



April 20, 1994

SPID 4B

Brian Oliva  
Alameda County Department  
of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Shell Service Station  
WIC #204-5508-2404  
2800 Telegraph Avenue  
Oakland, California  
WA Job #81-700-104

Dear Mr. Oliva:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the first quarter 1994 and proposed work for the second quarter 1994.

First Quarter 1994 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells. Well S-3 is paved over and could not be located or sampled. Well SR-1 is a ground water extraction well and is not sampled. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2) and prepared a ground water elevation contour map (Figure 2).

94 APR 28 PM 1:20

ALCO  
HAZMAT



**Weiss Associates**

Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411

ALCO  
HAZMAT

Fax: 510-547-5043 Phone: 510-450-6000

94 MAY -5 PM 4: 16

May 3, 1994

Brian Oliva  
Alameda County Department  
of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

S. dwg

STD 4B

Re: Shell Service Station  
WIC #204-5508-2404  
2800 Telegraph Avenue  
Oakland, California  
WA Job #81-700-104

Dear Mr. Oliva:

Due to a copying error, Figure 2 of the first quarter 1994 quarterly monitoring report was inadvertently omitted. Please insert the attached figure into the April 20, 1994 report. I apologize for the inconvenience.

Please call me at (510) 450-6112 if you have any questions.

Sincerely,  
Weiss Associates

John Wolf  
Technical Assistant

JAW/JWC:jaw

J:\SHELL\700\700QMMMA4.LTR

Attachments: A - Figure 2

cc: Lynn Walker, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998  
Richard Hiatt, Regional Water Quality Control Board - San Francisco Bay Region, 2101  
Webster Street, Suite 500, Oakland, California 94612

**EXPLANATION**

- ⊙ S-3 Ground water monitoring well
- ⊕ SR-1 Ground water recovery well
- ◆ SV-1 Vapor extraction well
- ⊘ S-2 Abandoned well
- 22.44 Ground water elevation, ft above mean sea level (msl)
- 23.0 Ground water elevation contour, ft above msl, approximately located, dashed where inferred
- Inferred ground water flow direction

