



February 9, 1996

Scott Seery  
Alameda County Department  
of Environmental Health  
Hazardous Materials Division  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: **Fourth Quarter 1995**  
Shell Service Station  
WIC #204-6852-1404  
1784 150th Avenue  
San Leandro, California  
WA Job #81-0422-205

Dear Mr. Seery:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

#### **Fourth Quarter 1995 Activities**

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells (Figures 1 and 2). The 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), prepared a ground water elevation contour map and plotted benzene concentrations in ground water (Figure 2).
- WA submitted a workplan to conduct a soil vapor survey (SVS). The SVS objective is to assess potential hydrocarbon migration pathways for a risk-based corrective action evaluation.

#### **Anticipated First Quarter 1996 Activities**

- WA will submit a report presenting the results of the first quarter 1996 ground water monitoring results. The report will include tabulated chemical analytic

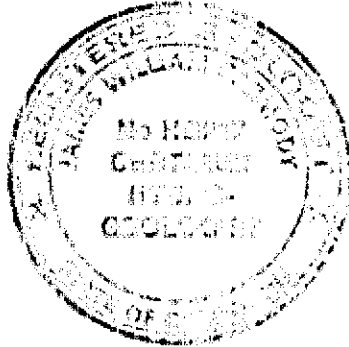
Scott Seery  
February 9, 1996

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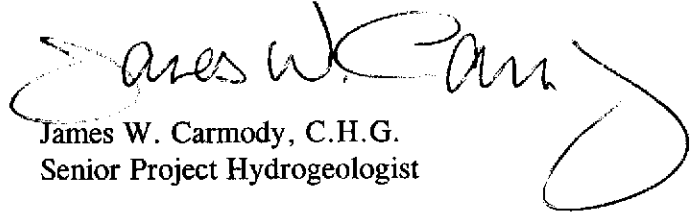
results, ground water elevations, a ground water elevation contour map with plotted benzene concentrations in ground water.

We trust that this submittal meets your needs. Please call Tom Howard at (510) 450-6118 if you have any questions or comments.

Sincerely,  
Weiss Associates



Grady Glasser  
Technical Coordinator



James W. Carmody, C.H.G.  
Senior Project Hydrogeologist

Attachments: Figures  
Tables  
A - BTS Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524  
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region,  
2101 Webster Street, Suite 500, Oakland, California 94612

GSG/JWC:all  
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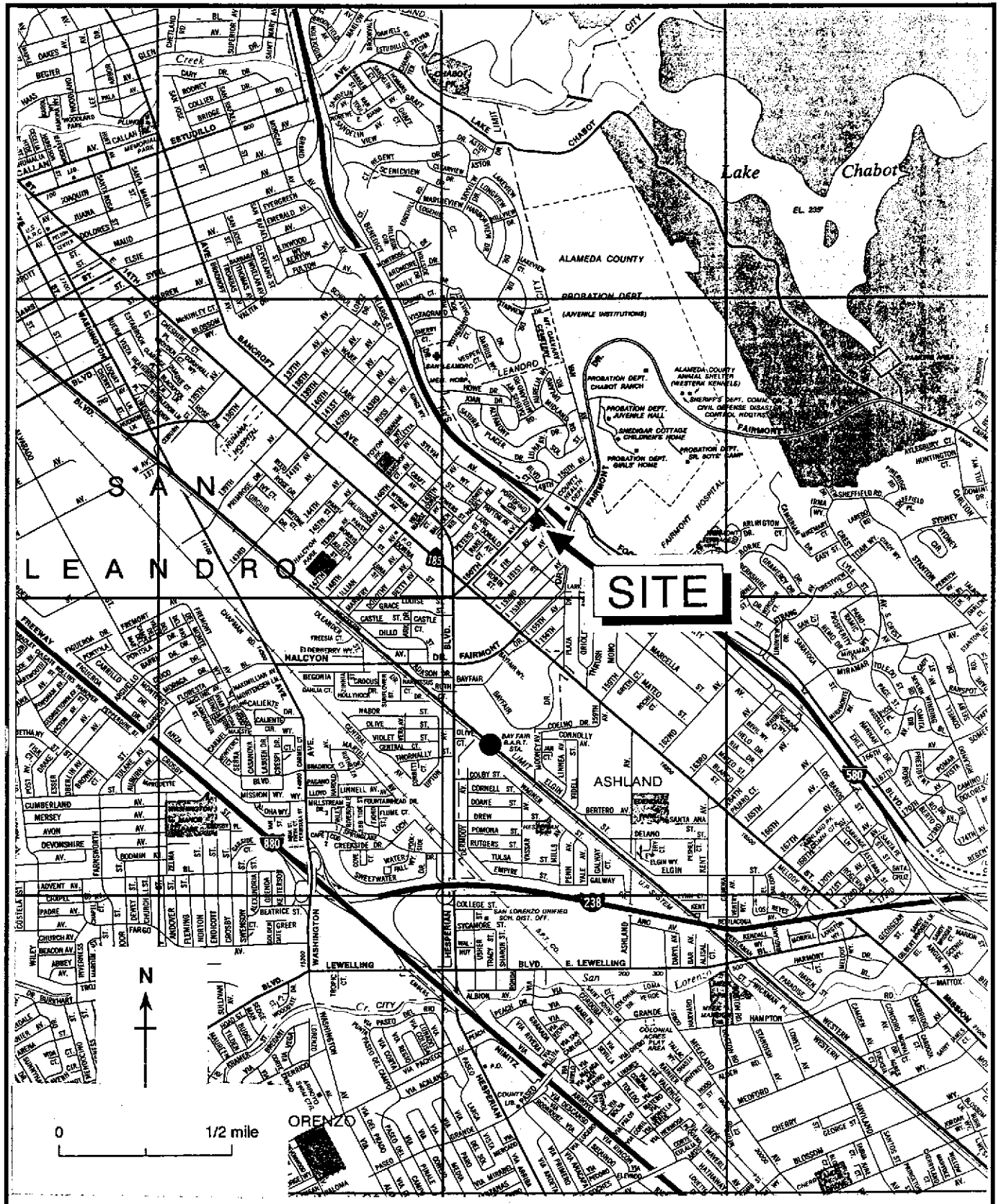


