



ALCO  
HAP/MAT  
94 FEB -8 PM 4:20

January 31, 1994

Scott O. Seery  
Alameda County Department  
of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, California 94621-1426

Re: Shell Service Station  
WIC #204-6852-1404  
1784 150th Avenue  
San Leandro, California 94578  
WA Job #81-422-203

Dear Mr. Seery:

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 fourth quarter 1993 and proposed work for the first quarter 1994.

Fourth 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. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) compiled ground water elevation and analytic data (Tables 1 and 2), prepared a ground water elevation contour map (Figure 2) and prepared concentration maps for total petroleum hydrocarbons as gasoline and benzene in ground water (Figures 3 and 4).

Anticipated First Quarter 1994 Activities:

- WA will submit a report presenting the results of first quarter 1994 ground water sampling and depth measurements. The report will include tabulated chemical analytic results, a ground water elevation contour map and concentration contour maps.
- WA will also perform the subsurface investigation outlined in our December 7, 1993 workplan.

January 31, 1994

2

Discussion of Results:

The ground water flow direction has reversed in some areas. However, this reversal may be due to temporary seasonal changes in ground water flow. We will continue to monitor ground water flow directions to assess whether there are consistent flow direction trends over time.

Please call if you have any questions.



Sincerely,  
Weiss Associates

John Wolf  
Technical Assistant

N. Scott MacLeod, R.G.  
Project Geologist

JAW/NSM:jaw

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Attachments: A - BTS' Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998  
Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay  
Region, 2101 Webster Street, Suite 500, Oakland, California 94612  
Eileen Hughes, California Department of Toxic Substances Control, 700 Heinz Avenue,  
Building "F" Suite 200, Berkeley CA, 94710