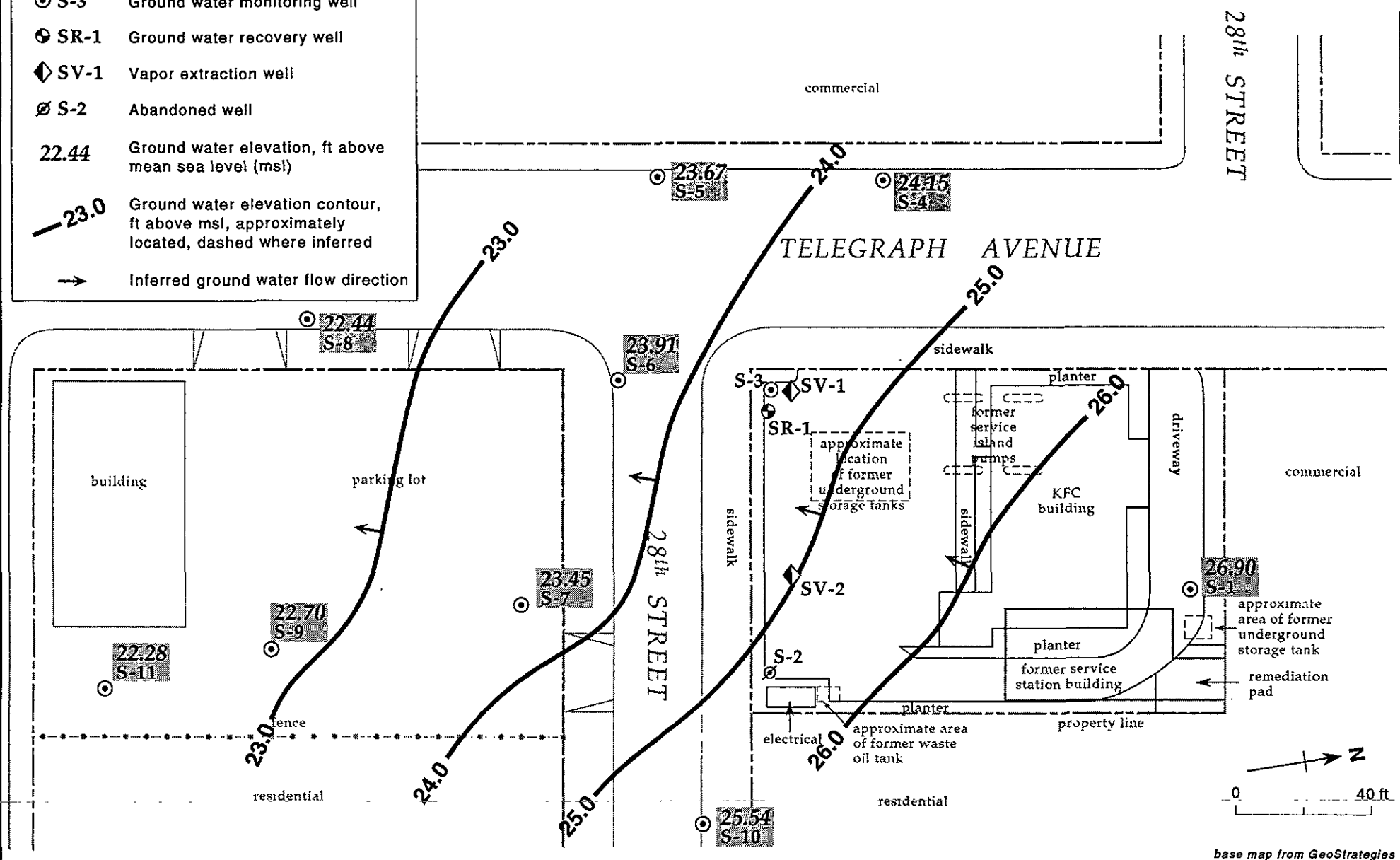


Figure 2. Monitoring Well Locations and Ground Water Elevations - February 10, 1994 - Former Shell Service Station WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

