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

May 20, 1994

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

> Re: Shell Service Station WIC #204-2495-0101 1800 Powell Street Emeryville, California WA Job #81-794-104

Dear Mr. Oliva:

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

### First Quarter 1994 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths
  and collected ground water samples from the site wells. 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 (Table 1 and Attachment B) and prepared a ground water elevation contour map (Figure 2).

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### Anticipated Second Quarter 1994 Activities:

WA will submit a report presenting the results of the second quarter 1994 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, ground water elevations and a ground water elevation contour map. Historical and current data will be compiled into one table.

Please call if you have any questions.



Sincerely,

Weiss, Associates

John Wolf

Technical Assistant

James W. Carmody, C.E.G.

Senior Project Hydrogeologist

JAW/JWC:jaw

J:\SHELL\700\794QMAP4.WP

Attachments:

A - Blaine Tech's Ground Water Monitoring Report

B - Historical Ground Water Elevation and Analytic Data

Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
 Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region, 2101
 Webster Street, Suite 500, Oakland, California 94612

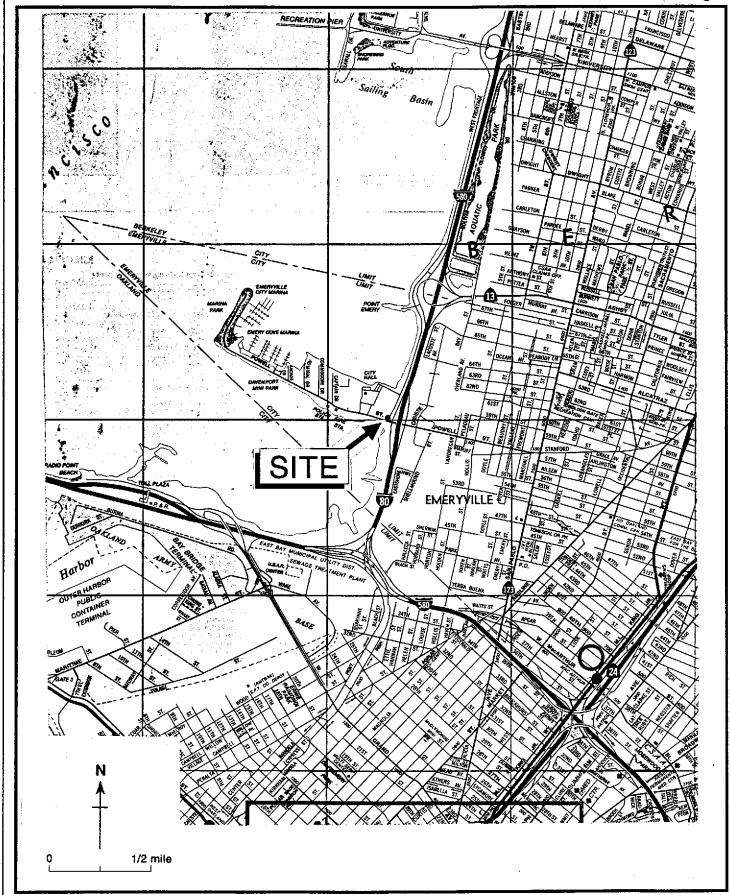


Figure 1. Site Location Map - Shell Service Station WIC# 204-2495-01, 1800 Powell Street, Emeryville, California