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

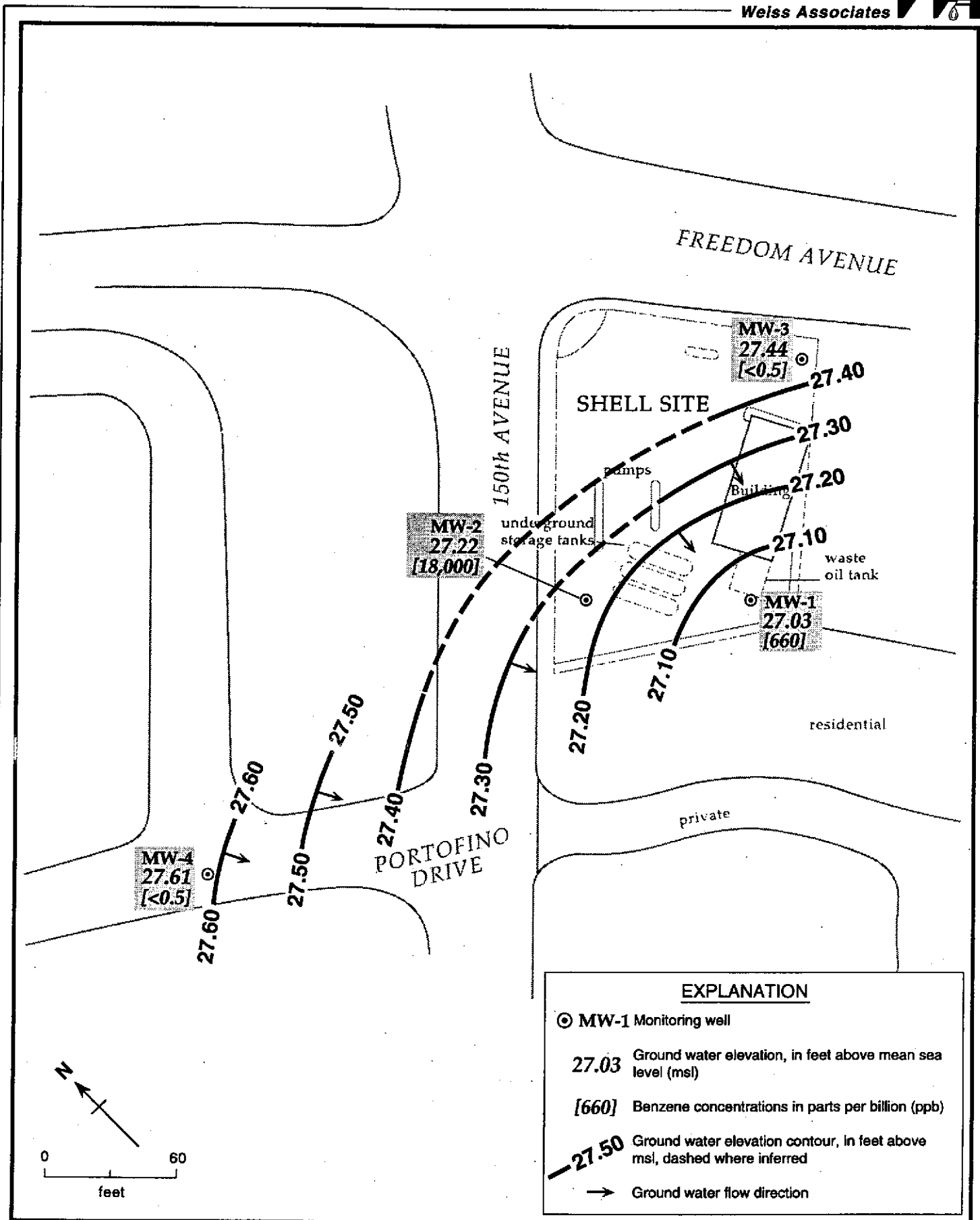


Figure 2 . Monitoring Well Locations, Ground Water Elevation Contours, Benzene and TPH-G Concentrations in Ground Water - December 19, 1995 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	03/08/90	49.13	25.29	23.84
	06/12/90		25.85	23.28
	09/13/90		27.49	21.64
	12/18/90		27.41	21.72
	03/07/91		25.79	23.34
	06/07/91		25.64	23.49
	09/17/91		27.54	21.59
	12/09/91		27.81	21.32
	02/13/92		25.57	23.56
	02/24/92		22.83	26.30
	02/27/92		23.09	26.04
	03/01/92		23.26	25.87
	06/03/92		24.64	24.49
	09/01/92		26.74	22.39
	10/06/92		27.18	21.95
	11/11/92		27.99	21.14
	12/04/92		27.14	21.99
	01/22/93		20.09	29.04
	02/10/93		24.26	24.87
	03/03/93		20.50	28.63
	05/11/93		21.70	27.43
	06/17/93		22.42	26.71
	09/10/93		24.11	25.02
	12/13/93		23.73	25.40
	03/03/94		22.08	27.05
	06/06/94		23.10	26.03
	09/12/94		25.19	23.94
	12/19/94		23.06	26.07
	02/28/95		20.90	28.23
	03/24/95		18.28	30.85
06/26/95	20.40	28.73		
09/13/95	22.62	26.51		
<b>12/19/95</b>	<b>22.10</b>	<b>27.03</b>		
MW-2	02/13/92	45.83	22.22	23.61
	02/24/92		19.61	26.22
	02/27/92		19.92	25.91
	03/01/92		21.11	24.72
	06/03/92		21.58	24.25
	09/01/92		23.46	22.37
	10/06/92		23.99	21.84
	11/11/92		24.25	21.58
12/04/92	23.89	21.94		

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	01/22/93		17.03	28.80
	02/10/93		18.08	27.75
	03/03/93		17.28	28.55
	05/11/93		18.41	27.42
	06/17/93		19.06	26.77
	09/10/93		20.88	24.95
	12/13/93		20.42	25.41
	03/03/94		18.48	27.35
	06/06/94		20.26	25.57
	09/12/94		21.80	24.03
	12/19/94		19.66	26.17
	02/28/95		17.51	28.32
	03/24/95		14.88	30.95
	06/26/95		17.58	28.25
	09/13/95		19.28	26.55
	<b>12/19/95</b>		<b>18.61</b>	<b>27.22</b>
MW-3	02/13/92	51.97	27.97	24.00
	02/24/92		25.60	26.37
	02/27/92		25.88	26.09
	03/01/92		26.00	25.97
	06/03/92		27.70	24.27
	09/01/92		29.46	22.51
	10/06/92		30.01	21.96
	11/11/92		30.26	21.71
	12/04/92		29.93	22.04
	01/22/93		22.76	29.21
	02/10/93		21.40	30.57
	03/03/93		23.08	28.89
	05/11/93		24.51	27.46
	06/17/93		25.21	26.76
	09/10/93		26.95	25.02
	12/13/93		26.52	25.45
	03/03/94		24.50	27.47
	06/06/94		26.33	25.64
	09/12/94		27.98	23.99
	12/19/94		25.63	26.34
	02/28/95		23.45	28.52
	03/24/95		21.07	30.90
	06/26/95		23.64	28.33
	09/13/95		25.40	26.57
	<b>12/19/95</b>		<b>24.53</b>	<b>27.44</b>

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-4	03/24/95	40.51	9.16	31.35
	06/26/95		12.06	28.45
	09/13/95		13.90	26.61
	12/19/95		12.90	27.61

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
MW-1	03/08/90	25.29	510	120 <sup>a</sup>	<10,000	1.5	<0.5	0.8	5.4	12
	06/12/90	25.85	390	100 <sup>a</sup>	<10,000	86	0.7	1.3	6.2	<0.4
	09/13/90	27.49	100	130 <sup>a</sup>	<10,000	56	2.4	0.75	2.8	<0.4 <sup>b</sup>
	12/18/90	27.41	480	<50 <sup>a</sup>	<10,000	54	3.3	1.7	3.7	5.3
	03/07/91	25.79	80	<50 <sup>a</sup>	---	266	1.2	<0.5	<1.5	6.7
	06/07/91	25.64	510	<50 <sup>a</sup>	---	130	6.1	3.8	11	7.9
	09/17/91	27.54	330	120 <sup>ac</sup>	---	67	3	<0.5	2.2	6
	12/09/91	27.81	140 <sup>d</sup>	80	---	<0.5	1.7	<0.5	4.7	5.4
	03/01/92	23.36	<50	<50	---	<0.5	<0.5	<0.5	<0.5	3
	06/03/92	24.64	1,500	---	---	520	72	180	230	3
	09/01/92	26.74	130	---	---	16	1.8	1.4	3.4	1.3 <sup>c</sup>
	12/04/92	27.14	150	---	---	360	1.8	0.7	2.1	3.3
	03/03/93	20.50	<50	---	---	1.5	<0.5	<0.5	<0.5	0.76
	06/17/93	22.42	1,600	---	---	340	120	120	440	3
	09/10/93	24.11	2,600	---	---	670	310	340	730	2.3
	12/13/93	23.73	11,000	---	---	470	380	320	2,300	6.3
	03/03/94	22.08	16,000	---	---	700	480	690	3,200	---
	06/06/94	23.10	7,500	---	---	420	200	280	1,000	3.1
	09/12/94	25.19	1,200	---	---	110	3.3	21	420	2.6
	12/19/94	23.06	4,600	---	---	470	230	330	1,300	3.7
	02/28/95	20.90	500	---	---	59	6.8	32	68	5.0
	06/26/95	20.40	5,500	---	---	740	300	420	1,800	8.6
	09/13/95	22.62	84,000	---	---	1,900	3,000	2,600	14,000	12
12/19/95	22.10	80,000	---	---	660	170	350	18,000	<0.4	
MW-2	02/24/92	19.61	17,000	2,700 <sup>c</sup>	---	6,200	550	1,600	1,900	200
	03/01/92	21.11	86,000	1,000 <sup>c</sup>	---	30,000	2,300	34,000	16,000	82
	06/03/92	21.58	87,000	---	---	28,000	2,000	18,000	10,000	<50
	09/01/92	23.46	110,000	---	---	21,000	1,900	13,000	7,800	83 <sup>b</sup>
	12/04/92	23.89	42,000	---	---	15,000	960	2,400	2,900	100