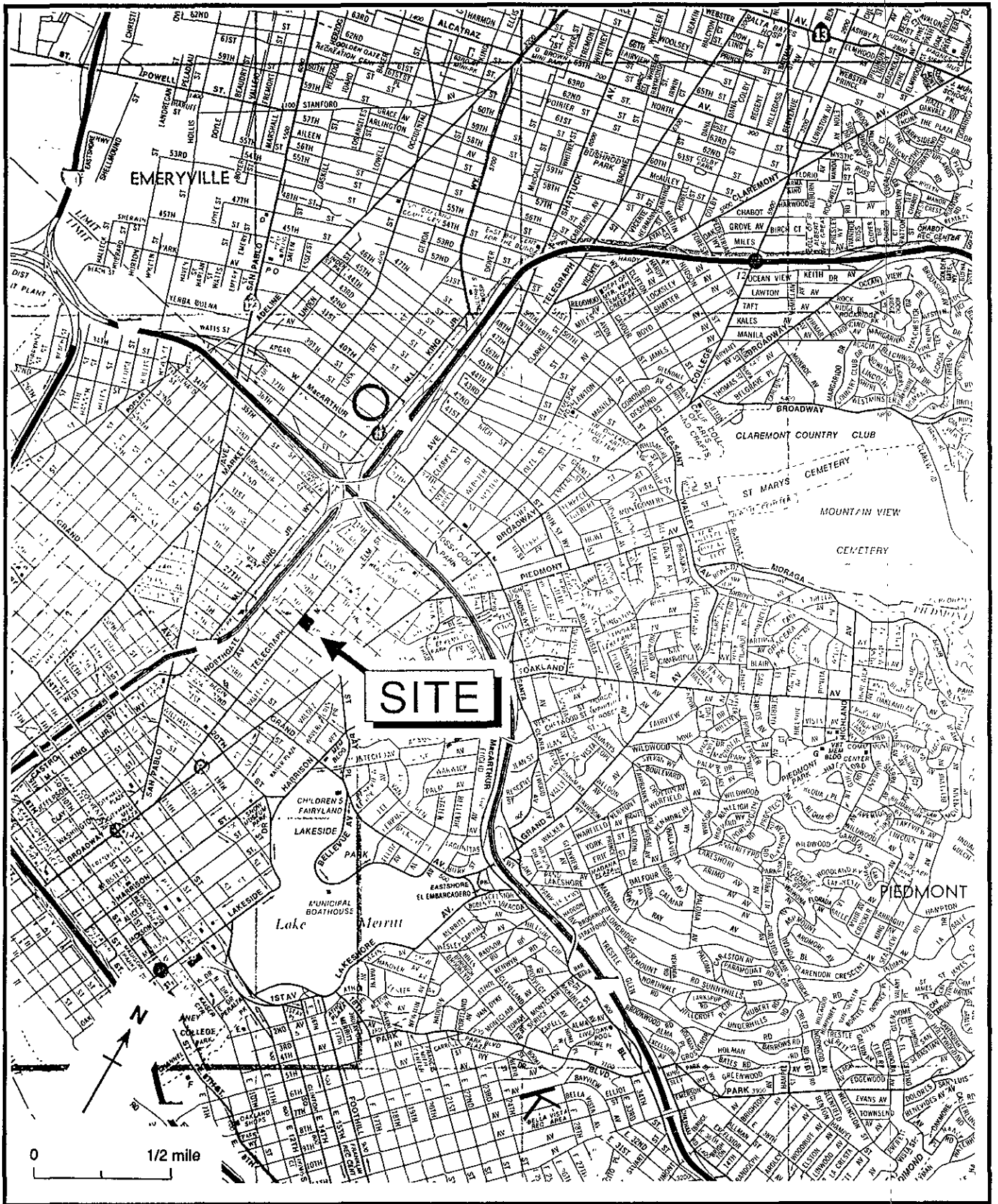


Figure 1. Site Location Map - Former Shell Service Station WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-2303, 2800 Telegraph Avenue, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
S-1	05/04/92	35.31	9.50	25.81
	08/10/92		10.85	24.46
	11/09/92		10.34	24.97
	02/22/93		7.60	27.71
	06/07/93		8.63	26.68
	08/13/93		9.20	26.11
	11/18/93		10.58	24.73
	02/10/94		8.41	26.90
S-2	05/04/92	33.91	9.44	24.47
	08/10/92		10.73	23.18
	11/09/92		10.29	23.62
	02/22/93 <sup>a</sup>		9.04	24.87
S-3	05/04/92	33.56	9.22	24.34
	08/10/92 <sup>b</sup>		---	---
	11/09/92 <sup>b</sup>		---	---
	02/22/93 <sup>b</sup>		---	---
	06/07/93 <sup>b</sup>		---	---
	08/13/93 <sup>b</sup>		---	---
	11/18/93 <sup>b</sup>		---	---
	02/10/94 <sup>b</sup>		---	---
S-4	05/04/92	34.08	9.96	24.12
	08/10/92		11.32	22.76
	11/09/92		11.29	22.79
	02/22/93		9.82	24.26
	06/07/93		10.51	23.57
	08/13/93		11.05	23.03
	11/18/93		11.34	22.74
	02/10/94		9.93	24.15
S-5	05/04/92	33.42	10.27	23.15
	08/10/92		10.68	22.74
	11/09/92		10.69	22.73
	02/22/93		9.45	23.97
	06/07/93		10.23	23.19
	08/13/93		10.58	22.84
	11/18/93		10.70	22.72
	02/10/94		9.75	23.67

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-2303, 2800 Telegraph Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
S-6	05/04/92	32.59	9.42	23.17
	08/10/92		10.40	22.19
	11/09/92		10.16	22.43
	02/22/93		7.60	24.99
	06/07/93		8.90	23.69
	08/13/93		9.39	23.20
	11/18/93		10.32	22.27
	<b>02/10/94</b>		<b>8.68</b>	<b>23.91</b>
S-7	05/04/92	33.33	11.21	22.12
	08/10/92		12.28	21.05
	11/09/92		11.77	21.56
	02/22/93		8.86	24.47
	06/07/93		10.58	22.75
	08/13/93		11.34	21.99
	11/18/93		12.00	21.33
	<b>02/10/94</b>		<b>9.88</b>	<b>23.45</b>
S-8	05/04/92	31.97	10.29	21.68
	08/10/92		11.12	20.85
	11/09/92		10.71	21.26
	02/22/93		6.04	25.93
	06/07/93		10.06	21.91
	08/13/93		10.56	21.41
	11/18/93		10.90	21.07
	<b>02/10/94</b>		<b>9.53</b>	<b>22.44</b>
S-9	05/04/92	31.86	10.45	21.41
	08/10/92		11.52	20.34
	11/09/92		11.02	20.84
	02/22/93		8.00	23.86
	06/07/93		10.07	21.79
	08/13/93		10.92	20.94
	11/18/93		11.19	20.67
	<b>02/10/94</b>		<b>9.16</b>	<b>22.70</b>
S-10	05/04/92	32.95	8.54	24.41
	08/10/92		10.43	22.52
	11/09/92		9.14	23.81