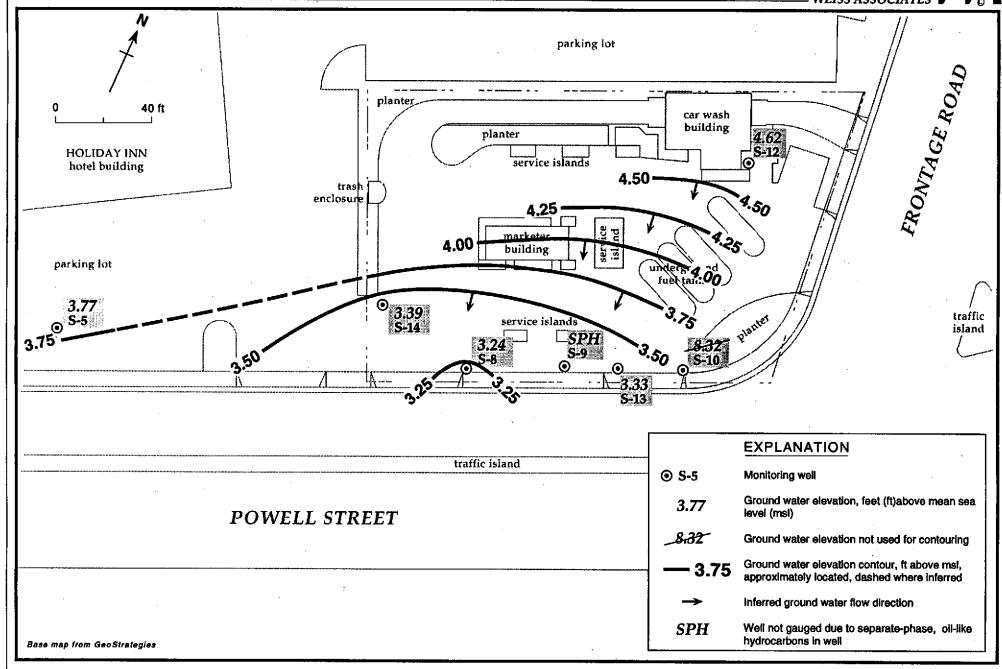


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - February 21, 1994 - Shell Service Station - WIC# 204-2495-0107, 1800 Powell Street, Emeryville, California

11-11 TB	Sampling	Top-of-	Depth to	Ground Water Elevation	TPH-G	TPH-D	B	T	E	X
Weil ID	Date	Casing (ft/mls)	Water (ft)	(ft/msl)	<u> </u>		-parts per c	illion (μg/L)		
s-5	02/21/94 <sup>dup</sup>	11.72	7.95	3.77	1,300	NA	220	<5.0	<5.0	11
s-8	02/21/94	12.76	9,52	3.24	3,200	NA	480	52	<5.0	130
<b>\$-9</b>	02/24/94 <sup>S-PHC</sup>	NA	NA	NA	NA NA	NA	NA	NA	NA	NA
S-10	02/21/94	12.58	4.26	8.32	1,400	NA	190	9.9	<2.5	19
s-12	02/21/94	12.84	8.22	4.62	240ª	2,200 <sup>b</sup>	0.7	<0.5	<0.5	⊲3.6
s-13	02/21/94	12.59	9.26	3,33	700	1,800b	200	<5.0	<5.0	45
s-14	02/21/94	12.69	9,30	3,39	2,800*	3,600b	<5.0	<5.0	<5.0	14
Trip Blank	02/21/94				<50	<50	<0.5	<0,5	<0.5	<0.5
DTSC MCLs					NE	NE	1	100°	680	1,750

#### Abbreviations:

ft/msl = Feet above mean sea level

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 8020

NE = Not established

NA = Not analyzed/Not available

DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water

<n = Not detected at detection limits of n ppb</pre>

dup = Duplicate sample

S-PHC = Separate-phase hydrocarbons present

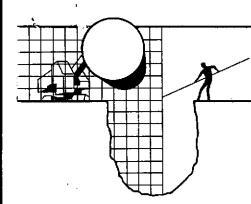
#### Notes:

- a = The concentrations reported as gasoline for samples S-12 and S-14 are primarily due to the presence of a discrete peak and underline of gasoline
- b = The concentrations reported as diesel for samples S-12, S-13 and S-14 are due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18 - C36, possibly motor oil
- c = DTSC recommended action level; MCL not established



### ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



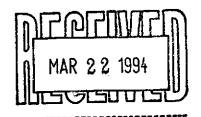
### BLAINE TECH SERVICES INC.

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

March 15, 1994

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

Attn: Daniel T. Kirk



SITE: Shell WIC #204-2495-0101 1800 Powell Street Emeryville, California

QUARTER: 1st quarter of 1994

### QUARTERLY GROUNDWATER SAMPLING REPORT 940221-L-1

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

### 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 obtained in cases where the well dewaters 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

recovered 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.

RCB/lp

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

and C. Blaine

### TABLE OF WELL GAUGING DATA

WELL 1.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feel)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-5 °	2/21/94	TOC		NONE	<b>24</b>	<del></del>	7.95	12.12
S-8	2/21/94	TOC	ODOR	NONE	-		9.52	18.42
<b>S-9</b>	2/21/94	TOC	FREE PRODUCT					
S-10	2/21/94	TOC	-	NONE	·	_	4.26	19.53
S-12	2/21/94	TOC	-	NONE	**	••	8.22	23.82
S-13	2/21/94	TOC	SHEEN/ODOR		-	-	9.26	20.05
S-14	2/21/94	TOC	SHEEN/ODOR	_	-	<del>-</del>	9.30	23.20

<sup>&</sup>quot;Sample DUP was a duplicate sample taken from well S-5.