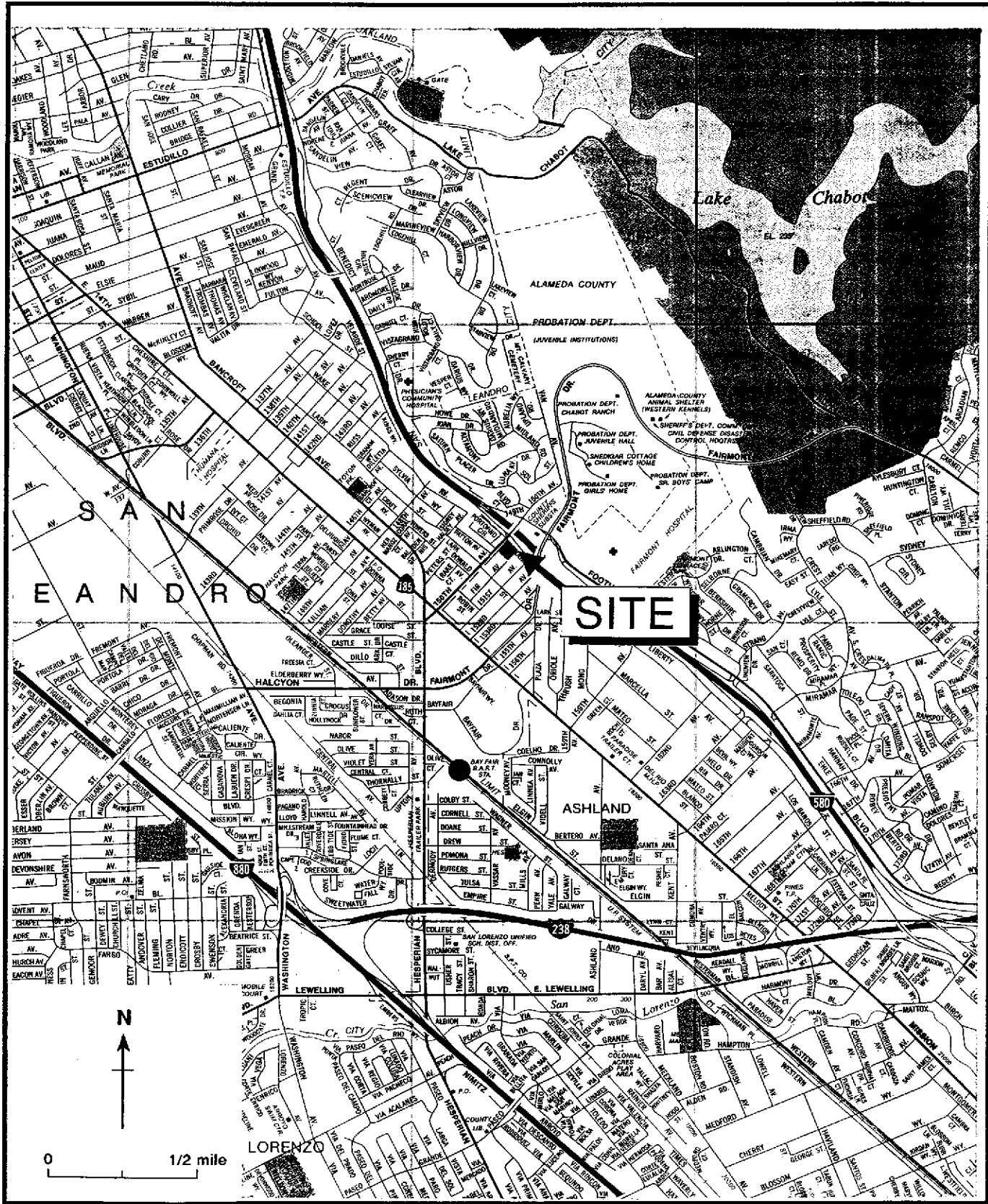