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-2303, 2800 Telegraph Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	02/22/93		6.72	26.23
	06/07/93		8.08	24.87
	08/13/93		8.83	24.12
	11/18/93		9.46	23.49
	<b>02/10/94</b>		<b>7.41</b>	<b>25.54</b>
S-11	05/04/92	30.78	9.99	20.79
	08/10/92		10.92	19.86
	11/09/92		10.44	20.34
	02/22/93		7.30	23.48
	06/07/93		9.51	21.27
	08/13/93		10.39	20.39
	11/18/93		10.64	20.14
	<b>02/10/94</b>		<b>8.50</b>	<b>22.28</b>
SR-1	05/04/92 <sup>c</sup>	---	9.02	---
	08/10/92		10.29	---
	11/09/92		10.92	---
	02/22/93		6.64	---
	06/07/93		7.36	---
	08/13/93		7.96	---
	11/18/93		10.02	---
	<b>02/10/94</b>		<b>---</b>	<b>---</b>

Notes:

- a = Destroyed on April 8, 1993 for onsite construction  
 b = Well inaccessible  
 c = Top-of-Casing not surveyed

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

Sample ID	Date	Depth to Water (ft)	TPH-G					X
			B	E	T	X		
-----parts per billion (µg/L)-----								
<b>WELLS</b>								
S-1	05/04/92	9.50	<50	<0.5	<0.5	<0.5	<0.5	
	08/10/92	10.85	<50	<0.5	<0.5	<0.5	<0.5	
	11/09/92	10.34	<50	<0.5	<0.5	<0.5	<0.5	
	02/23/93	7.60	<50	<0.5	<0.5	<0.5	<0.5	
	06/07/93	8.63	<50	2.8	0.7	1.3	3.0	
	08/13/93	9.20	<50	<0.5	<0.5	<0.5	<0.5	
	11/18/93	10.58	<50	<0.5	<0.5	<0.5	<0.5	
	02/10/94	8.41	<50	<0.5	<0.5	<0.5	<0.5	
S-2	05/04/92	9.44	1,600	190	240	6	54	
	08/10/92	10.73	<50	4.1	<0.5	<0.5	<0.5	
	09/11/92	10.29	84	19	2.2	0.7	4.3	
	02/23/93	9.04	16,000	1,600	850	480	1,800	
	06/07/93	Well destroyed	---	---	---	---	---	
	S-3	05/04/92	9.22	---	---	---	---	---
	08/10/92	Well covered	---	---	---	---	---	
	11/09/92	"	---	---	---	---	---	
	02/23/93	"	---	---	---	---	---	
	06/07/93	"	---	---	---	---	---	
S-4	05/04/92	9.96	<50	<0.5	<0.5	<0.5	<0.5	
	08/10/92	11.32	<50	<0.5	<0.5	<0.5	<0.5	
	11/09/92	11.29	<50	<0.5	<0.5	<0.5	<0.5	
	02/23/93	9.82	<50	<0.5	<0.5	<0.5	<0.5	
	06/07/93	10.51	50	9.2	3.3	5.5	14	
	08/13/93	11.05	<50	<0.5	<0.5	<0.5	<0.5	
	11/18/93	11.34	<50	<0.5	<0.5	<0.5	<0.5	
	02/10/94	9.93	<50	<0.5	<0.5	<0.5	<0.5	
S-5	05/04/92	10.27	<50	<0.5	<0.5	<0.5	<0.5	
	08/10/92	10.68	<50	<0.5	<0.5	<0.5	<0.5	
	11/09/92	10.69	<50	<0.5	<0.5	<0.5	<0.5	
	02/23/93	9.45	<50	<0.5	<0.5	<0.5	<0.5	
	06/07/93	10.23	<50	<0.5	<0.5	<0.5	<0.5	
	08/13/93	10.58	<50	<0.5	<0.5	<0.5	<0.5	
	11/18/93	10.70	<50	<0.5	<0.5	<0.5	<0.5	
	02/10/94	9.75	<50	<0.5	<0.5	<0.5	<0.5	
S-6	05/04/92	9.42	3,100	640	23	22	97	
	08/10/92	10.40	3,400	430	26	27	120	
	11/09/92	10.16	2,000	320	15	15	100	