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	Dan Kirk Consultant Name	& Addros	s:	575-6 Fax #:	No.: (510 168 675-616				.	!	l g			.				## Houn [	
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1961 Concourse Drive Suite E San Jose, CA 95131

Tel: 408-452-8192 Fax: 408-432-8198

MR. JIM KELLER BLAINE TECH 985 TIMOTHY DRIVE

SAN JOSE, CA 95133

Workorder # : 9402238 Date Received: 02/22/94

Project ID : 204-2495-0101

Purchase Order: MOH-B813

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9402238- 1	S-5
9402238- 2	S-8
9402238- 3	S-10
9402238- 4	S-12
9402238- 5	S-13
9402238- 6	S-14
9402238- 7	DUP
9402238- 8	E.B.
9402238- 9	T.B.

This report consists of 16 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

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

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

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

Laboratory Director

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

MR. JIM KELLER BLAINE TECH

985 TIMOTHY DRIVE SAN JOSE, CA 95133 Workorder # : 9402238
Date Received : 02/22/94
Project ID : 204-2495-0101

Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9402238- 4	S-12	WATER	02/21/94	TPHd
9402238- 5	S-13	WATER	02/21/94	TPHd
9402238- 6	S-14	WATER	02/21/94	TPHd
9402238- 1	S-5	WATER	02/21/94	трндвтех
9402238- 2	S-8	WATER	02/21/94	TPHgBTEX
9402238- 3	S-10	WATER	02/21/94	TPHgBTEX
9402238- 4	S-12	WATER	02/21/94	TPHgBTEX
9402238- 5	S-13	WATER	02/21/94	TPHgBTEX
9402238- 6	S-14	WATER	02/21/94	TPHgBTEX
9402238- 7	DUP	WATER	02/21/94	TPHgBTEX
9402238- 9	T.B.	WATER	02/21/94	TPHgBTEX

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

MR. JIM KELLER BLAINE TECH 985 TIMOTHY DRIVE SAN JOSE, CA 95133 Workorder # : 9402238
Date Received : 02/22/94
Project ID : 204-2495-0101

Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

### QA/QC SUMMARY :

- The concentrations reported as gasoline for samples S-12 and S-14 are primarily due to the presence of a discrete peak not indicative of gasoline.

- The concentrations reported as diesel for samples S-12, S-13 and S-14 are due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18-C36, possibly motor oil.

Charles Bulman 3/7/84
Department Supervisor Date

Kamel G, Kamel 3/174
Chemist Date

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

Lab Workorder : 9402238 Client Project ID : 204-2495-0101

Matrix : WATER

Units : uq/L

		Client ID	Client ID	Client ID	Client ID	Client ID
	Method	<b>S-</b> 5	S-8	S-10	S-12	S-13
	Reporting	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
Compound Name	Limit*	9402238-01	9402238-02	9402238-03	9402238-04	9402238-05
Benzene	0.50	250	480	190	0.71	200
Toluene	0.50	<5	52	9.9	ND	<5
Ethylbenzene	0.50	<5	<5	<2.5	ND	<5
Total Xylenes	0.50	11	130	19	3.6	45
TPH as Gasoline	50	1000	3200	1400	240	700
Surrogate Recovery		121%	107%	101%	107%	120%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		02/21/94	02/21/94	02/21/94	02/21/94	02/21/94
Date Analyzed		02/26/94	02/28/94	02/28/94	02/25/94	02/26/94
RLMF		10	10	5	1	10
Filename Reference		FPF23801.D	FRF23802.D	FRF23803.D	FPF23804.D	FPF23805.D

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

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

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

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

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

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

Kamel G. Kamel

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

Lab Workorder : 9402238

Client Project ID : 204-2495-0101

Matrix : WATER

Units : ug/L

		Client ID	Client ID	Client ID	Client ID	Client ID
	Method	S-14	DUP	т.в.		***************************************
	Reporting	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
Compound Name	Limit*	9402238-06	9402238-07	9402238-09	METHOD BLANK	METHOD BLANK
Benzene	0.50	<5	220	ND	ND	ND
Toluene	0.50	<5	<5	ND	ND	ND
Ethylbenzene	0.50	<5	<5	ND	ND	ND
Total Xylenes	0.50	14	11	ND	ND	ND
TPH as Gasoline	50	2800	1300	ND	ND	ND
Surrogate Recovery		122%	115%	108%	105%	109%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		02/21/94	02/21/94	02/21/94	N/A	N/A
Date Analyzed		03/02/94	03/02/94	02/25/94	02/25/94	02/28/94
RLMF		10	10	1	1	1
Filename Reference		FRF23806.D	FTF23807.D	FPF23809.D	BF2502E1.D	BF2801E1.D