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	03/03/93	17.28	160,000	---	---	36,000	32,000	3,800	21,000	7.7
	03/03/93 <sup>h</sup>	17.28	150,000	---	---	31,000	20,000	3,100	14,000	16
	06/17/93	19.06	65,000	---	---	34,000	3,200	15,000	11,000	37
	06/17/93 <sup>h</sup>	19.06	62,000	---	---	28,000	2,700	14,000	10,000	36
	09/10/93 <sup>f</sup>	20.88	72,000	---	---	24,000	2,300	16,000	11,000	28.0
	09/10/93 <sup>dupf</sup>	20.88	71,000	---	---	23,000	2,300	15,000	10,000	27.0
	12/13/93	20.42	19,000	---	---	5,400	680	4,900	3,100	<0.5
	12/13/93 <sup>dup</sup>		17,000	---	---	6,200	720	5,500	3,500	3.4
	03/03/94	18.48	110,000	---	---	21,000	2000	24,000	13,000	---
	03/03/94 <sup>dup</sup>	18.48	93,000	---	---	19,000	1,800	22,000	12,000	---
	06/06/94	20.26	10,000	---	---	1,900	2,500	3,300	13,000	5.8
	06/06/94 <sup>dup</sup>	20.26	99,000	---	---	9,900	2,400	12,000	12,000	5.7
	09/12/94	21.80	160,000	---	---	22,000	3,400	33,000	23,000	<0.4
	09/12/94 <sup>dup</sup>	21.80	150,000	---	---	23,000	3,500	34,000	23,000	<0.4
	12/19/94	19.66	80,000	---	---	17,000	2,300	16,000	14,000	<0.4
	12/19/94 <sup>dup</sup>	19.66	100,000	---	---	28,000	3,400	26,000	20,000	<0.4
	02/28/95	17.51	100,000	---	---	24,000	2,300	18,000	17,000	<0.4
	02/28/95 <sup>dup</sup>	17.51	100,000	---	---	31,000	3,200	21,000	18,000	<0.4
	06/26/95	17.58	45,000	---	---	14,000	1,500	12,000	7,500	3.4
	06/26/95 <sup>dup</sup>	17.58	68,000	---	---	13,000	1,800	11,000	7,700	---
	09/13/95	19.28	110,000	---	---	19,000	2,800	19,000	15,000	7.2
	09/13/95 <sup>dup</sup>	19.28	120,000	---	---	20,000	2,900	20,000	15,000	<0.4
	12/19/95	18.61	180,000	---	---	18,000	4,100	29,000	24,000	<0.4
	12/19/95 <sup>dup</sup>	18.61	160,000	---	---	18,000	3,800	28,000	24,000	<0.4
MW-3	02/24/92	25.60	4,500	1,300 <sup>c</sup>	---	97	78	<5	18	9.1
	03/01/92	26.00	2,200	440	---	69	<0.5	<0.5	<0.5	13
	06/03/92	27.70	4,100	---	---	13	44	72	65	16
	09/01/92	29.46	1,900	---	---	20	5.5	6.8	<5	19
	09/01/92 <sup>dup</sup>	29.46	1,900	---	---	21	3.4	6.6	<5	21

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	12/04/92	29.93	2,400	---	---	8.2	<5	<5	<5	16
	12/04/92 <sup>dup</sup>	29.93	2,100	---	---	11	5.7	<0.5	<0.5	18
	03/03/93	23.08	5,100	---	---	63	75	61	150	3.3
	06/17/93	25.21	4,000	---	---	94	82	140	150	23
	09/10/93	26.95	3,200	---	---	140	12.5	12.5	12.5	20.0
	12/13/93	26.52	6,200	---	---	<12.5	<12.5	<12.5	<12.5	13
	03/03/94	24.50	4,500	---	---	73	<5	<5	<5	---
	06/06/94	26.33	3,200	---	---	<0.5	3.1	<0.5	<0.5	16
	09/12/94	27.98	3,900	---	---	<0.5	9.6	<0.5	4.1	7.8
	12/19/94	25.63	2,400	---	---	21	4.2	22	2.6	25
	02/28/95	23.45	4,000	---	---	58	7.1	<0.5	3.5	18
	06/26/95	23.64	3,900	---	---	8.1	12	<0.5	2.4	15
	09/13/95	25.40	4,100	---	---	58	5.5	5.5	<0.5	6.7
	12/19/95	24.53	3,600	---	---	<0.5	2.1	4.3	1.1	6.6
MW-4	03/24/95	9.16	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	06/26/95	12.06	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	09/13/95	13.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	12/19/95	12.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
Trip	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	06/12/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/18/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	03/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/24/92		<50	---	---	<0.5	0.6	2.5	2.2	---
	03/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/03/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	09/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	12/04/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 <sup>j</sup>
	03/03/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	09/10/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/13/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 <sup>k</sup>
	03/03/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/06/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/12/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/19/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/28/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	03/24/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/26/95		<50	---	---	4.1	<0.5	3.0	1.5	---
	09/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/19/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Bailer	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	09/01/92		<50	---	---	<0.5	<0.5	0.7	<0.5	<0.5
	12/04/92		60	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 <sup>j</sup>
DTSC MCLs			NE	NE	NE	1	680	100 <sup>l</sup>	1,750	5.0

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

**Abbreviations:**

- TPH-G = Total Petroleum Hydrocarbons as Gasoline by Modified EPA Method 8015
- TPH-D = Total Petroleum Hydrocarbons as Diesel by Modified EPA Method 8015
- POG = Petroleum oil and grease by American Public Health Association Standard Method 503E or 5520F
- B = Benzene by EPA Method 8020
- E = Ethylbenzene by EPA Method 8020
- T = Toluene by EPA Method 8020
- X = Xylenes by EPA Method 8020
- 1,2-DCA = 1,2-Dichloroethane by EPA Method 601
- = Not analyzed
- <n = Not detected above method detection limit of n ppb
- DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
- NE = Not established

**Notes:**

- a = No total petroleum hydrocarbons as motor oil detected above modified EPA Method 8015 detection limit of 500 ppb
- b = Tetrachloroethene (PCE) detected at 24 ppb by EPA Method 601; DTSC MCL for PCE = 5 ppb
- c = Result is due to hydrocarbon compounds lighter than diesel
- d = Result due to a non-gasoline hydrocarbon
- e = In the matrix spike/matrix spike duplicate of sample MW-1, the RPD for Freon 113 and 1,3-dichlorobenzene was greater than 25%
- f = The MW-2 and Dup samples each contained 1.6 ppb of methylene chloride which is within normal laboratory background levels.
- h = Sample MW-2 was diluted 1:100 for EPA Method 8010 due to the interfering hydrocarbon peaks
- j = The trip and field blank samples contained 14 and 10 mg/L 1,3-dichlorobenzene, respectively
- k = 1.4 mg/L Chloroethene detected in equipment blank, trip blank not analyzed
- l = DTSC recommended action level for drinking water; MCL not established

**ATTACHMENT A**

**BTS GROUND WATER MONITORING REPORT**



# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
(408) 995-5535  
FAX (408) 293-8773

January 9, 1996

Shell Oil Company  
P.O. Box 4023  
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-6852-1404  
1784 150th Avenue  
San Leandro, California

4th Quarter 1995


Quarterly Groundwater Monitoring Report 951219-T-1

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Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data  
Chain of Custody  
Field Data Sheets  
Certified Analytical Report

cc: Weiss Associates  
5500 Shellmound Street  
Emeryville, CA 95608-2411  
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

## 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)
MW-1	12/19/95	TOC	SHEEN/ODOR	-	-	-	22.10	44.71
MW-2 *	12/19/95	TOC	SHEEN/ODOR	-	-	-	18.61	44.10
MW-3	12/19/95	TOC	-	NONE	-	-	24.53	41.66
MW-4	12/19/95	TOC	SHEEN ?	-	-	-	12.90	25.04

\* Sample DUP was a duplicate sample taken from well MW-2.



