

97 JUN 24 PM 2:23



**Chevron**

June 23, 1997

6/23/97

Mid may be improved  
for the dg since  
MtBE is high and  
estuary is 1 block away  
Also a stochastic tipping  
systems completely diked  
walled; no releases etc.

Ms. Eva Chu  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L  
San Ramon, CA 94583  
P.O. Box 6004  
San Ramon, CA 94583-0904

**Marketing - Sales West**  
Phone 510 842 9500

Re: **Chevron Service Station #9-0290**  
**1802 Webster Street, Alameda, California**

36774 - Larry Seto

Dear Ms. Chu:

Enclosed is the Second Quarter Groundwater Monitoring Report for 1997, that were prepared by our consultant Blaine Tech Services Inc. for the above noted site. Ground water samples were collected and analyzed for TPH-g, TPH-d, BTEX and MtBE constituents.

Monitoring wells A-1, B-1, B-5, B-10, B-11, B-12 and B-13 are analyzed for the presence of TPH-g, TPH-d, BTEX and MtBE constituents; while monitoring well B-6 is only analyzed for the presence of the MtBE and TPH-d constituents. Depth to ground water varied from 4.31 feet to 5.66 feet below grade with a direction of flow north northwest.

All wells showed the presence of the constituents noted above. **Separate phase hydrocarbon was detected in monitoring well A-1 and approximately 0.05 gallons of separate phase hydrocarbon was bailed from this well.** The results of the TPH-d analysis in all of the wells, does not show the presence of diesel constituents but the presence of an unidentified hydrocarbon.

Chevron will continue to monitor the wells quarterly. If you have any questions, call me at (510) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**

Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

*[Faint handwritten notes]*

ENVIRONMENTAL  
PROTECTION

June 23, 1997

Ms. Eva Chu

Chevron Service Station # 9-0290

Page 2

97 JUN 24 PM 2:23

cc. Mr. Bill Scudder, Chevron

Ms. Louise Van De Deere  
Housing Authority of the City of Alameda  
701 Atlantic Avenue  
Alameda, CA 94501

**BLAINE**  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

ENVIRONMENTAL  
PROJECTS

ST. JUNE 30 PM 2:29

June 12, 1997

Phil Briggs  
Chevron U.S.A. Products Company  
P.O. Box 6004  
San Ramon, CA 94583-0904

### **2nd Quarter 1997 Monitoring at 9-0290**

Second Quarter 1997 Groundwater Monitoring at  
Chevron Service Station Number 9-0290  
1802 Webster Street  
Alameda, CA

Monitoring Performed on May 1, 1997

---

### **Groundwater Sampling Report 970501-H-1**

This report covers the routine quarterly monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table

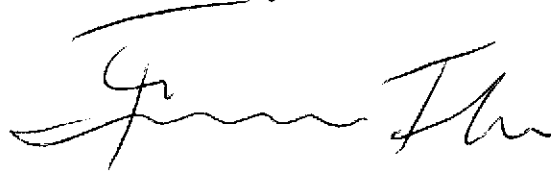
also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type 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. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