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

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

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

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

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

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

Kamel C Kamel 3/7/94

Analyst Date

Chengl Balance

3/7/44

Date

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

Lab Workorder : 9402238

Client Project ID : 204-2495-0101

Matrix

: WATER

Units : uq/L

	1	Client ID	Client ID	Client ID	Client ID	Client ID
	Method		***************************************	<u> </u>	**************************************	***************************************
	Reporting	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
Compound Name	Limit*	METHOD BLANK	######################################	***************************************	\$	***************************************
Benzene	0.50	ND				
Toluene	0.50	ND				
Ethylbenzene	0.50	ND				
Total Xylenes	0.50	ND				**
TPH as Gasoline	50	ND				
Surrogate Recovery		112%				
Instrument ID		HP4				·
Date Sampled		N/A				***
Date Analyzed		03/02/94				
RLMF		1	-	·		
Filename Reference		BM0201E1.D				

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

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

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

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

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

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

Kamel c. Kamel 3/7/14 Analyst

### Matrix Spike Report

### Total Petroleum Hydrocarbons as Gasoline ITS - Anametrix Laboratories - (408)432-8192

Project ID

: 204-2495-0101

Laboratory ID : 9402238-04

Sample ID

: S-12

Analyst : KK

Matrix

. 5-12

Supervisor : W

Date Sampled

: WATER

: 02/21/94

Instrument ID : HP4

COMPOUND NAME	SPIKE	SAMPLE	MS	MSD	RECOVERY	RPD	RPD
	AMOUNT	RESULTS	RECOVERY	RECOVERY	LIMITS		LIMITS
Gasoline	500	240	58%	64%	50-139	-10%	30
Surrogate Recovery		107%	88%	92%			
Date Analyzed		02/25/94	02/25/94	02/25/94			
Multiplier		1	1	1			
Filename Reference		FPF23804.D	FMF23804.D	FDF23804.D			

<sup>\*</sup> Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4

Analyst : KE

Matrix

: LIQUID

Supervisor : 6

COMPOUND NAME	SPIKE	LCS	RECOVERY
	AMOUNT	RECOVERY	LIMITS
Gasoline	500	76%	56-141
Surrogate Recovery		93%	61-139
Date Analyzed		02/26/94	
Multiplier		1	
Filename Reference		MF2502E1.D	

<sup>\*</sup> Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4

Analyst : KL

Matrix

: LIQUID

Supervisor:

COMPOUND NAME	SPIKE	LCS	RECOVERY
	AMOUNT	RECOVERY	LIMITS
Gasoline	500	64%	56-141
Surrogate Recovery		92%	61-139
Date Analyzed		02/28/94	
Multiplier		1	
Filename Reference		MF2801E1.D	

<sup>\*</sup> Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4

Analyst : KK

Matrix

: LIQUID

Supervisor: W

COMPOUND NAME	SPIKE	LCS	RECOVERY
	AMOUNT	RECOVERY	LIMITS
Gasoline	500	76%	56-141
Surrogate Recovery		98%	61-139
Date Analyzed		03/03/94	
Multiplier		1	
Filename Reference		MM0202E1.D	

<sup>\*</sup> Limits established by Inchcape Testing Services, Anametrix Laboratories.

### ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9402238

Project Number: 204-2495-0101 Date Released: 03/04/94

Matrix

: WATER

Date Sampled : 02/21/94

Instrument I.D.: HP9

Date Extracted: 02/28/94

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9402238-04	S-12	03/02/94	50	2200	33%
9402238-05	S-13	03/02/94	250	1800	40%
9402238-06	S-14	03/03/94	250	3600	32%
BF2812F1	METHOD BLANK	03/01/94	50	ND	33%
		, ,			

Note: Reporting limit is obtained by multiplying the dilution factor times 50 ug/L. The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

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

# TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 3510 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE

Anametrix I.D.: MF2812F1

Matrix : WATER
Date Sampled : N/A

Analyst : Al Supervisor : al

Date Sampled : N/A
Date Extracted: 02/28/94
Date Analyzed : 03/01/94

Date Released: 03/04/94

Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	870	70%	820	66%	-6%	47-130
SURROGATE			55%		63%		30-130

<sup>\*</sup> Quality control limits established by Anametrix, Inc.

### ANAMETRIX REPORT DESCRIPTION INORGANICS

### Analytical Data Report (ADR)

The ADR contains tabulated results for inorganic analytes. All field samples, QC samples and blanks were prepared and analyzed according to procedures in the following references:

- "Test Methods for Evaluating Solid Waste," SW-846, EPA, 3rd Edition, November 1986.
- "Methods for Chemical Analysis of Water and Wastes," EPA, 3rd Edition, 1983.

- CCR Title 22, Section 66261, Appendix II, California Waste Extraction Test.
  CCR Title 22, Section 66261, Appendix XI, Organic Lead.
  "Standard Methods for the Examination of Water and Wastewater," APHA, AWMA, WEF, 18th Edition, 1992.
- USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, ILMO2.1, 1991.