**SHELL OIL COMPANY**  
RETAIL ENVIRONMENTAL ENGINEERING - WEST

**CHAIN OF CUSTODY RECORD**

Serial No: 95219-T

Date: \_\_\_\_\_

Page ( of ) \_\_\_\_\_

#9650

Site Address: 1784 150th Avenue, San Leandro

WIC#: 204-6852-1404

Shell Engineer: R. Jeff Granbery  
~~Don Kirk~~ Phone No.: (510) 675-6188  
Fax #: 675-6160

Consultant Name & Address:  
Blaine Tech Services, Inc.  
985 Timothy Dr., San Jose, CA 95133

Consultant Contact: Jim Keller Phone No.: (408) 995-5535  
Fax #: 293-8773

Comments:

Sampled by: Mike Toll

Printed Name: Mike Toll

**Analysis Required**

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 644		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 641		48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/> 642		16 days <input checked="" type="checkbox"/> (Harmful)
Water Classify/Disposal <input type="checkbox"/> 643		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 642		
Water Rem. or Sys. O & M <input type="checkbox"/> 643		
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hr. TAT.

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	8010	Asbestos	Container Size	Preparation Used	Composite Y/N											
											MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS									
											MW1	X	12/19				X	X			
											MW2	X	12/19				X	X			
											MW3	X	12/19				X	X			
											MW4	X	12/19				X	X			
											EB	-	12/19				X				
											DUP	X	12/19				X	X			
											TB	-	12/19				X	X			

Relinquished By (signature): <u>Mike Toll</u>	Printed Name: <u>Mike Toll</u>	Date: <u>12/20/95</u>	Time: <u>11:00</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>R. Smart</u>	Date: <u>12/20/95</u>	Time: <u>11:00</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>R. Smart</u>	Date: <u>12/20/95</u>	Time: <u>14:57</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>12/20/95</u>	Time: <u>14:30</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>12/20/95</u>	Time: <u>16:30</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAUL TROSSER</u>	Date: <u>12/20/95</u>	Time: <u>16:30</u>

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS





NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
3636 North Laughlin Road  
Suite 110  
Santa Rosa, CA 95403-8226  
Tel: (707) 526-7200  
Fax: (707) 541-2333

Jim Keller  
Blaine Tech Services  
985 Timothy Dr.  
San Jose, CA 95133

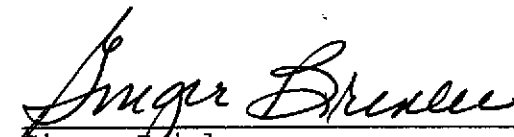
Date: 01/04/1996  
NET Client Acct. No: 1821  
NET Job No: 95.04813  
Received: 12/20/1995

Client Reference Information

Shell 1784 150th Ave., San Leandro, CA/951219-T1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

  
\_\_\_\_\_  
Ginger Brinlee

Project Coordinator

Enclosure (s)





Client Name: Blaine Tech Services  
Client Acct: 1921  
NET Job No: 95.04813

Date: 01/04/1996  
ELAP Cert: 1386  
Page: 2

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW1

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257571

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						12/29/1995	3439
Purgeable TPH	80,000		5,000	ug/L	5030/M8015		12/29/1995	3439
Carbon Range: C6 to C12	--						12/29/1995	3438
METHOD 8020 (GC, Liquid)	--						12/29/1995	3438
Benzene	660		50	ug/L	8020		12/29/1995	3439
Toluene	350		50	ug/L	8020		12/29/1995	3439
Ethylbenzene	170		50	ug/L	8020		12/29/1995	3439
Xylenes (Total)	18000	FI	500	ug/L	8020		12/29/1995	3438
SURROGATE RESULTS	--						12/29/1995	3438
Bromofluorobenzene (SURR)	97			* Rec.	8020		12/29/1995	3438

FI : Compound quantitated at a 1000X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04813

Date: 01/04/1996  
ELAP Cert: 1386  
Page: 3

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW1

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257571

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	250	MI					12/28/1995	936
Bromodichloromethane	ND		0.4	ug/L	8010		12/28/1995	936
Bromoform	ND		0.4	ug/L	8010		12/28/1995	936
Bromomethane	ND		0.4	ug/L	8010		12/28/1995	936
Carbon tetrachloride	ND		0.4	ug/L	8010		12/28/1995	936
Chlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
Chloroethane	ND		0.4	ug/L	8010		12/28/1995	936
2-Chloroethylvinyl ether	ND		1	ug/L	8010		12/28/1995	936
Chloroform	ND		0.4	ug/L	8010		12/28/1995	936
Chloromethane	ND		0.4	ug/L	8010		12/28/1995	936
Dibromochloromethane	ND		0.4	ug/L	8010		12/28/1995	936
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
Dichlorodifluoromethane	ND		0.4	ug/L	8010		12/28/1995	936
1,1-Dichloroethane	ND		0.4	ug/L	8010		12/28/1995	936
1,2-Dichloroethane	ND		0.4	ug/L	8010		12/28/1995	936
1,1-Dichloroethene	ND		0.4	ug/L	8010		12/28/1995	936
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		12/28/1995	936
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		12/28/1995	936
1,2-Dichloropropane	ND		0.4	ug/L	8010		12/28/1995	936
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/28/1995	936
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/28/1995	936
Methylene chloride	ND		10	ug/L	8010		12/28/1995	936
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		12/28/1995	936
Tetrachloroethene	ND		0.4	ug/L	8010		12/28/1995	936
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		12/28/1995	936
1,1,2-Trichloroethane	ND		1	ug/L	8010		12/28/1995	936
Trichloroethene	ND		0.4	ug/L	8010		12/28/1995	936
Trichlorofluoromethane	ND		0.4	ug/L	8010		12/28/1995	936
Vinyl chloride	ND		0.4	ug/L	8010		12/28/1995	936
SURROGATE RESULTS	--							
1,4-Difluorobenzene (SURR)	99				% Rec.		12/28/1995	936
1,4-Dichlorobutane (SURR)	86				% Rec.		12/28/1995	936
Bromochloromethane (SURR)	NA				% Rec.		12/28/1995	936

MI : Matrix Interference Suspected.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

Date: 01/04/1996

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 95.04813

Page: 4

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW2

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257572

Parameter	Results	Reporting			Method	Date	Date	Run Batch No.
		Flags	Limit	Units		Extracted	Analyzed	
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						12/29/1995	3438
Purgeable TPH	180,000		5,000	ug/L	5030/M8015		12/29/1995	3438
Carbon Range: C6 to C12	--						12/29/1995	3438
METHOD 8020 (GC, Liquid)	--						12/29/1995	3438
Benzene	18,000	FI	500	ug/L	8020		12/29/1995	3439
Toluene	29,000	FI	500	ug/L	8020		12/29/1995	3439
Ethylbenzene	4100		50	ug/L	8020		12/29/1995	3438
Xylenes (Total)	24,000	FI	500	ug/L	8020		12/29/1995	3439
SURROGATE RESULTS	--						12/29/1995	3438
Bromofluorobenzene (SURRE)	104			% Rec.	8020		12/29/1995	3438