Weiss Associates



-- Table 2 continues on next page --



Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G				
			B	E	T	X	
			-----parts per billion (µg/L)-----				
	02/23/93	7.60	14,000	780	380	180	1,300
	06/07/93	8.90	3,900	1,400	83	56	210
	08/13/93	9.39	4,000 <sup>a</sup>	890	<0.5	16	41
	11/18/93	10.32	80	5.0	<0.5	<0.5	<0.5
	02/10/94	8.68	4,100	370	21	23	90
S-7	05/04/92	11.21	180	1.6	1.5	<0.5	3
	08/10/92	12.28	190	8	4.7	1.4	8.5
	11/09/92	11.77	280	16	7.8	4	21
	02/23/93	8.86	210	13	5.4	2.2	12
	06/07/93	10.58	90	1.2	1.0	2.5	<0.5
	08/13/93	11.34	140	4.0	<0.5	0.8	0.5
	11/18/93	12.00	440	43	0.9	4.9	4.2
	02/10/94	9.88	250 <sup>b</sup>	<0.5	1.8	<0.5	<0.5
S-8	05/05/92	10.29	1,600	20	96	420	330
	08/10/92	11.12	1,500	19	60	37	250
	11/09/92	10.71	710	5.7	28	24	120
	02/23/93	6.04	3,800	40	68	54	260
	06/07/93	10.06	1,200	13	65	19	150
	08/13/93	10.56	1,300	21	49	23	250
	11/18/93	10.90	870	16	59	5.3	230
	02/10/94	9.53	2,400	11	120	55	530
	02/10/94 <sup>dup</sup>	9.53	2,400	11	100	46	440
S-9	05/05/92	10.45	<50	<0.5	<0.5	<0.5	<0.5
	08/10/92	11.52	<50	<0.5	<0.5	<0.5	<0.5
	11/09/92	11.02	<50	<0.5	<0.5	<0.5	0.7
	02/23/92	8.00	<50	<0.5	<0.5	<0.5	<0.5
	06/07/93	10.07	<50	<0.5	<0.5	<0.5	<0.5
	08/13/93	10.92	140 <sup>b</sup>	<0.5	<0.5	<0.5	<0.5
	11/18/93	11.19	170	<0.5	<0.5	<0.5	<0.5
	02/10/94	9.16	140 <sup>b</sup>	<0.5	<0.5	<0.5	<0.5
S-10	05/05/92	8.54	<50	<0.5	<0.5	<0.5	<0.5
	08/10/92	10.43	<50	<0.5	<0.5	<0.5	<0.5
	11/09/92	9.14	<50	<0.5	<0.5	<0.5	<0.5
	02/22/93	6.72	<50	<0.5	<0.5	<0.5	<0.5
	06/07/93	8.08	<50	<0.5	<0.5	<0.5	<0.5
	08/13/93	8.83	<50	<0.5	<0.5	<0.5	<0.5
	11/18/93	9.46	<50	<0.5	<0.5	<0.5	<0.5
	02/10/94	7.41	<50	<0.5	<0.5	<0.5	<0.5

Weiss Associates



Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G B E T X				
			-----parts per billion (µg/L)-----				
S-11	05/04/92	9.99	1,500	55	57	32	190
	08/10/92	10.92	750	29	43	13	120
	11/09/92	10.44	4,100	32	120	62	1,100
	02/23/93	7.30	760	15	37	13	140
	06/07/93	9.51	1,700	40	100	16	360
	06/07/93 <sup>dup</sup>	9.51	1,600	51	83	16	300
	08/13/93	10.39	60	0.9	0.8	<0.5	1.2
	08/13/93 <sup>dup</sup>	10.39	70	2.1	0.9	<0.5	2.1
	11/18/93	10.64	150	7.8	9.0	1.0	12
	02/10/94	8.50	4,400	53	160	19	390
SR-1	11/18/93	10.02	<50	<0.5	<0.5	<0.5	<0.5
	11/18/93 <sup>dup</sup>	10.02	<50	<0.5	<0.5	<0.5	<0.5
Trip	06/04/93		<50	<0.5	<0.5	<0.5	<0.5
Blank	08/13/93		<50	<0.5	<0.5	<0.5	<0.5
	11/18/93		<50	<0.5	<0.5	<0.5	<0.5
	02/10/94		<50	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			NE	1.0	680	100 <sup>c</sup>	1,750

**Abbreviations:**

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015  
 B = Benzene by EPA Method 8020  
 E = Ethylbenzene by EPA Method 8020  
 T = Toluene by EPA Method 8020  
 X = Xylenes by EPA Method 8020  
 --- = Not analyzed  
 DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water  
 NE = Not established  
 <n = Not detected at detection limits of n ppb  
 dup = Duplicate sample

**Notes:**

a = The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.  
 b = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.  
 c = DTSC recommended action level for drinking water; MCL not established



**ATTACHMENT A**

**GROUND WATER MONITORING REPORT AND ANALYTIC REPORT**

## Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Anametrix, Inc. in Anametrix, Inc. is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1234.