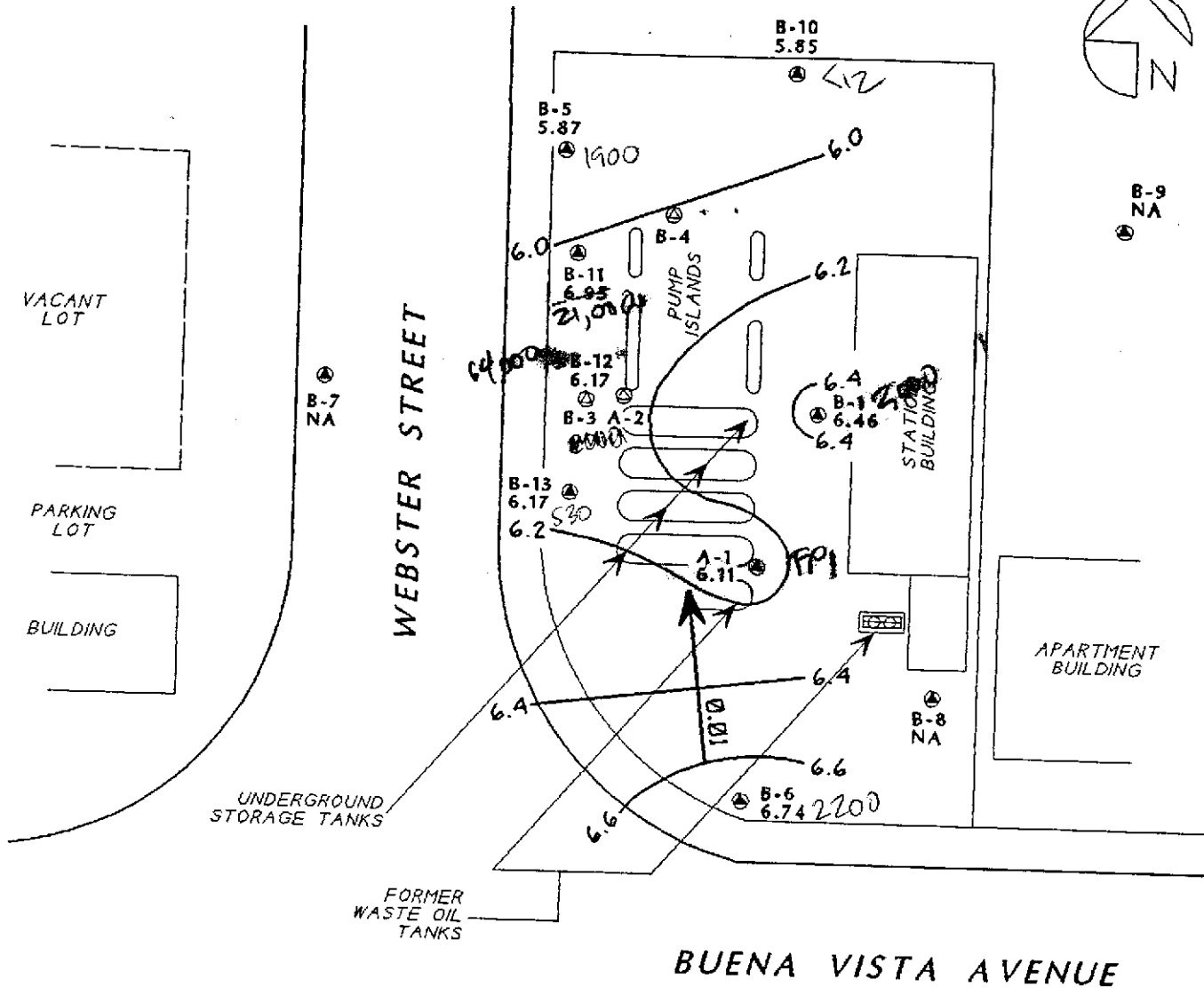
A handwritten signature in cursive script, appearing to read "Francis Thie".

Francis Thie  
Project Coordinator

FPT/cg

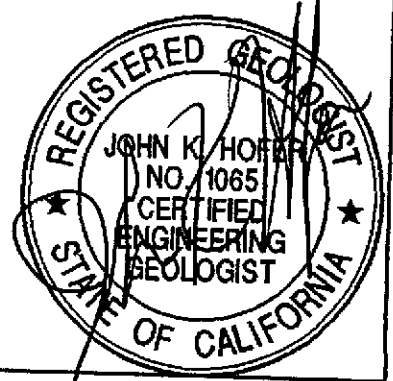
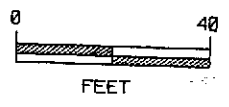
attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