FI : Compound quantitated at a 1000X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04813

Date: 01/04/1996  
ELAP Cert: 1386  
Page: 5

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW2

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257572

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1,000	MI					12/28/1995	936
Bromodichloromethane	ND		400	ug/L	8010		12/28/1995	936
Bromoform	ND		400	ug/L	8010		12/28/1995	936
Bromomethane	ND		400	ug/L	8010		12/28/1995	936
Carbon tetrachloride	ND		400	ug/L	8010		12/28/1995	936
Chlorobenzene	ND		400	ug/L	8010		12/28/1995	936
Chloroethane	ND		400	ug/L	8010		12/28/1995	936
2-Chloroethylvinyl ether	ND		1,000	ug/L	8010		12/28/1995	936
Chloroform	ND		400	ug/L	8010		12/28/1995	936
Chloromethane	ND		400	ug/L	8010		12/28/1995	936
Dibromochloromethane	ND		400	ug/L	8010		12/28/1995	936
1,2-Dichlorobenzene	ND		400	ug/L	8010		12/28/1995	936
1,3-Dichlorobenzene	ND		400	ug/L	8010		12/28/1995	936
1,4-Dichlorobenzene	ND		400	ug/L	8010		12/28/1995	936
Dichlorodifluoromethane	ND		400	ug/L	8010		12/28/1995	936
1,1-Dichloroethane	ND		400	ug/L	8010		12/28/1995	936
1,2-Dichloroethane	ND		400	ug/L	8010		12/28/1995	936
1,1-Dichloroethene	ND		400	ug/L	8010		12/28/1995	936
cis-1,2-Dichloroethene	ND		500	ug/L	8010		12/28/1995	936
trans-1,2-Dichloroethene	ND		400	ug/L	8010		12/28/1995	936
1,2-Dichloropropane	ND		400	ug/L	8010		12/28/1995	936
cis-1,3-Dichloropropene	ND		400	ug/L	8010		12/28/1995	936
trans-1,3-Dichloropropene	ND		400	ug/L	8010		12/28/1995	936
Methylene chloride	ND		10,000	ug/L	8010		12/28/1995	936
1,1,2,2-Tetrachloroethane	ND		400	ug/L	8010		12/28/1995	936
Tetrachloroethene	ND		400	ug/L	8010		12/28/1995	936
1,1,1-Trichloroethane	ND		400	ug/L	8010		12/28/1995	936
1,1,2-Trichloroethane	ND		1,000	ug/L	8010		12/28/1995	936
Trichloroethene	ND		400	ug/L	8010		12/28/1995	936
Trichlorofluoromethane	ND		400	ug/L	8010		12/28/1995	936
Vinyl chloride	ND		400	ug/L	8010		12/28/1995	936
SURROGATE RESULTS	--						12/28/1995	936
1,4-Difluorobenzene (SURR)	100				‡ Rec.		12/28/1995	936
1,4-Dichlorobutane (SURR)	87				‡ Rec.		12/28/1995	936
Bromochloromethane (SURR)	NA				‡ Rec.		12/28/1995	936

MI : Matrix Interference Suspected.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
 Client Acct: 1821  
 NET Job No: 95.04813

Date: 01/04/1996  
 ELAP Cert: 1386  
 Page: 6

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW3  
 Date Taken: 12/19/1995  
 Time Taken:  
 NET Sample No: 257573

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/29/1995	3438
Purgeable TPH	3,600		50	ug/L	5030/M8015		12/29/1995	3438
Carbon Range: C6 to C12	--						12/29/1995	3438
METHOD 8020 (GC, Liquid)	--						12/29/1995	3438
Benzene	ND		0.5	ug/L	8020		12/29/1995	3438
Toluene	4.3		0.5	ug/L	8020		12/29/1995	3438
Ethylbenzene	2.1		0.5	ug/L	8020		12/29/1995	3438
Xylenes (Total)	1.1		0.5	ug/L	8020		12/29/1995	3438
SURROGATE RESULTS	--						12/29/1995	3438
Bromofluorobenzene (SURR)	109			% Rec.	8020		12/29/1995	3438

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04813

Date: 01/04/1996  
ELAP Cert: 1386  
Page: 7

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW3

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257573

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						12/28/1995	936
Bromodichloromethane	ND		0.4	ug/L	8010		12/28/1995	936
Bromoform	ND		0.4	ug/L	8010		12/28/1995	936
Bromomethane	ND		0.4	ug/L	8010		12/28/1995	936
Carbon tetrachloride	ND		0.4	ug/L	8010		12/28/1995	936
Chlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
Chloroethane	ND		0.4	ug/L	8010		12/28/1995	936
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		12/28/1995	936
Chloroform	ND		0.4	ug/L	8010		12/28/1995	936
Chloromethane	ND		0.4	ug/L	8010		12/28/1995	936
Dibromochloromethane	ND		0.4	ug/L	8010		12/28/1995	936
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		12/28/1995	936
Dichlorodifluoromethane	ND		0.4	ug/L	8010		12/28/1995	936
1,1-Dichloroethane	ND		0.4	ug/L	8010		12/28/1995	936
1,2-Dichloroethane	6.6		0.4	ug/L	8010		12/28/1995	936
1,1-Dichloroethene	ND		0.4	ug/L	8010		12/28/1995	936
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		12/28/1995	936
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		12/28/1995	936
1,2-Dichloropropane	ND		0.4	ug/L	8010		12/28/1995	936
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/28/1995	936
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/28/1995	936
Methylene chloride	ND		10	ug/L	8010		12/28/1995	936
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		12/28/1995	936
Tetrachloroethene	ND		0.4	ug/L	8010		12/28/1995	936
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		12/28/1995	936
1,1,2-Trichloroethane	ND		1	ug/L	8010		12/28/1995	936
Trichloroethene	ND		0.4	ug/L	8010		12/28/1995	936
Trichlorofluoromethane	ND		0.4	ug/L	8010		12/28/1995	936
Vinyl chloride	ND		0.4	ug/L	8010		12/28/1995	936
SURROGATE RESULTS	--						12/28/1995	936
1,4-Difluorobenzene (SURR)	119			% Rec.			12/28/1995	936
1,4-Dichlorobutane (SURR)	80			% Rec.			12/28/1995	936
Bromochloromethane (SURR)	NA			% Rec.			12/28/1995	936

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04813

Date: 01/04/1996  
ELAP Cert: 1386  
Page: 8

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW4

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257574

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/29/1995	3438
Purgeable TPH	ND		50	ug/L	5030/M8015		12/29/1995	3438
Carbon Range: C6 to C12	--						12/29/1995	3438
METHOD 8020 (GC, Liquid)	--						12/29/1995	3438
Benzene	ND		0.5	ug/L	8020		12/29/1995	3438
Toluene	ND		0.5	ug/L	8020		12/29/1995	3438
Ethylbenzene	ND		0.5	ug/L	8020		12/29/1995	3438
Xylenes (Total)	ND		0.5	ug/L	8020		12/29/1995	3438
SURROGATE RESULTS	--						12/29/1995	3438
Bromofluorobenzene (SURR)	92			% Rec.	8020		12/29/1995	3438

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.