### Matrix Spike Report (MSR)

The MSR summarizes percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. MSRs may not be provided with all analytical reports. Anametrix control limit for MSR is 75-125% with 25% for RPD limits.

### Laboratory Control Sample Report (LCSR)

The LCSR summarizes percent recovery information for laboratory control spikes on reagent water or soil. This information is a statement of performance for the method, i.e., the samples are properly prepared and analyzed according to the applicable methods. Anametrix control limit for LCSR is 80-120%.

### Method Blank Report (MBR)

The MBR summarizes quality control information for reagents used in preparing samples. The absolute value of each analyte measured in the method blank should be below the method reporting limit for that analyte.

### Post Digestion Spike Report (PDSR)

The PDSR summarizes percent recovery information for post digestion spikes. A post digestion spike is performed for a particular analyte if the matrix spike recovery is outside of established control limits. Any percent recovery for a post digestion spike outside of established limits for an analyte indicates probable matrix effects and interferences for that analyte. Anametrix control limit for PDSR is 85-115%.

### Qualifiers (Q)

Anametrix uses several data qualifiers in inorganic reports. These qualifiers give additional information on the analytes reported. The following is a list of qualifiers and their meanings:

- I Sample was analyzed at the stated dilution due to spectral interferences.
- U Analyte concentration was below the method reporting limit. For matrix and post digestion spike reports, a value of "0.0" is entered for calculation of the percent recovery.
- B Sample concentration was below the reporting limit but above the instrument detection limit. Result is entered for calculation of the percent recovery only.
- H Spike percent recovery was outside of Anametrix control limits due to interferences from relatively high concentration level of the analyte in the unspiked sample.
- L Reporting limit was increased to compensate for background absorbances or matrix interferences.

### Comment Codes

In addition to qualifiers, the following codes are used in the comment section of all reports to give additional information about sample preparation methods:

- A Sample was prepared for silver based on the silver digestion method developed by the Southern California Laboratory, Department of Health Services, "Acid Digestion for Sediments, Sludges, Soils and Solid Wastes. A Proposed Alternative to EPA SW846, Method 3050." Environmental Science and Technology, 1989, 23, 898-900.
- T Spikes were prepared after extraction by the Toxicity Characteristic Leaching Procedure (TCLP).
- C Spikes were prepared after extraction by the California Waste Extraction Test (CWET) method.
- D Reported results are dissolved, not total, metals.

### Reporting Conventions

Analytical values reported are gross values, i.e., not corrected for method blank contamination. Solid matrices are reported on a wet weight basis, unless specifically requested otherwise. Unless noted, all samples were prepared according to procedures in the EPA Contract Laboratory Program Statement of Work, ILMO2.1, 1991.

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

MR. JIM KELLER BLAINE TECH

985 TIMOTHY DRIVE SAN JOSE, CA 95133

Workorder # : 9402238
Date Received : 02/22/94
Project ID : 204-2495-0101

Purchase Order: MOH-B813 Department : METALS Sub-Department: METALS

### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID			DATE SAMPLED	METHOD
9402238- 2	S-8	WATER	02/21/94	160.1

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

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

Workorder # : 9402238 Date Received: 02/22/94
Project ID: 204-2495-0101
Purchase Order: MOH-B813
Department: METALS

Sub-Department: METALS

### QA/QC SUMMARY :

- No QA/QC problems encountered for this workorder.

### INORGANIC ANALYSIS DATA SHEET ANAMETRIX, INC. (408) 432-8192

Analyte-Method: Total Dissolved Solids-160.1 Project I.D. : 204-2495-0101 Matrix : WATER

Reporting Unit: mg/L

Analyst

Supervisor

: 02/21/94 : 03/02/94

Date Sampled Date Released

Instrument I.D. : N/A

ANAMETRIX SAMPLE I.D.	CLIENT I.D.	DATE PREPARED	DATE ANALYZED	REP. LIMIT	DIL. FACTOR	RESULT	Q
9402238-02 MB0224W	S-8 Method Blank	02/24/94 02/24/94	02/25/94 02/25/94	10.0 10.0	1	2910 ND	

COMMENT:

### LABORATORY CONTROL SAMPLE REPORT ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.# : 9402238 Spike I.D. : LCS0224W

Analyst Supervisor

Project I.D. Matrix

: 204-2495-0101

Date Released : 03/02/94

: WATER

Instrument I.D.: N/A

Reporting Unit : mg/L

ANALYTE-METHOD	DATE PREPARED	DATE ANALYZED	SPIKE AMT.	METHOD SPIKE	% REC.	Q
Total Dissolved Solids-160.1	02/24/94	02/25/94	1500	1520	101	

COMMENT:

### ATTACHMENT B

HISTORICAL GROUND WATER ELEVATION AND ANALYTIC DATA

Table 1
SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Shell Service Station 1800 Powell Street Emeryville, California WIC#204-2495-0101

Well	Sampling	TOB	DTW	GWE	TPHg	В	T	E	X	ТРНа	TPHmo
Number	Date	(feet)	(feet)	(feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
S-5	10/27/88	11.72			3000	660	20	20	70	NA	NA
	2/10/89	11.72	-		2900	550	20	20	30	NA	NA
	4/28/89	11.72			4300	750	10	20	<30	NA	NA
	7/7/89	11.72			1500	300	8.0	7	9	NA	NA
	10/25/89	11.72			2100	<b>7</b> 60	10	40	50	NA	NA
	1/4/90	. 11.72			1300	520	9.0	8	10	NA	NA
	7/6/90	11.72	8.36	3.36	1400	500	10	4	<10	NA	NA
	10/19/90	11.72	_		4200	1100	9.0	14	7 .	NA	NA
	1/14/91	11.72			4500	1100	15	30	25	6100	NA
	4/23/91	11.72			2800	500	8.0	14	10	NA	NA
	7/8/91	11.72	9.15	2.57	3200	1000	16	9	12	. NA	NA
	10/11/91	11.72	9.67	2.05	1700	16	5 <i>.</i> 7	5.2	8.9	NA	NA
	2/12/92	11.72	9.00	2.72	1300	300	5.0	< 5.0	<5	NA	NA
	5/11/92	11.72	8.61	3.11	1900	490	<5.0	<5.0	<5	NA	NA
	9/1/92	11.72	9.61	2.11	6700	760	26	<25	<25	. NA	NA
	12/4/92	11.72	9.47	2.25	2900	890	5.3	<b>7.</b> 3	13	NA	NA
	2/17/93	11.72	8.29	3.43	1300 :	280	3.0	3.4	9.4	NA	NA
	5/29/93	11.72	9.16	2.56	460	130	<0.5	<0.5	2.9	NA	NA
	8/11/93	11.72	9.30	2.42	1700	530	5.5	<5.0	5.8	NA	NA
S-6	10/27/88				6000	1700	50	80	420	NA	NA
	2/10/89				2800	740	20	20	140	NA	NA
	4/28/89				6500	2400	30	50	210	NA	NA
	7/7/89	***			3700	1700	34	55	200	NA	NA
•	10/25/89		***		<50	23	<5.0	<5.0	10	NA	NA
	11/10/89	<del></del>			Well abando				-0		• • • •
S-7	10/27/88			:	50	1.1	<1.0	<1.0	4	NA	NA
	2/10/89				50	0.9	<1.0	<1.0	<3	NA	NA
	4/28/89				<50	1.0	<1.0	<1.0	<3	NA -	NA
	7/7/89		, <del></del>		<i>7</i> 0	2.2	<1.0	<1.0	<3	NA	NA
	10/25/89				6200	2200	130	190	660	NA	NA
	11/10/89				Well abando			-,	<del>-</del>	- ·• •	

Page 1 of 5

Table 1
SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Shell Service Station 1800 Powell Street Emeryville, California WIC#204-2495-0101