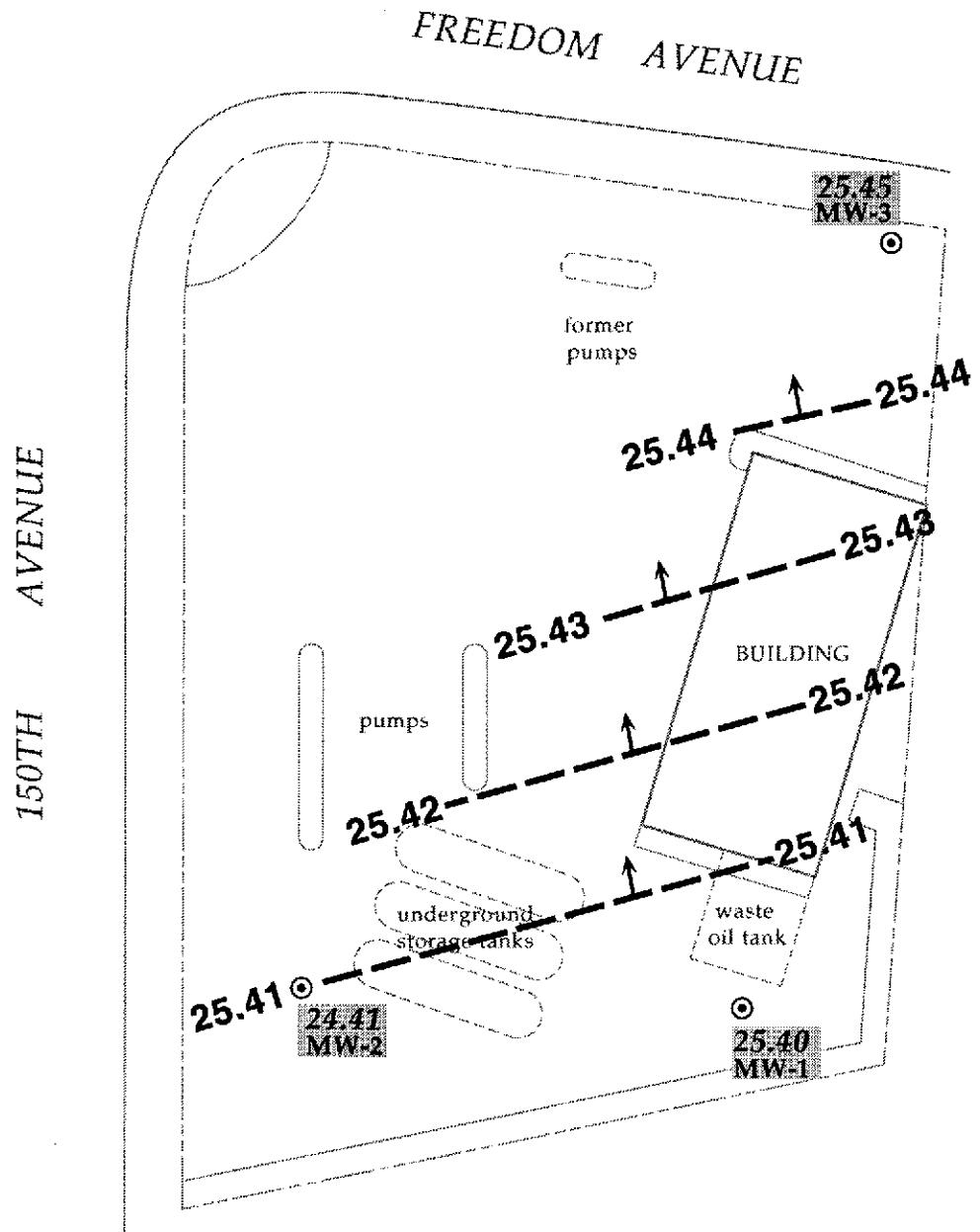