Client Name: Elaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04813

Date: 01/04/1996  
ELAP Cert: 1386  
Page: 9

Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: MW4

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257574

Parameter	Results	Flags	Reporting			Date Extracted	Date Analyzed	Run Batch No.
			Limit	Units	Method			
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						12/21/1995	935
Bromodichloromethane	ND		0.4	ug/L	8010		12/21/1995	935
Bromoform	ND		0.4	ug/L	8010		12/21/1995	935
Bromomethane	ND		0.4	ug/L	8010		12/21/1995	935
Carbon tetrachloride	ND		0.4	ug/L	8010		12/21/1995	935
Chlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
Chloroethane	ND		0.4	ug/L	8010		12/21/1995	935
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		12/21/1995	935
Chloroform	ND		0.4	ug/L	8010		12/21/1995	935
Chloromethane	ND		0.4	ug/L	8010		12/21/1995	935
Dibromochloromethane	ND		0.4	ug/L	8010		12/21/1995	935
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
Dichlorodifluoromethane	ND		0.4	ug/L	8010		12/21/1995	935
1,1-Dichloroethane	ND		0.4	ug/L	8010		12/21/1995	935
1,2-Dichloroethane	ND		0.4	ug/L	8010		12/21/1995	935
1,1-Dichloroethene	ND		0.4	ug/L	8010		12/21/1995	935
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		12/21/1995	935
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		12/21/1995	935
1,2-Dichloropropane	ND		0.4	ug/L	8010		12/21/1995	935
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/21/1995	935
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/21/1995	935
Methylene chloride	ND		10	ug/L	8010		12/21/1995	935
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		12/21/1995	935
Tetrachloroethene	0.8	C	0.4	ug/L	8010		12/21/1995	935
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		12/21/1995	935
1,1,2-Trichloroethane	ND		1	ug/L	8010		12/21/1995	935
Trichloroethene	0.8	C	0.4	ug/L	8010		12/21/1995	935
Trichlorofluoromethane	ND		0.4	ug/L	8010		12/21/1995	935
Vinyl chloride	ND		0.4	ug/L	8010		12/21/1995	935
SURROGATE RESULTS	--						12/21/1995	935
1,4-Difluorobenzene (SURR)	N/A			% Rec.			12/21/1995	935
1,4-Dichlorobutane (SURR)	107			% Rec.			12/21/1995	935
Bromochloromethane (SURR)	N/A			% Rec.			12/21/1995	935

C : Positive result confirmed by secondary column or GC/MS analysis.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: EB  
Date Taken: 12/19/1995  
Time Taken:  
NET Sample No: 257575

Parameter	Results	Flags	Reporting			Method	Date	Date	Run
			Limit	Units	Extracted		Analyzed	Batch	
								No.	
METHOD 5030/8015-M (Shell)									
DILUTION FACTOR*	1						12/29/1995	3438	
Purgeable TPH	ND		50	ug/L	5030/M8015		12/29/1995	3438	
Carbon Range: C6 to C12	--						12/29/1995	3438	
METHOD 8020 (GC, Liquid)	--						12/29/1995	3438	
Benzene	ND		0.5	ug/L	8020		12/29/1995	3438	
Toluene	ND		0.5	ug/L	8020		12/29/1995	3438	
Ethylbenzene	ND		0.5	ug/L	8020		12/29/1995	3438	
Xylenes (Total)	ND		0.5	ug/L	8020		12/29/1995	3438	
SURROGATE RESULTS	--						12/29/1995	3438	
Bromofluorobenzene (SURRE)	95			% Rec.	8020		12/29/1995	3438	

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: DUP

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257576

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1,000						12/29/1995	3439
Purgeable TPH	160,000		50,000	ug/L	5030/M8015		12/29/1995	3439
Carbon Range: C6 to C12	--						12/29/1995	3439
METHOD 8020 (GC, Liquid)	--						12/29/1995	3439
Benzene	18,000		500	ug/L	8020		12/29/1995	3439
Toluene	28,000		500	ug/L	8020		12/29/1995	3439
Ethylbenzene	3,800		500	ug/L	8020		12/29/1995	3439
Xylenes (Total)	24,000		500	ug/L	8020		12/29/1995	3439
SURROGATE RESULTS	--						12/29/1995	3439
Bromofluorobenzene (SURR)	90			% Rec.	8020		12/29/1995	3439

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

SAMPLE DESCRIPTION: DUP

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257576

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						12/21/1995	935
Bromodichloromethane	ND		0.4	ug/L	8010		12/21/1995	935
Bromoform	ND		0.4	ug/L	8010		12/21/1995	935
Bromomethane	ND		0.4	ug/L	8010		12/21/1995	935
Carbon tetrachloride	ND		0.4	ug/L	8010		12/21/1995	935
Chlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
Chloroethane	ND		0.4	ug/L	8010		12/21/1995	935
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		12/21/1995	935
Chloroform	ND		0.4	ug/L	8010		12/21/1995	935
Chloromethane	ND		0.4	ug/L	8010		12/21/1995	935
Dibromochloromethane	ND		0.4	ug/L	8010		12/21/1995	935
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		12/21/1995	935
Dichlorodifluoromethane	ND		0.4	ug/L	8010		12/21/1995	935
1,1-Dichloroethane	ND		0.4	ug/L	8010		12/21/1995	935
1,2-Dichloroethane	ND		0.4	ug/L	8010		12/21/1995	935
1,1-Dichloroethene	ND		0.4	ug/L	8010		12/21/1995	935
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		12/21/1995	935
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		12/21/1995	935
1,2-Dichloropropane	ND		0.4	ug/L	8010		12/21/1995	935
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/21/1995	935
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		12/21/1995	935
Methylene chloride	ND		10	ug/L	8010		12/21/1995	935
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		12/21/1995	935
Tetrachloroethene	ND		0.4	ug/L	8010		12/21/1995	935
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		12/21/1995	935
1,1,2-Trichloroethane	ND		1	ug/L	8010		12/21/1995	935
Trichloroethene	ND		0.4	ug/L	8010		12/21/1995	935
Trichlorofluoromethane	ND		0.4	ug/L	8010		12/21/1995	935
Vinyl chloride	ND		0.4	ug/L	8010		12/21/1995	935
SURROGATE RESULTS	--						12/21/1995	935
1,4-Difluorobenzene (SURR)	N/A				% Rec.		12/21/1995	935
1,4-Dichlorobutane (SURR)	110				% Rec.		12/21/1995	935
Bromochloromethane (SURR)	N/A				% Rec.		12/21/1995	935

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: TB

Date Taken: 12/19/1995

Time Taken:

NET Sample No: 257577

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
<hr/>								
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						01/02/1996	3440
Purgeable TPH	ND		50	ug/L	5030/M8015		01/02/1996	3440
Carbon Range: C6 to C12	--						01/02/1996	3440
METHOD 8020 (GC, Liquid)	--						01/02/1996	3440
Benzene	ND		0.5	ug/L	8020		01/02/1996	3440
Toluene	ND		0.5	ug/L	8020		01/02/1996	3440
Ethylbenzene	ND		0.5	ug/L	8020		01/02/1996	3440
Xylenes (Total)	ND		0.5	ug/L	8020		01/02/1996	3440
SURROGATE RESULTS	--						01/02/1996	3440
Bromofluorobenzene (SURR)	103			% Rec.	8020		01/02/1996	3440