# **Professional Engineering Appendix**



**EXPLANATION**

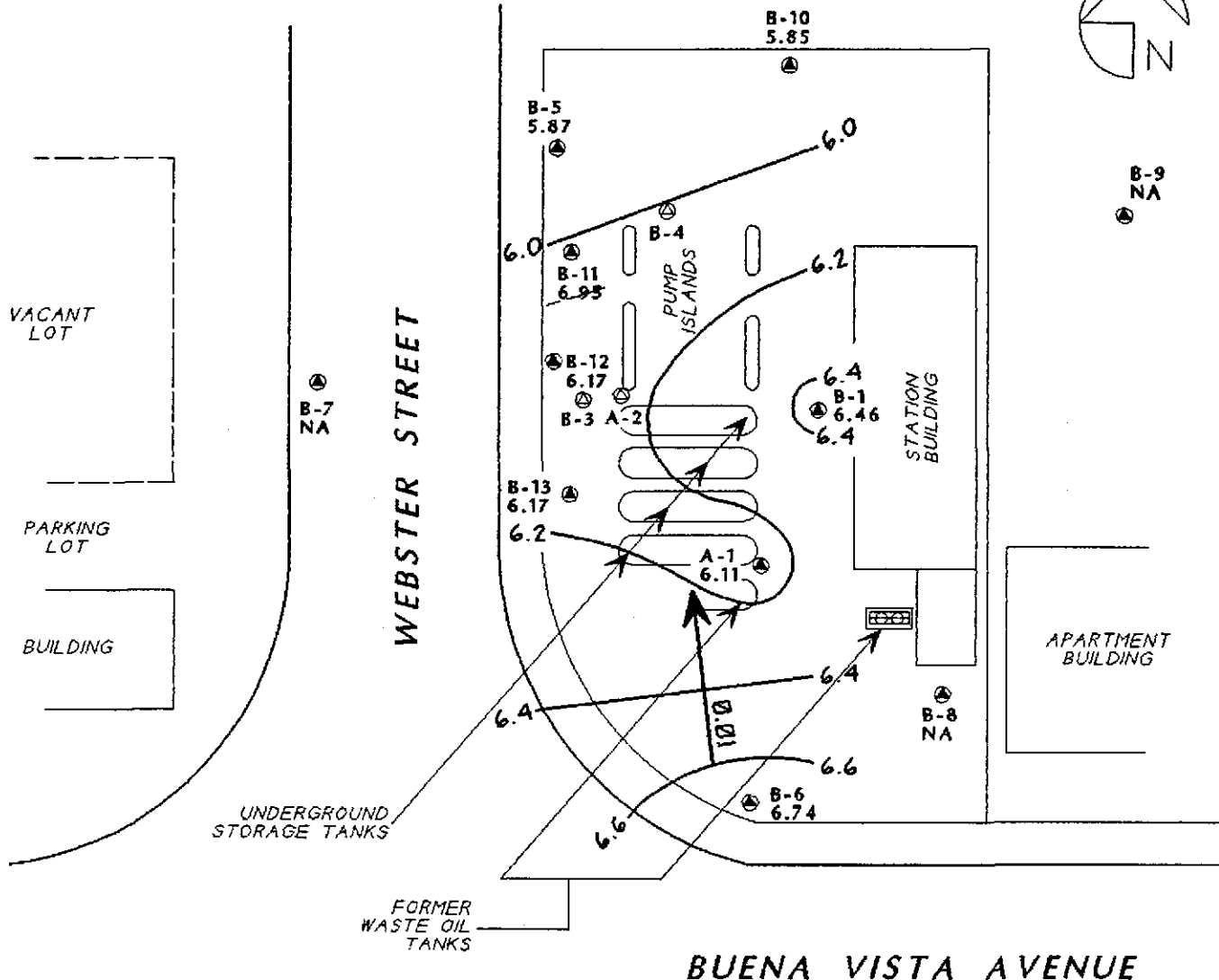
⊙ B-6	MONITORING WELL LOCATION AND WELL NUMBER
⊙ B-4	ABANDONED MONITORING WELL LOCATION AND WELL NUMBER
6.74	GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
NA	DATA NOT AVAILABLE
<del>6.95</del>	GROUND-WATER ELEVATION NOT USED FOR CONTOURING
— 6.6	GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
→ 0.01	APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



TITLE : GROUND-WATER ELEVATION CONTOUR MAP - MAY 1, 1997  
 LOCATION : CHEVRON SERVICE STATION No.: 9-0290 1802 WEBSTER STREET, ALAMEDA, CALIFORNIA  
 SOURCE : CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