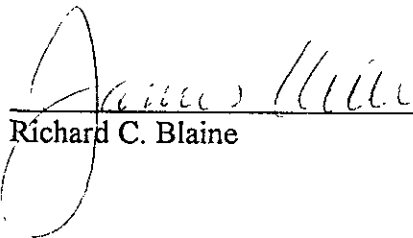
### Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling as an independent third party. In order to avoid compromising the objectivity and disinterested performance of this work, Blaine Tech Services, Inc. consulting and does not become involved in the marketing or installation of any kind. Blaine Tech Services, Inc. is concerned only with the generation of information, not with the use of that information to support evaluation concerning the environmental condition of the site. Even the straightfor- ward objective analytical data is better performed by interested regulatory agencies, engineers and geologists who are engaged in the work of providing proposals about the site and proposals to perform additional investigation or design.

### Reportage

Submission of this report and the attached laboratory report to interested parties is handled by the consultant in charge of the project. Any professional recommendations will be made by the consultant under separate cover.

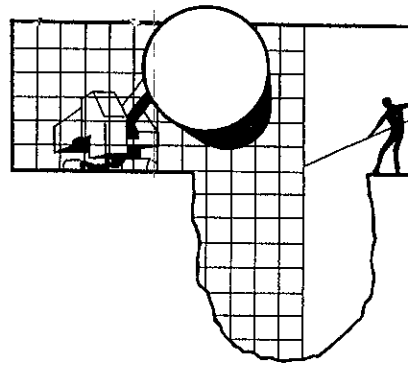
Please call if we can be of any further assistance.

  
Richard C. Blaine

RCB/lp

attachments: table of well gauging data  
chain of custody  
certified analytical report

cc: Weiss Associates  
5500 Shellmound Street  
SEmeryville, CA 94608-2411  
ATTN: Michael Asport



Shell Oil Company  
P.O. Box 5278  
Concord, CA 94520

Attn: Lynn W.

### QUARTERLY

This report contains  
groundwater monitoring  
request of the consultant  
Shell Oil Company  
TABLE OF WELL  
preliminary gauging  
prior to sampling

Measurements taken  
of water was found  
a thin film (a sheen)  
(FPZ). At intervals  
instruments that  
temperature (degrees Fahrenheit)  
information is tabulated  
the consultant will  
at the site.

## TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	2/10/94	TOB	--	NONE	--	--	8.41	27.83
S-4	2/10/94	TOB	--	NONE	--	--	9.93	30.48
S-5	2/10/94	TOB	--	NONE	--	--	9.75	30.61
S-6	2/10/94	TOB	ODOR	NONE	--	--	8.68	22.19
S-7	2/10/94	TOB	--	NONE	--	--	9.88	30.61
S-8 *	2/10/94	TOB	--	NONE	--	--	9.53	19.22
S-9	2/10/94	TOB	--	NONE	--	--	9.16	30.09
S-10	2/10/94	TOB	--	NONE	--	--	7.41	24.28
S-11	2/10/94	TOB	--	NONE	--	--	8.50	19.21

\* Sample DUP was a duplicate sample taken from well S-8.







# Inchcape Testing Services

## Anamatrix Laboratories

1961 Concourse Drive  
 Suite E  
 San Jose, CA 95131  
 Tel: 408-432-8192  
 Fax: 408-432-8198

MR. JIM KELLER  
 BLAINE TECH  
 985 TIMOTHY DRIVE  
 SAN JOSE, CA 95133

Workorder # : 9402125  
 Date Received : 02/11/94  
 Project ID : 204-5508-2303  
 Purchase Order: MOH-B813

The following samples were received at Anamatrix for analysis :

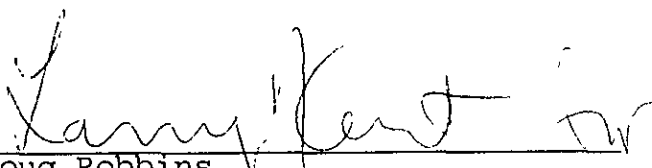
ANAMATRIX ID	CLIENT SAMPLE ID
9402125- 1	S-1
9402125- 2	S-4
9402125- 3	S-5
9402125- 4	S-6
9402125- 5	S-7
9402125- 6	S-8
9402125- 7	S-9
9402125- 8	S-10
9402125- 9	S-11
9402125-10	DUP
9402125-11	TB

This report consists of 10 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anamatrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anamatrix.