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California



**EXPLANATION**

- ⊙ MW-2 Monitoring well
- 25.41 Ground water elevation, ft above mean sea level
- 25.43 Ground water elevation contour, ft above mean sea level, approximately located, dashed where inferred
- Inferred ground water flow direction

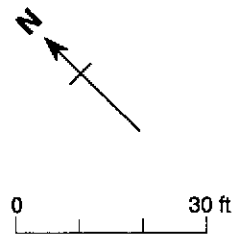


Figure 2. Monitoring Well Locations and Ground Water Elevations Contours - December 13, 1993 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

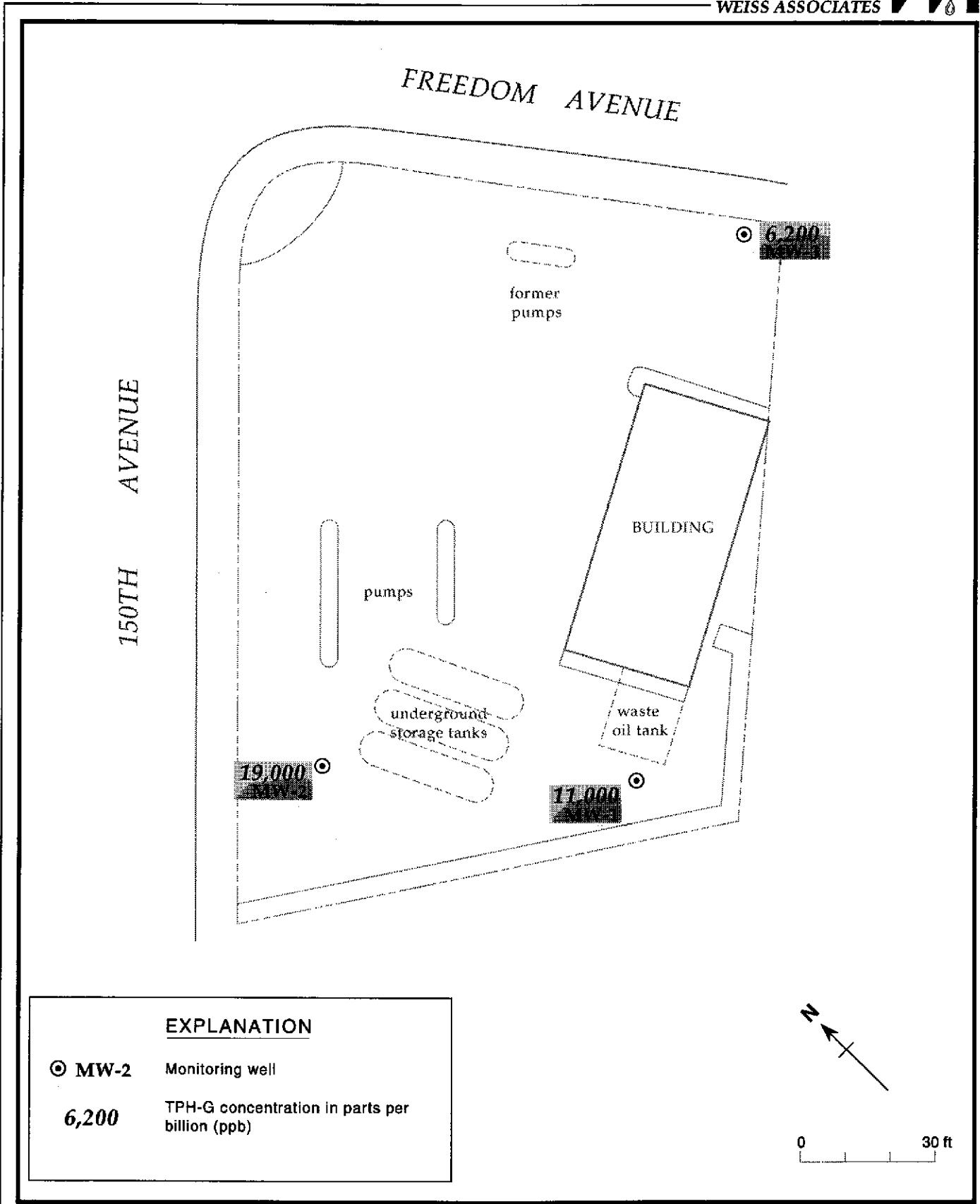


Figure 3. Monitoring Well Locations and TPH-G Concentrations in Ground Water - December 13, 1993 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