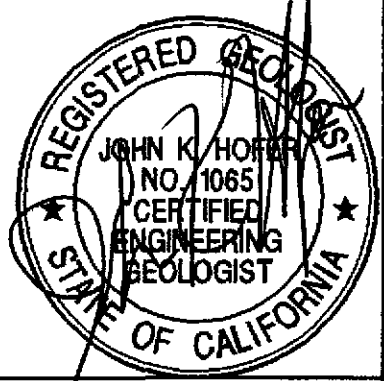
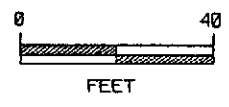


GEOCONSULTANTS, INC  
 SAN JOSE, CALIFORNIA  
 Project No. G758-09  
 DRAWING NO. CHEVRON-D-90290-1050157



EXPLANATION	
● B-6	MONITORING WELL LOCATION AND WELL NUMBER
⊙ B-4	ABANDONED MONITORING WELL LOCATION AND WELL NUMBER
6.74	GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
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B.P. STATION



TITLE : GROUND-WATER ELEVATION CONTOUR MAP - MAY 1, 1997  
 LOCATION : CHEVRON SERVICE STATION No.: 9-0290 1802 WEBSTER STREET, ALAMEDA, CALIFORNIA  
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GEOCONSULTANTS, INC  
 SAN JOSE, CALIFORNIA  
 Project No. G758-09  
 DRAWING NO. CHEVRON-D-190290-W050197

# **Table of Well Data and Analytical Results**



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons			Analytical results are in parts per billion (ppb)								
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>A-1</b>															
09/20/91	8.13	0.48	9.23	1.58	--	--	--	--	--	--	--	--	--	--	--
10/09/91	8.13	1.46	6.67	0.00	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.13	1.43	7.28	0.58	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.13	1.36	7.42	0.65	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.13	1.49	7.14	0.50	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.13	1.50	7.14	0.51	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.13	1.47	7.19	0.53	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.13	1.28	7.28	0.54	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.13	1.29	7.33	0.49	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.13	1.73	6.76	0.36	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.13	2.21	6.29	0.37	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.13	2.15	6.43	0.45	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.13	2.21	6.30	0.38	--	--	--	--	--	--	--	--	--	--	--
03/09/92	8.13	3.14	5.30	0.31	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.13	2.83	5.37	0.07	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.13	2.39	6.14	0.40	--	--	--	--	--	--	--	--	--	--	--
01/06/93	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/03/93	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.56	6.19	5.85	0.60	--	--	--	--	--	--	--	--	--	--	--
06/11/93	11.56	--	--	--	2.00	2.00	--	--	--	--	--	--	--	--	--
06/15/93	11.56	--	--	--	0.13	2.13	--	--	--	--	--	--	--	--	--
06/18/93	11.56	--	--	--	0.13	2.26	--	--	--	--	--	--	--	--	--
06/22/93	11.56	--	--	--	0.50	2.76	--	--	--	--	--	--	--	--	--
06/29/93	11.56	--	--	--	--	2.76	--	--	--	--	--	--	--	--	--
07/09/93	11.56	--	--	--	--	2.76	--	--	--	--	--	--	--	--	--
07/15/93	11.56	--	--	--	--	2.76	--	--	--	--	--	--	--	--	--
07/19/93	11.56	5.54	6.23	0.26	2.00	4.76	--	--	--	--	--	--	--	--	--
07/20/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
07/27/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
08/06/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
08/10/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
08/16/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--

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## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TOG	TPH- Diesel	MTBE
<b>A-1 (CONT'D)</b>															
09/16/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
09/24/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
10/01/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
10/07/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
10/13/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
10/19/93	11.56	--	--	0.10	--	4.76	--	--	--	--	--	--	--	--	--
10/20/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
10/28/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
11/12/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
11/19/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
11/30/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
12/10/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
12/16/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
12/23/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
12/29/93	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
01/03/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
01/17/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
01/26/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
02/07/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
02/11/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
02/18/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
02/25/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
03/04/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
03/11/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
03/16/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
03/25/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
04/01/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
08/18/94	11.56	--	--	--	--	4.76	--	--	--	--	--	--	--	--	--
11/30/94	11.56	--	--	--	2.00	6.76	--	--	--	--	--	--	--	--	--
02/15/95	11.56	--	4.79	--	--	6.76	--	--	--	--	--	--	--	--	--
05/01/95	11.56	--	--	--	--	6.76	--	--	--	--	--	--	--	--	--
08/04/95	11.56	--	--	--	--	6.76	--	--	--	--	--	--	--	--	--
11/29/95	11.56	5.24	6.38	0.08	0.03	6.79	--	--	--	--	--	--	--	--	--