  
 \_\_\_\_\_  
 Doug Robbins  
 Laboratory Director

2-22-94  
 \_\_\_\_\_  
 Date



REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JIM KELLER  
BLAINE TECH  
985 TIMOTHY DRIVE  
SAN JOSE, CA 95133

Workorder # : 9402125  
Date Received : 02/11/94  
Project ID : 204-5508-2303  
Purchase Order: MOH-B813  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9402125- 1	S-1	WATER	02/10/94	TPHgBTEX
9402125- 2	S-4	WATER	02/10/94	TPHgBTEX
9402125- 3	S-5	WATER	02/10/94	TPHgBTEX
9402125- 4	S-6	WATER	02/10/94	TPHgBTEX
9402125- 5	S-7	WATER	02/10/94	TPHgBTEX
9402125- 6	S-8	WATER	02/10/94	TPHgBTEX
9402125- 7	S-9	WATER	02/10/94	TPHgBTEX
9402125- 8	S-10	WATER	02/10/94	TPHgBTEX
9402125- 9	S-11	WATER	02/10/94	TPHgBTEX
9402125-10	DUP	WATER	02/10/94	TPHgBTEX
9402125-11	TB	WATER	02/10/94	TPHgBTEX

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

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BLAINE TECH  
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Date Received : 02/11/94  
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Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as gasoline for samples S-7 and S-9 are primarily due to the presence of a discrete peak not indicative of gasoline.

Chris Balman 2/22/94  
Department Supervisor Date

Dr. Robert 02/22/94  
Chemist Date

**Total Petroleum Hydrocarbons as Gasoline with BTEX**  
**ITS - Anamatrix Laboratories - (408)432-8192**

Lab Workorder : 9402125

Client Project ID : 204-5508-2303

Matrix : WATER

Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		S-1	S-4	S-5	S-6	S-7
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9402125-01	9402125-02	9402125-03	9402125-04	9402125-05
Benzene	0.50	ND	ND	ND	370	ND
Toluene	0.50	ND	ND	ND	23	ND
Ethylbenzene	0.50	ND	ND	ND	21	1.8
Total Xylenes	0.50	ND	ND	ND	90	ND
TPH as Gasoline	50	ND	ND	ND	4100	250
Surrogate Recovery		128%	111%	136%	103%	132%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		02/10/94	02/10/94	02/10/94	02/10/94	02/10/94
Date Analyzed		02/15/94	02/16/94	02/16/94	02/17/94	02/16/94
RLMF		1	1	1	10	1
Filename Reference		FPF12501.D	FPF12502.D	FPF12503.D	FRF12504.D	FPF12505.D

\* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.

TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.

BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

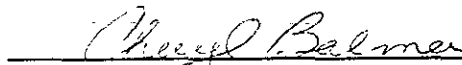
All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.



02/22/94

Analyst

Date



2/22/94

Supervisor

Date

**Organic Analysis Data Sheet**  
**Total Petroleum Hydrocarbons as Gasoline with BTEX**  
**ITS - Anamatrix Laboratories - (408)432-8192**

Lab Workorder : 9402125

Client Project ID : 204-5508-2303

Matrix : WATER

Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		S-8	S-9	S-10	S-11	DUP
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9402125-06	9402125-07	9402125-08	9402125-09	9402125-10
Benzene	0.50	11	ND	ND	53	11
Toluene	0.50	55	ND	ND	19	46
Ethylbenzene	0.50	120	ND	ND	160	100
Total Xylenes	0.50	530	ND	ND	390	440
TPH as Gasoline	50	2400	140	ND	4400	2400
Surrogate Recovery		132%	135%	134%	137%	130%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		02/10/94	02/10/94	02/10/94	02/10/94	02/10/94
Date Analyzed		02/16/94	02/15/94	02/15/94	02/16/94	02/16/94
RLMF		10	1	1	10	10
Filename Reference		FPF12506.D	FPF12507.D	FPF12508.D	FRF12509.D	FPF12510.D

\* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

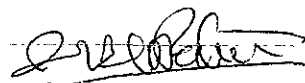
ND : Not detected at or above the reporting limit for the analysis as performed.

TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.

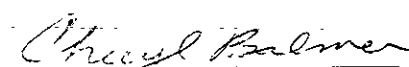
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.