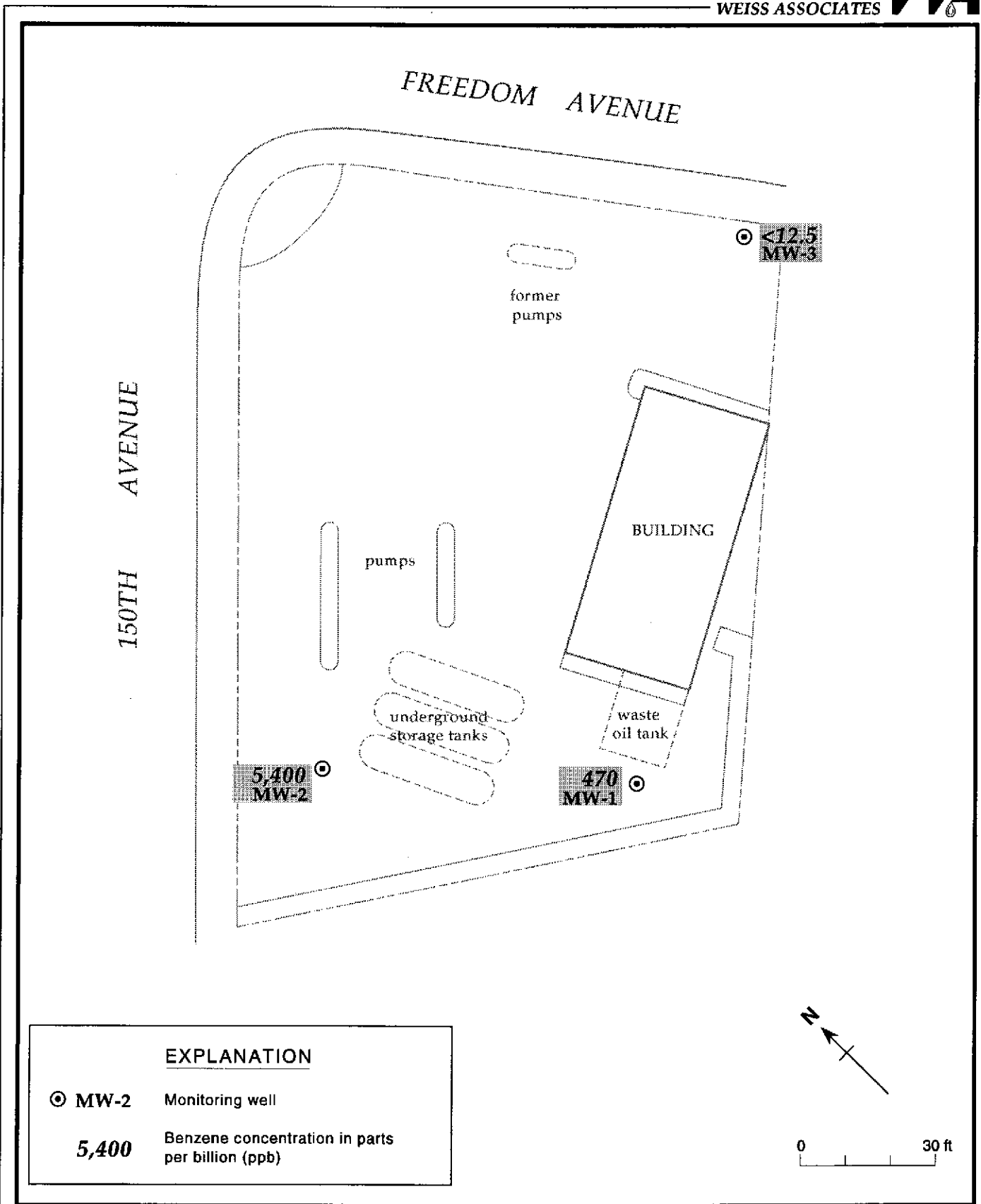


Figure 4. Monitoring Well Locations and Benzene Concentrations in Ground Water - December 13, 1993 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

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		
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
	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		
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

-- Table 1 continues on next page --

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

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Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	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

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TABLE 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-0703, 1784 150th Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (ug/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 <sup>b</sup>
	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>e</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
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>g</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>h</sup>
	12/04/92	23.89	42,000	---	---	15,000	960	2,400	2,900	100
	03/03/93	17.28	160,000	---	---	36,000	32,000	3,800	21,000	7.7
	03/03/93 <sup>h</sup>	---	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
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>i</sup>	29.46	1,900	---	---	21	3.4	6.6	<5	21
	12/04/92	29.93	2,400	---	---	8.2	<5	<5	<5	16
	12/04/92 <sup>i</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
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	---

-- Table 2 continues on next page --

Weiss Associates



TABLE 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-0703, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (ug/l)							1,2-DCA
			TPH-G	TPH-D	POG	B	E	T	X	
	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	---
	09/01/92	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 <sup>j</sup>
	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>
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 <sup>j</sup>
	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

**Abbreviations:**

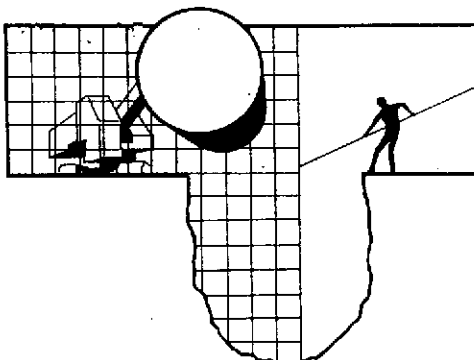
TPH-G = Total Petroleum Hydrocarbons as Gasoline by Modified EPA Method 8015  
 TPH-D = Total Petroleum Hydrocarbons as Diesel by Modified EPA Method 8015  
 POG = Petroleum oil and grease by American Public Health Association Standard Method 503E or 5520F  
 B = Benzene by EPA Method 8020  
 E = Ethylbenzene 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 compound  
 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.  
 g = Diesel result is due to a petroleum hydrocarbon that is lighter than diesel  
 h = Sample MW-2 was diluted 1:100 for EPA Method 8010 due to the interfering hydrocarbon peaks  
 i = Duplicate sample  
 j = The trip and field blank samples from 12/04/92 contained 14 and 10 µg/L 1,3-dichlorobenzene, respectively  
 k = 1.4 µg/L Chloroethene detected in equipment blank, trip blank not analyzed  
 l = DTSC recommended action level for drinking water; MCL not established



**ATTACHMENT A**  
**GROUND WATER MONITORING REPORT AND ANALYTIC REPORT**



# BLAINE TECH SERVICES INC.

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

January 10, 1993

Shell Oil Company  
P.O. Box 5278  
Concord, CA 94520-9998

Attn: Daniel T. Kirk

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

QUARTER:  
4th quarter of 1993

## QUARTERLY GROUNDWATER SAMPLING REPORT 931213-K-1

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This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a **TABLE OF WELL GAUGING DATA**. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