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard	Standard Amount	Standard Amount				
	% Recovery	Found	Expected				
METHOD 5030/8015-M (Shell)							
Purgeable TPH	108.0	0.54	0.50	mg/L	12/29/1995	aal	3438
Benzene	99.6	4.98	5.00	ug/L	12/29/1995	aal	3438
Toluene	99.8	4.99	5.00	ug/L	12/29/1995	aal	3438
Ethylbenzene	102.6	5.13	5.00	ug/L	12/29/1995	aal	3438
Xylenes (Total)	105.3	15.8	15.0	ug/L	12/29/1995	aal	3438
Bromofluorobenzene (SURR)	101.0	101	100	% Rec.	12/29/1995	aal	3438
METHOD 5030/8015-M (Shell)							
Purgeable TPH	108.0	0.54	0.50	mg/L	12/29/1995	dld	3439
Benzene	98.2	4.91	5.00	ug/L	12/29/1995	dld	3439
Toluene	97.0	4.85	5.00	ug/L	12/29/1995	dld	3439
Ethylbenzene	94.4	4.72	5.00	ug/L	12/29/1995	dld	3439
Xylenes (Total)	97.3	14.6	15.0	ug/L	12/29/1995	dld	3439
Bromofluorobenzene (SURR)	91.0	91	100	% Rec.	12/29/1995	dld	3439
METHOD 5030/8015-M (Shell)							
Purgeable TPH	100.0	0.50	0.50	mg/L	01/02/1996	aal	3440
Benzene	100.6	5.03	5.00	ug/L	01/02/1996	aal	3440
Toluene	96.6	4.83	5.00	ug/L	01/02/1996	aal	3440
Ethylbenzene	97.4	4.87	5.00	ug/L	01/02/1996	aal	3440
Xylenes (Total)	99.3	14.9	15.0	ug/L	01/02/1996	aal	3440
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	01/02/1996	aal	3440

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard	Standard	Standard				
	% Recovery	Amount Found	Amount Expected				
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	102.0	20.4	20.0	ug/L	12/21/1995	klh	935
Bromoform	98.5	19.7	20.0	ug/L	12/21/1995	klh	935
Bromomethane	101.0	20.2	20.0	ug/L	12/21/1995	klh	935
Carbon tetrachloride	110.5	22.1	20.0	ug/L	12/21/1995	klh	935
Chlorobenzene	99.0	19.8	20.0	ug/L	12/21/1995	klh	935
Chloroethane	87.0	17.4	20.0	ug/L	12/21/1995	klh	935
2-Chloroethylvinyl ether	106.0	21.2	20.0	ug/L	12/21/1995	klh	935
Chloroform	107.0	21.4	20.0	ug/L	12/21/1995	klh	935
Chloromethane	85.5	17.1	20.0	ug/L	12/21/1995	klh	935
Dibromochloromethane	94.0	18.8	20.0	ug/L	12/21/1995	klh	935
1,2-Dichlorobenzene	90.0	18.0	20.0	ug/L	12/21/1995	klh	935
1,3-Dichlorobenzene	92.5	18.5	20.0	ug/L	12/21/1995	klh	935
1,4-Dichlorobenzene	90.5	18.1	20.0	ug/L	12/21/1995	klh	935
Dichlorodifluoromethane	72.0	14.4	20.0	ug/L	12/21/1995	klh	935
1,1-Dichloroethane	114.0	22.8	20.0	ug/L	12/21/1995	klh	935
1,2-Dichloroethane	88.0	17.6	20.0	ug/L	12/21/1995	klh	935
1,1-Dichloroethene	116.5	23.3	20.0	ug/L	12/21/1995	klh	935
cis-1,2-Dichloroethene	106.5	21.3	20.0	ug/L	12/21/1995	klh	935
trans-1,2-Dichloroethene	106.5	21.3	20.0	ug/L	12/21/1995	klh	935
1,2-Dichloropropane	97.5	19.5	20.0	ug/L	12/21/1995	klh	935
cis-1,3-Dichloropropene	104.0	20.8	20.0	ug/L	12/21/1995	klh	935
trans-1,3-Dichloropropene	96.0	19.2	20.0	ug/L	12/21/1995	klh	935
Methylene chloride	98.0	19.6	20.0	ug/L	12/21/1995	klh	935
1,1,2,2-Tetrachloroethane	79.5	15.9	20.0	ug/L	12/21/1995	klh	935
Tetrachloroethene	90.5	18.1	20.0	ug/L	12/21/1995	klh	935
1,1,1-Trichloroethane	107.5	21.5	20.0	ug/L	12/21/1995	klh	935
1,1,2-Trichloroethane	87.0	17.4	20.0	ug/L	12/21/1995	klh	935
Trichloroethene	97.0	19.4	20.0	ug/L	12/21/1995	klh	935
Trichlorofluoromethane	91.0	18.2	20.0	ug/L	12/21/1995	klh	935
Vinyl chloride	91.5	18.3	20.0	ug/L	12/21/1995	klh	935
1,4-Difluorobenzene (SURR)	108.0	108	100	% Rec.	12/21/1995	klh	935
1,4-Dichlorobutane (SURR)	86.0	86	100	% Rec.	12/21/1995	klh	935
Bromochloromethane (SURR)		N/A	100	% Rec.	12/21/1995	klh	935

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

## METHOD BLANK REPORT

Parameter	Method	Reporting		Date	Analyst	Run
	Blank	Amount	Limit	Analyzed	Initials	Batch
	Found		Units			Number
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	12/29/1995	aal	3438
Benzene	ND	0.5	ug/L	12/29/1995	aal	3438
Toluene	ND	0.5	ug/L	12/29/1995	aal	3438
Ethylbenzene	ND	0.5	ug/L	12/29/1995	aal	3438
Xylenes (Total)	ND	0.5	ug/L	12/29/1995	aal	3438
Bromofluorobenzene (SURR)	91		% Rec.	12/29/1995	aal	3438
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	12/29/1995	dld	3439
Benzene	ND	0.5	ug/L	12/29/1995	dld	3439
Toluene	ND	0.5	ug/L	12/29/1995	dld	3439
Ethylbenzene	ND	0.5	ug/L	12/29/1995	dld	3439
Xylenes (Total)	ND	0.5	ug/L	12/29/1995	dld	3439
Bromofluorobenzene (SURR)	95		% Rec.	12/29/1995	dld	3439
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	01/02/1996	aal	3440
Benzene	ND	0.5	ug/L	01/02/1996	aal	3440
Toluene	ND	0.5	ug/L	01/02/1996	aal	3440
Ethylbenzene	ND	0.5	ug/L	01/02/1996	aal	3440
Xylenes (Total)	ND	0.5	ug/L	01/02/1996	aal	3440
Bromofluorobenzene (SURR)	101		% Rec.	01/02/1996	aal	3440

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.





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## METHOD BLANK REPORT

Parameter	Method			Date Analyzed	Analyst Initials	Run Batch Number
	Blank Amount Found	Reporting Limit	Units			
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	12/21/1995	klh	935
Bromoform	ND	0.4	ug/L	12/21/1995	klh	935
Bromomethane	ND	0.4	ug/L	12/21/1995	klh	935
Carbon tetrachloride	ND	0.4	ug/L	12/21/1995	klh	935
Chlorobenzene	ND	0.4	ug/L	12/21/1995	klh	935
Chloroethane	ND	0.4	ug/L	12/21/1995	klh	935
2-Chloroethylvinyl ether	ND	1.0	ug/L	12/21/1995	klh	935
Chloroform	ND	0.4	ug/L	12/21/1995	klh	935
Chloromethane	ND	0.4	ug/L	12/21/1995	klh	935
Dibromochloromethane	ND	0.4	ug/L	12/21/1995	klh	935
1,2-Dichlorobenzene	ND	0.4	ug/L	12/21/1995	klh	935
1,3-Dichlorobenzene	ND	0.4	ug/L	12/21/1995	klh	935
1,4-Dichlorobenzene	ND	0.4	ug/L	12/21/1995	klh	935
Dichlorodifluoromethane	ND	0.4	ug/L	12/21/1995	klh	935
1,1-Dichloroethane	ND	0.4	ug/L	12/21/1995	klh	935
1,2-Dichloroethane	ND	0.4	ug/L	12/21/1995	klh	935
1,1-Dichloroethene	ND	0.4	ug/L	12/21/1995	klh	935
cis-1,2-Dichloroethene	ND	0.4	ug/L	12/21/1995	klh	935
trans-1,2-Dichloroethene	ND	0.4	ug/L	12/21/1995	klh	935
1,2-Dichloropropane	ND	0.4	ug/L	12/21/1995	klh	935
cis-1,3-Dichloropropene	ND	0.4	ug/L	12/21/1995	klh	935
trans-1,3-Dichloropropene	ND	0.4	ug/L	12/21/1995	klh	935
Methylene chloride	ND	10	ug/L	12/21/1995	klh	935
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	12/21/1995	klh	935
Tetrachloroethene	ND	0.4	ug/L	12/21/1995	klh	935
1,1,1-Trichloroethane	ND	0.4	ug/L	12/21/1995	klh	935
1,1,2-Trichloroethane	ND	0.4	ug/L	12/21/1995	klh	935
Trichloroethene	ND	0.4	ug/L	12/21/1995	klh	935
Trichlorofluoromethane	ND	0.4	ug/L	12/21/1995	klh	935
Vinyl chloride	ND	0.4	ug/L	12/21/1995	klh	935
1,4-Difluorobenzene (SURR)	110		% Rec.	12/21/1995	klh	935
1,4-Dichlorobutane (SURR)	97		% Rec.	12/21/1995	klh	935
Bromochloromethane (SURR)	N/A		% Rec.	12/21/1995	klh	935

