pres.	Filt. y/n	Analysis	Remarks	Lab ID #
								2324

Relinquished By	Date/Time	Received By	Relinquished By	Date/Time	Received By

FOR LAB USE ONLY

Shipping Method	Shipping #	Received By	Date/Time	Condition (See Remarks)		
				Cold ✓	Sealed	Intact

REMARKS _____

* 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 _____

INVOICE