## **STANDARD PROCEDURES**

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### **Evacuation**

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be removed in cases where the well dewateres and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

### **Decontamination**

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

### **Free Product Skimmer**

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

ecovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

### **Sample Containers**

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

### **Sampling**

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

### **Sample Designations**

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

### **Chain of Custody**

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

## **Hazardous Materials Testing Laboratory**

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

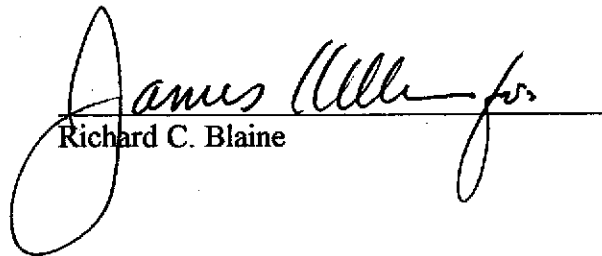
### **Objective Information Collection**

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

### **Reportage**

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

Please call if we can be of any further assistance.

  
Richard C. Blaine

RCB/mla

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

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

### 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	12/13/93	TOC	ODOR	-	--	-	23.73	44.51
MW-2 *	12/13/93	TOC	SHEEN/ODOR	-	--	-	20.42	44.27
MW-3	12/13/93	TOC	ODOR	NONE	-	-	26.52	41.48


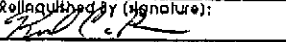
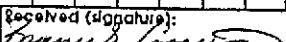
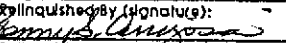
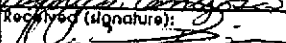
\* Sample DUP was a duplicate sample taken from well MW-2.



#5/2

9312164

18 16

 <b>SHELL OIL COMPANY</b> RETAIL ENVIRONMENTAL ENGINEERING - WEST										<b>CHAIN OF CUSTODY RECORD</b> Serial No: _____										Date: 12/13/93 Page 1 of 1																							
Site Address: 1784 150th Avenue, San Leandro WIC#: 204-6852-1404										<b>Analysis Required</b>										LAB: Anamatrix																							
Shell Engineer: Dan Kirk					Phone No.: (510) 675-6168 Fax #: 675-6160					<table border="1"> <tr> <th>CHECK ONE (1) BOX ONLY</th> <th>CDOT</th> <th>TURN AROUND TIME</th> </tr> <tr> <td>Quarterly Monitoring <input checked="" type="checkbox"/></td> <td>6441</td> <td>24 hours <input type="checkbox"/></td> </tr> <tr> <td>Site Investigation <input type="checkbox"/></td> <td>6441</td> <td>48 hours <input type="checkbox"/></td> </tr> <tr> <td>Soil Classify/Disposal <input type="checkbox"/></td> <td>6442</td> <td>15 days <input checked="" type="checkbox"/> (Normal)</td> </tr> <tr> <td>Water Classify/Disposal <input type="checkbox"/></td> <td>6443</td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Soil/Air Rem. or Sys. O &amp; M <input type="checkbox"/></td> <td>6443</td> <td></td> </tr> <tr> <td>Water Rem. or Sys. O &amp; M <input type="checkbox"/></td> <td>6443</td> <td></td> </tr> <tr> <td>Other <input type="checkbox"/></td> <td></td> <td></td> </tr> </table>										CHECK ONE (1) BOX ONLY	CDOT	TURN AROUND TIME	Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>	Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>	Soil Classify/Disposal <input type="checkbox"/>	6442	15 days <input checked="" type="checkbox"/> (Normal)	Water Classify/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>	Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6443		Water Rem. or Sys. O & M <input type="checkbox"/>	6443		Other <input type="checkbox"/>		
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Other <input type="checkbox"/>																																											
Consultant Name & Address: Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133										Consultant Contact: Jim Keller										Phone No.: (408) 995-5535 Fax #: 293-8773																							
Comments:										Sampled by: KCB Printed Name: Keith C Brown																																	
Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/802)	Volatile Organics (EPA 824D)	Test for Disposal	Combination TPH 8015 & BTEX 8020	EPA 601	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS																								
① MW1	12/13			W		6						X	X																														
② MW2				W		6						X	X																														
③ MW3				W		6						X	X																														
④ DUP				W		6						X	X																														
⑤ EB				W		6						X	X																														
⑥ TB				W		2						X																															
Relinquished by (Signature): 					Printed Name: Keith C Brown					Date: 12-14-93 Time: 0920					Received (Signature): 					Printed Name: PENNY S. CARRIZOSA					Date: 12-14-93 Time: 0920																		
Relinquished by (Signature): 					Printed Name: PENNY S. CARRIZOSA					Date: 12-14-93 Time: 0940					Received (Signature): 					Printed Name: Maria Barajas					Date: 12/14/93 Time: 0940																		
Relinquished by (Signature): 					Printed Name: 					Date: Time:					Received (Signature): 					Printed Name: 					Date: 																		