Well Number	Sampling Date	TOB (feet)	DTW (feet)	GWE (feet)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TPHd (ppb)	TPHmo (ppb)
			, , , , , , , , , , , , , , , , , , ,	(	NP PO	(PP2)	(PPD)	(PPD)	(PPD)	(ppb)	(טעט)
S-8	10/27/88	12.76			1000	610	9	1.0	49	NIA	NT A
	2/10/89	12.76			500	160	. 5	<2.0	42 17	NA NA	NA
٠	4/28/89	12.76			2700	1500	20	10	40	NA NA	NA NA
	7/7/89	12.76			440	180	5	2.0	12		NA NA
	10/25/89	12.76			2000	1100	17	5.0	70	NA NA	NA NA
	1/4/90	12.76			1900	1300	20	<10	70 70	NA NA	NA NA
	7/6/90	12.76	9.50	3.26	1600	920	30	<10	60	NA NA	NA NA
	10/19/90	12.76			1400	640	<10	<10	30	NA	NA NA
	1/14/91	12.76			670	190	5.8	<0.5	30 19	760	NA 600
	4/23/91	12.76			2400	740	5.6 54	5.7	59	NA	NA
	7/8/91	12.76	10.45	2.31	1100	450	15	<2.5	42	NA NA	NA NA
	10/11/91	12.76	10.83	1.93	340	4	0.6	<0.5	17	NA NA	NA NA
	2/12/92	12.76	10.44	2.32	<1000	260	<10	<10	11	NA.	NA NA
	5/11/92	12.76	10.17	2.59	1800	700	14	<5.0	46	NA NA	
	9/1/92	12.76	10.81	1.95	Floating pro		1-1	<b>\J.0</b>	40	NA NA	NA
	12/4/92	12.76	10.81	1.95	960	250	4.3	<2.5	14		NA
	2/17/93	12.76	9.65	3.11	2700 ·	800	35	10	83	NA NA	NA NA
	5/29/93	12.76	10.46	2.30	960	710	25	84		NA	NA
	8/11/93	12.76	10.59	2.17	1300	630	17	<5.0	80	NA	NA
	0, 11, 70	12.70	10.07	2.17	1500	050	17	<b>&lt;</b> 3.0	46	NA	NA
S-9	10/27/88	12.75			Floating pro	duct: thickne	es not mea	sured			
	2/10/89	12.75			Floating pro						
	4/28/89	12.75			Floating pro						
	7/7/89	12.75			Floating pro						
	10/25/89	12.75			Floating pro						,
	1/4/90	12.75			Floating pro						
	4/12/90	12.75			Floating pro						
	7/6/90	12.75	9.67	3.08	Floating pro					•	
	10/19/90	12.75			Floating prox						
	1/14/91	12.75			Floating prod						
	4/23/91	12.75			Floating prod						•
	7/8/91	12.75	·	-	Floating prod					•	
	10/11/91	12.75	22.30	-9.55	Floating proc	duct: unable	to measure	accurately	Very class	rocharco	
	• •						- measure	accurately.	+ et y SiOW	rectiange.	•

Table 1
SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

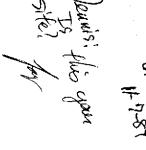
Shell Service Station 1800 Powell Street Emeryville, California WIC#204-2495-0101

Well	Sampling	ТОВ	DTW	GWE	TPHg	В	T	E	X	TPHd	TPHmo
Number	<u>Date</u>	(feet)	(feet)	(feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
S-10	10/27/88	12.58			700000	37000	100000	20000	110000	NA	NA
	2/10/89	12.58			6500	480	700	100	1800	NA	NA
	4/28/89	12.58			13000	1300	500	600	3700	NA	NA
	7/7/89	12.58		****	14000	1300	310	270	2400	NA	NA
	10/25/89	12.58			4200	580	34	4.0	440	NA	NA:
	1/4/90	12.58	<del></del> .		1700	360	10	7.8	170	NA	NA
	4/12/90	12.58	·		Floating pro						•
	7/6/90	12.58	9.16	3.42	Floating pro						
	10/19/90	12.58			Floating pro						
	1/14/91	12.58			Floating pro						•
	4/23/91	12.58			Floating pro						
	7/8/91	12.58	9.41	3.17	Floating pro			i thickness			
	10/11/91	12.58	7.77	4.81	Not sampled		it recharge				
	2/12/92	12.58	6.41	6.17	1200	470	16	<5.0	14	NA	NA
	5/11/92	12.58	9.04	3.54	1100	100	6	4.0	19	NA	NA
	9/1/92	12.58	9.38	3.20	Floating pro	duct: 0.01 fe	et measured	i thickness			
	12/4/92	12.58	6.89	5.69	Floating pro	duct				•	
	2/17/93	12.58	7.34	5.24	530	89	8.5	1.6	4.5	NA	NA
	5/29/93	12.58	6.60	5. <del>9</del> 8	240	65	3.8	2.2	8.6	NA	NA
	8/11/93	12.58	9.09	3.49	250	23	4.1	<1.0	6.4	NA	NA
S-12	11/17/89	12.84			<250	18	<2.0	<2.0	<5	1400	NA
	1/4/90	12.84			<250	24	2.0	<2.0	<5	NA	NA
	7/6/90	12.84	8.27	4.57	80	15	0.7	< 0.5	2	NA	NA
	10/19/90	12.84			150	12	9.0	<0.5	3.6	NA	NA
	1/14/91	12.84			120	3.6	0.8	<0.5	2.9	1000	600
	4/23/91	12.84		:	100	3.7	3.8	0.8	11	820^	800
	7/8/91	12.84	9.50	3.34	70	2.5	0.8	<0.5	2.4	NA	
	10/11/91	12.84	9.90	2.94	220	2.1	0.7	<0.5			NA 5100
	2/12/92	12.84	9.43	3.41					1.2	2500	5100
	5/11/92		•		110	0.8	<0.5	<0.5	1.3	2500	1400
		12.84	8.65	4.19	140	0.8	0.8	<0.5	2.5	3800^	NA
	9/1/92	12.84	9.86	2.98	190	3.0	15	0.5	4.5	2600^	NA