02/22/94



2/22/94

Analyst

Date

Supervisor

Date

Organic Analysis Data Sheet  
 Total Petroleum Hydrocarbons as Gasoline with BTEX  
 ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9402125  
 Matrix : WATER

Client Project ID : 204-5508-2303  
 Units : ug/L


Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID	
		TB					
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID	
		9402125-11	METHOD BLANK	METHOD BLANK	METHOD BLANK		
Benzene	0.50	ND	ND	ND	ND		
Toluene	0.50	ND	ND	ND	ND		
Ethylbenzene	0.50	ND	ND	ND	ND		
Total Xylenes	0.50	ND	ND	ND	ND		
TPH as Gasoline	50	ND	ND	ND	ND		
Surrogate Recovery		120%	132%	128%	103%		
Instrument ID		HP4	HP4	HP4	HP4		
Date Sampled		02/10/94	N/A	N/A	N/A		
Date Analyzed		02/15/94	02/15/94	02/16/94	02/17/94		
RLMF		1	1	1	1		
Filename Reference		FPF12511.D	BF1501E1.D	BF1601E1.D	BF1701E1.D		

\* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.  
 TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.  
 BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.


All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.



02/22/94

Analyst

Date



2/22/94

Supervisor

Date

**Matrix Spike Report**  
**Total Petroleum Hydrocarbons as BTEX**  
**ITS - Anamatrix Laboratories - (408)432-8192**

Project ID : 204-5508-2303  
 Sample ID : S-1  
 Matrix : WATER  
 Date Sampled : 02/10/94

Laboratory ID : 9402125-01  
 Analyst : AP  
 Supervisor : CS  
 Instrument ID : HP4  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Benzene	20	ND	110%	100%	45-139	10%	30
Toluene	20	ND	120%	110%	51-138	9%	30
Ethylbenzene	20	ND	125%	110%	48-146	13%	30
Total Xylenes	20	ND	125%	115%	50-139	8%	30
Surrogate Recovery		128%	121%	119%			
Date Analyzed		02/15/94	02/15/94	02/15/94			
Multiplier		1	1	1			
Filename Reference		FPP12501.D	FMF12501.D	FD12501.D			

\* Limits established by Incape Testing Services, Anamatrix Laboratories.

**Matrix Spike Report**  
**Total Petroleum Hydrocarbons as BTEX**  
**ITS - Anametrix Laboratories - (408)432-8192**

Project ID : 204-5508-2303  
 Sample ID : S-7  
 Matrix : WATER  
 Date Sampled : 02/10/94

Laboratory ID : 9402125-05  
 Analyst : AF  
 Supervisor : CA  
 Instrument ID : HP4  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Benzene	20	ND	85%	95%	45-139	-11%	30
Toluene	20	ND	100%	115%	51-138	-14%	30
Ethylbenzene	20	1.8	116%	111%	48-146	4%	30
Total Xylenes	20	ND	117%	122%	50-139	-4%	30
Surrogate Recovery		132%	136%	118%			
Date Analyzed		02/16/94	02/16/94	02/16/94			
Multiplier		1	1	1			
Filename Reference		FPF12505.D	FMF12505.D	FDF12505.D			

\* Limits established by Inchcape Testing Services, Anametrix Laboratories.

**Laboratory Control Spike Report**  
**Total Petroleum Hydrocarbons as BTEX**  
**ITS - Anametrix Laboratories - (408)432-8192**

Instrument ID : HP4

Analyst : AP

Matrix : LIQUID

Supervisor : JB

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	110%	52-133
Toluene	20	120%	57-136
Ethylbenzene	20	120%	56-139
Total Xylenes	20	120%	56-141
Surrogate Recovery		116%	61-139
Date Analyzed		02/15/94	
Multiplier		1	
Filename Reference		MF1501E1.D	

\* Limits established by Inhcaped Testing Services, Anametrix Laboratories.



**Laboratory Control Spike Report**  
**Total Petroleum Hydrocarbons as BTEX**  
**ITS - Anamatrix Laboratories - (408)432-8192**

Instrument ID : HP4

Matrix : LIQUID

Analyst : AP

Supervisor : *CS*

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	120%	52-133
Toluene	20	125%	57-136
Ethylbenzene	20	130%	56-139
Total Xylenes	20	130%	56-141
Surrogate Recovery		110%	61-139
Date Analyzed		02/16/94	
Multiplier		1	
Filename Reference		MF1601E1.D	

\* Limits established by Incheape Testing Services, Anamatrix Laboratories.

**Laboratory Control Spike Report**  
**Total Petroleum Hydrocarbons as Gasoline**  
**ITS - Anametrix Laboratories - (408)432-8192**

Instrument ID : HP4

Analyst : *AP*

Matrix : LIQUID

Supervisor : *CS*

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	110%	56-141
Surrogate Recovery		97%	61-139
Date Analyzed		02/17/94	
Multiplier		1	
Filename Reference		MF1701E1.D	

\* Limits established by Inhcaped Testing Services, Anametrix Laboratories.