# 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 # : 9312164  
Date Received : 12/14/93  
Project ID : 204-6852-1404  
Purchase Order: MOH-B813

The following samples were received at Anamatrix, Inc. for analysis :

ANAMATRIX ID	CLIENT SAMPLE ID
9312164- 1	MW1
9312164- 2	MW2
9312164- 3	MW3
9312164- 4	DUP
9312164- 5	EB
9312164- 6	TB

This report consists of 17 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

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

Sarah Schoen, Ph.D.  
Laboratory Director

12-23-93

Date



## ANAMATRIX REPORT DESCRIPTION GC

### Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anamatrix ID number.

### Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "\*\*\*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

### Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "\*\*\*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

### Qualifiers

Anamatrix uses several data qualifiers (Q) in its report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the reported amount exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

### REPORTING CONVENTIONS

- ◆ Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- ◆ Amounts reported are gross values, i.e., not corrected for method blank contamination.

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

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

Workorder # : 9312164  
Date Received : 12/14/93  
Project ID : 204-6852-1404  
Purchase Order: MOH-B813  
Department : GC  
Sub-Department: VOA

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

M. Hasselmann 12/17/93  
Department Supervisor Date

Taghi Memarzadeh 12/17/93  
Chemist Date

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

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

Workorder # : 9312164  
Date Received : 12/14/93  
Project ID : 204-6852-1404  
Purchase Order: MOH-B813  
Department : GC  
Sub-Department: VOA

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312164- 1	MW1	WATER	12/13/93	8010
9312164- 2	MW2	WATER	12/13/93	8010
9312164- 3	MW3	WATER	12/13/93	8010
9312164- 4	DUP	WATER	12/13/93	8010
9312164- 5	EB	WATER	12/13/93	8010

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

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

Workorder # : 9312164  
Date Received : 12/14/93  
Project ID : 204-6852-1404  
Purchase Order: MOH-B813  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Corinne Khan      12/23/93  
Department Supervisor      Date

Kamel G. Kamel      12/23/93  
Chemist      Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010  
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-6852  
 Sample ID : MW1  
 Matrix : WATER  
 Date Sampled : 12/13/93  
 Date Analyzed : 12/15/93  
 Instrument ID : HP24

Anamatrix ID : 9312164-01  
 Analyst : TM  
 Supervisor : DR  
 Dilution Factor : 1.0  
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	6.3	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010  
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-6852  
 Sample ID : MW2  
 Matrix : WATER  
 Date Sampled : 12/13/93  
 Date Analyzed : 12/15/93  
 Instrument ID : HP24

Anamatrix ID : 9312164-02  
 Analyst : TM  
 Supervisor : [Signature]  
 Dilution Factor : 1.0  
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	ND	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U



ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010  
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-6852  
 Sample ID : MW3  
 Matrix : WATER  
 Date Sampled : 12/13/93  
 Date Analyzed : 12/15/93  
 Instrument ID : HP24

Anamatrix ID : 9312164-03  
 Analyst : TM  
 Supervisor : SH  
 Dilution Factor : 1.0  
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	13.	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010  
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-6852  
 Sample ID : DUP  
 Matrix : WATER  
 Date Sampled : 12/13/93  
 Date Analyzed : 12/15/93  
 Instrument ID : HP24

Anamatrix ID : 9312164-04  
 Analyst : TM  
 Supervisor : Mh  
 Dilution Factor : 1.0  
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	3.4	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010  
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-6852  
 Sample ID : EB  
 Matrix : WATER  
 Date Sampled : 12/13/93  
 Date Analyzed : 12/15/93  
 Instrument ID : HP24