Page 3 of 5

Table 1

# SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANA Shell Service Station 1800 Powell Street Emeryville, California WIC#204-2495-0101



Well Number	Sampling Date	TOB (feet)	DTW (feet)	GWE	TPHg	B	T	E	, , , ,	irHq	TPHmo
11umber	Date	(teet)	(reet)	(feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
S-12	12/4/92	12.84	9.93	2.91	180	1.0	1.0	1.0			
0 12	2/17/93	12.84	8.08	4.76	350*	1.2	1.0	1.0	7.7	3900^	NA
	5/29/93	12.84	9.08	3.76		0.6	<0.5	0.5	5.5	2100^	NA
	8/11/93	12.84	9.35		290	2.0	1.6	4.4	6.0	2200	NA
	0/11/33	12.04	7.33	3.49	240	0.7	<0.5	<0.5	1.1	720	NA
S-13	11/17/89	12.59			1900	700	160	70	340	2000	5000
	1/4/90	12.59			2800	1400	130	10	500	NA	NA
	7/6/90	12.59	9.47	3.12	3100	1800	60	40	270	NA	. NA
•	10/24/90	12.59			3400	1500	28	28	250	NA NA	NA NA
	1/14/91	12.59			1900	830	15	<10	99	900	1600
	4/23/91	12.59			2900*	1100	20	30	140	770++	640
	7/8/91	12.59	10.38	2.21	1500	880	10	6.0	160	NA	NA
	10/11/91	12.59	10.78	1.81	480	830	15	<0.5	120	2400	
	2/12/92	12.59	10.48	2.11	1300	510	<10	<10	86	1300	4900
	5/11/92	12.59	9.48	3.11	1000	470	<5.0	<5.0	50		1300
	9/1/92	12.59	10.74	1.85	Free product	470	<b>\5.0</b>	<b>&lt;</b> 5.0	30	1300^	NA
	12/4/92	12.59	10.30	2.29	900	290	4.6	-0 E	20	0.400.4	274
	2/17/93	12.59	7.60	4.99	840*	310	3.5	<2.5	20	2400^	NA
	5/29/93	12.59	10.60	1.99^^	2100	1100	3.3 19	<2.5 50	27	1200^	NA
	8/11/93	12.59	10.58	2.01^^	900	230	16		350	4600	NA
	0, 11, 50	12.07	10.50	2.01	300	230	10	6.9	65	2300	NA
S-14	11/17/89	12.69			<250	3.0	<2.0	<2.0	<5	<400	3000
	1/4/90	12.69			<250	3.0	2.0	<2.0	<5	NA	NA
	4/23/91	12.69			1200	7.4	2.7	. 15	110	18000**	
	7/8/91	12.69	10.32	2.37	190	6.5	0.6	1.9	26	NA	<5000
	10/11/91	12.69	10.77	1.92	4900	7.0	1.2	<0.5	25	21000	NA -500
	2/12/92	12.69	10.40	2.29	370	4.6	<2.5	<2.5	25 26		<500
	5/11/92	12.69	9.66	3.03	660	2.9	<2.5 <2.5	<2.5	26 24	12000*	2500
	9/1/92	12.69	10.74	1.95	700	3.2	<2.5	<2.5	24 15	2200^	NA ·
	12/4/92	12.69	10.69	2.00	210	<0.5	<0.5	0.8	6.8	7900	NA
			-0.07		#1U	~0.U	~0.5	0.0	0.0	11000^	NA

Table 1

## SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS Shell Service Station

1800 Powell Street Emeryville, California WIC#204-2495-0101

Well	Sampling	TOB	DTW	GWE	TPHg	B	T	E	X	TPHd	TPHmo
Number	Date	(feet)	(feet)	(feet)	(ppb)						
S-14	2/17/93	12.69	9.69	3.00	130*	<0.5	<0.5	<0.5	4.4	5700^	NA
	5/29/93	12.69	10.42	2.27	770	<0.5	<0.5	<0.5	4.5	5200	NA
	8/11/93	12.69	10.54	2.15	920	<1.0	<1.0	1.6	17	8800	NA

### Notes:

TOB: Top of well box referenced to mean sea level

DTW: Depth to water

GWE: Ground water elevation. Ground water elevation data available for certain dates only.

TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified)
BTEX: Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8020
TPHd: Total petroleum hydrocarbons as diesel by EPA Method 8015 (modified)
TPHmo Total petroleum hydrocarbons as motor oil by EPA Method 8015 (modified)

NA: Not analyzed

\* Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.

Compounds detected within the chromatographic range of diesel with pattern typical of weathered diesel.
 Compounds detected within the chromatographic range of diesel appears to include gasoline compounds.

AA Ground water elevation not used to define contours on Figure 3. See text.