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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## METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank					
	Found					Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	12/28/1995	plh	936
Bromoform	ND	0.4	ug/L	12/28/1995	plh	936
Bromomethane	ND	0.4	ug/L	12/28/1995	plh	936
Carbon tetrachloride	ND	0.4	ug/L	12/28/1995	plh	936
Chlorobenzene	ND	0.4	ug/L	12/28/1995	plh	936
Chloroethane	ND	0.4	ug/L	12/28/1995	plh	936
2-Chloroethylvinyl ether	ND	1.0	ug/L	12/28/1995	plh	936
Chloroform	ND	0.4	ug/L	12/28/1995	plh	936
Chloromethane	ND	0.4	ug/L	12/28/1995	plh	936
Dibromochloromethane	ND	0.4	ug/L	12/28/1995	plh	936
1,2-Dichlorobenzene	ND	0.4	ug/L	12/28/1995	plh	936
1,3-Dichlorobenzene	ND	0.4	ug/L	12/28/1995	plh	936
1,4-Dichlorobenzene	ND	0.4	ug/L	12/28/1995	plh	936
Dichlorodifluoromethane	ND	0.4	ug/L	12/28/1995	plh	936
1,1-Dichloroethane	ND	0.4	ug/L	12/28/1995	plh	936
1,2-Dichloroethane	ND	0.4	ug/L	12/28/1995	plh	936
1,1-Dichloroethene	ND	0.4	ug/L	12/28/1995	plh	936
cis-1,2-Dichloroethene	ND	0.4	ug/L	12/28/1995	plh	936
trans-1,2-Dichloroethene	ND	0.4	ug/L	12/28/1995	plh	936
1,2-Dichloropropane	ND	0.4	ug/L	12/28/1995	plh	936
cis-1,3-Dichloropropene	ND	0.4	ug/L	12/28/1995	plh	936
trans-1,3-Dichloropropene	ND	0.4	ug/L	12/28/1995	plh	936
Methylene chloride	ND	10	ug/L	12/28/1995	plh	936
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	12/28/1995	plh	936
Tetrachloroethene	ND	0.4	ug/L	12/28/1995	plh	936
1,1,1-Trichloroethane	ND	0.4	ug/L	12/28/1995	plh	936
1,1,2-Trichloroethane	ND	0.4	ug/L	12/28/1995	plh	936
Trichloroethene	ND	0.4	ug/L	12/28/1995	plh	936
Trichlorofluoromethane	ND	0.4	ug/L	12/28/1995	plh	936
Vinyl chloride	ND	0.4	ug/L	12/28/1995	plh	936
1,4-Difluorobenzene (SURR)	98		‡ Rec.	12/28/1995	plh	936
1,4-Dichlorobutane (SURR)	86		‡ Rec.	12/28/1995	plh	936
Bromochloromethane (SURR)	NA		‡ Rec.	12/28/1995	plh	936

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Client Acct: 1821  
NET Job No: 95.04813

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Ref: Shell 1784 150th Ave., San Leandro, CA/951219-T1

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD			Spike Conc.	Dup. Conc.	Units			
METHOD 5030/8015-M (Shell)											
Purgeable TPH	108.0	100.0	7.7	0.5	ND	0.54	0.50	mg/L	12/29/1995	3438	257662
Benzene	97.0	93.5	3.7	7.68	ND	7.45	7.18	ug/L	12/29/1995	3438	257662
Toluene	96.5	93.4	3.3	25.8	ND	24.9	24.1	ug/L	12/29/1995	3438	257662
METHOD 5030/8015-M (Shell)											
Purgeable TPH	106.0	104.0	1.9	0.50	ND	0.53	0.52	mg/L	12/29/1995	3439	257773
Benzene	98.6	98.5	0.1	7.38	ND	7.28	7.27	ug/L	12/29/1995	3439	257773
Toluene	97.2	98.0	0.8	25.0	ND	24.3	24.5	ug/L	12/29/1995	3439	257773
METHOD 5030/8015-M (Shell)											
Purgeable TPH	84.0	94.0	11.2	0.5	ND	0.42	0.47	mg/L	01/02/1996	3440	257789
Benzene	92.4	93.5	1.2	8.21	ND	7.59	7.68	ug/L	01/02/1996	3440	257789
Toluene	92.3	95.2	3.1	27.1	ND	25.0	25.8	ug/L	01/02/1996	3440	257789

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Client Name: Blaine Tech Services

Date: 01/04/1996

Client Acct: 1821

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### MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD			Spike Conc.	Dup. Conc.	Units			
METHOD 8010 (GC,Liquid)											257225
Chlorobenzene	85.0	95.0	11.1	20.0	ND	17.0	19.0	ug/L	12/21/1995	935	257225
1,1-Dichloroethene	96.0	91.0	5.3	20.0	0.8	20.0	19.0	ug/L	12/21/1995	935	257225
Trichloroethene	80.0	90.0	11.8	20.0	ND	16.0	18.0	ug/L	12/21/1995	935	257225

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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### MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD	Spike Amount		Spike Conc.	Dup. Conc.	Units			
METHOD 8010 (GC,Liquid)											257573
Chlorobenzene	92.5	115.5	22.0	20.0	ND	18.5	23.1	ug/L	12/28/1995	936	257573
1,1-Dichloroethene	78.5	111.5	34.6	20.0	ND	15.7	22.3	ug/L	12/28/1995	936	257573
Trichloroethene	91.5	113.5	21.4	20.0	ND	18.3	22.7	ug/L	12/28/1995	936	257573

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- \* : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

### Method References

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

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

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

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

COOLER RECEIPT FORM

Project: 951219-T1 Log No: 9650  
Cooler received on: 12/20/95 and checked on 12/20/95 by [Signature]  
(signature)

- Were custody papers present?.....~~YES~~ NO
- Were custody papers properly filled out?.....~~YES~~ NO
- Were the custody papers signed?.....~~YES~~ NO
- Was sufficient ice used?.....~~YES~~ NO
- Did all bottles arrive in good condition (unbroken)?.....~~YES~~ NO
- Did bottle labels match COC?.....~~YES~~ NO
- Were proper bottles used for analysis indicated?.....~~YES~~ NO
- Correct preservatives used?.....~~YES~~ NO
- VOA vials checked for headspace bubbles?.....~~YES~~ NO

Temp. <sup>0</sup>C.

Note which voas (if any) had bubbles:\*

Sample descriptor:	Number of vials:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(coolerrec)