Anamatrix ID : 9312164-05  
 Analyst : *TN*  
 Supervisor : *sk*  
 Dilution Factor : 1.0  
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	1.4	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	ND	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010  
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-68  
 Sample ID : VBLK  
 Matrix : WATER  
 Date Sampled : 0/ 0/ 0  
 Date Analyzed : 12/15/93  
 Instrument ID : HP24

Anamatrix ID : BD1502I1  
 Analyst : TM  
 Supervisor : sh  
 Dilution Factor : 1.0  
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	ND	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8010  
ANAMETRIX, INC. (408)432-8192

Project ID : 204-6852  
Matrix : LIQUID

Anamatrix ID : 9312164  
Analyst : *TM*  
Supervisor : *sh*

	SAMPLE ID	SU1	SU2	SU3
1	VBLK	67	85	83
2	MW1	74	92	100
3	MW2	74	91	97
4	MW3	79	94	104
5	DUP	73	93	97
6	EB	75	93	92
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

QC LIMITS

-----  
 SU1 = Bromochloromethane (56- 99)  
 SU2 = 1-Chloro-2-fluorobenze (73-110)  
 SU3 = 2-Bromochlorobenzene (65-108)

\* Values outside of Anamatrix QC limits

LABORATORY CONTROL SAMPLE  
 EPA METHOD 601/8010  
 ANAMETRIX, INC. (408)432-8192

Sample I.D. : LABORATORY CONTROL SAMPLE  
 Matrix : WATER  
 SDG/Batch : 12164  
 Date analyzed : 12/15/93

Anamatrix I.D. : MD1501I1  
 Analyst : TM  
 Supervisor : DA  
 Instrument I.D. : HP24

COMPOUND	SPIKE AMOUNT (ug/L)	AMOUNT RECOVERED (ug/L)	PERCENT RECOVERY	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	7.6	76%	65 - 116
1,1-Dichloroethene	10	9.3	93%	64 - 125
trans-1,2-Dichloroethene	10	9.4	94%	77 - 113
1,1-Dichloroethane	10	10.4	104%	85 - 129
cis-1,2-Dichloroethene	10	10.3	103%	78 - 130
1,1,1-Trichloroethane	10	9.7	97%	83 - 125
Trichloroethene	10	9.8	98%	76 - 124
Tetrachloroethene	10	9.6	96%	80 - 118
Chlorobenzene	10	9.6	96%	81 - 130
1,3-Dichlorobenzene	10	9.5	95%	82 - 115
1,4-Dichlorobenzene	10	9.3	93%	85 - 122
1,2-Dichlorobenzene	10	9.9	99%	86 - 122

\* Limits based on data generated by Anamatrix, Inc., December, 1993.

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

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

Workorder # : 9312164  
Date Received : 12/14/93  
Project ID : 204-6852-1404  
Purchase Order: MOH-B813  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312164- 1	MW1	WATER	12/13/93	TPHgBTEX
9312164- 2	MW2	WATER	12/13/93	TPHgBTEX
9312164- 3	MW3	WATER	12/13/93	TPHgBTEX
9312164- 4	DUP	WATER	12/13/93	TPHgBTEX
9312164- 5	EB	WATER	12/13/93	TPHgBTEX
9312164- 6	TB	WATER	12/13/93	TPHgBTEX







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

Instrument ID : HP21  
 Matrix : LIQUID

Analyst : KK  
 Supervisor : CP  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	120%	52-133
Toluene	20	120%	57-136
Ethylbenzene	20	125%	56-139
Total Xylenes	20	130%	56-141
Surrogate Recovery		102%	61-139
Date Analyzed		12/17/93	
Multiplier		1	
Filename Reference		MD1601E1.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  
 Matrix : LIQUID

Analyst : KK  
 Supervisor : *JP*  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	95%	52-133
Toluene	20	95%	57-136
Ethylbenzene	20	100%	56-139
Total Xylenes	20	100%	56-141
Surrogate Recovery		113%	61-139
Date Analyzed		12/17/93	
Multiplier		1	
Filename Reference		MD1701E1.D	

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