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## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TOG	TPH- Diesel	MTBE
<b>A-1 (CONT'D)</b>															
02/08/96	11.56	7.03	4.57	0.05	--	6.79	--	--	--	--	--	--	--	--	--
05/08/96	11.56	6.29	5.49	0.28	--	6.79	--	--	--	--	--	--	--	--	--
08/23/96	11.56	5.31	6.43	0.22	--	6.79	--	--	--	--	--	--	--	--	--
12/12/96	11.56	6.37	5.53	0.42	0.05	6.84	--	--	--	--	--	--	--	--	--
02/10/97	11.56	7.25	4.45	0.17	0.08	6.92	--	--	--	--	--	--	--	--	--
05/01/97	11.56	6.11	5.51	0.08	0.05	6.97	--	--	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>A-2</b>															
09/20/91	8.00	0.27	7.73	0.00	--	--	--	8100	860	14	110	53	--	5100	--
10/09/91	8.00	1.39	6.61	0.00	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.00	1.34	6.66	0.00	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.00	1.29	6.80	0.09	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.00	1.45	6.63	0.15	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.00	1.45	6.64	0.21	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.00	1.38	6.81	0.19	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.00	1.31	6.93	0.24	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.00	1.24	6.97	0.15	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.00	1.70	6.54	0.24	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.00	2.16	5.92	0.08	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.00	2.00	6.01	0.10	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.00	2.20	6.06	0.26	--	--	--	--	--	--	--	--	--	--	--
03/09/92	8.00	3.11	4.93	0.04	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.00	2.80	5.20	<0.01	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.00	2.36	5.66	0.02	--	--	--	--	--	--	--	--	--	--	--
01/06/93	8.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/03/93	8.00	3.20	4.98	0.22	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.46	6.24	5.36	0.18	--	--	--	--	--	--	--	--	--	--	--
06/11/93	11.46	--	--	--	0.13	1.00	--	--	--	--	--	--	--	--	--
06/15/93	11.46	--	--	--	0.13	1.13	--	--	--	--	--	--	--	--	--
06/18/93	11.46	--	--	--	0.26	1.39	--	--	--	--	--	--	--	--	--
06/22/93	11.46	--	--	--	0.50	1.89	--	--	--	--	--	--	--	--	--
06/29/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
07/09/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
07/15/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
07/19/93	11.46	5.53	6.79	1.07	--	1.89	--	--	--	--	--	--	--	--	--
07/20/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
07/27/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
08/06/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
08/10/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
08/16/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--

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## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TOG	TPH- Diesel	MTBE
<b>A-2 (CONT'D)</b>															
09/16/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
09/24/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
10/01/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
10/07/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
10/13/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
10/19/93	11.46	6.23	6.36	1.41	--	1.89	--	--	--	--	--	--	--	--	--
10/20/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
10/28/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
11/12/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
11/19/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
11/30/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
12/10/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
12/16/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
12/23/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
12/29/93	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
01/03/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
01/17/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
01/26/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
02/07/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
02/11/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
02/18/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
02/25/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
03/04/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
03/11/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
03/16/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
03/25/94	11.46	--	--	--	--	1.89	--	--	--	--	--	--	--	--	--
04/01/94	11.46	--	--	--	--	1.89	Destroyed	--	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-1</b>															
04/23/93	12.12	6.19	5.93	--	--	--	--	13,000	4900	22	250	47	--	8300	--
07/19/93	12.12	5.46	6.66	--	--	--	--	3300	1200	16	24	<30	--	1600	--
10/19/93	12.12	5.04	7.08	--	--	--	--	2300	730	18	14	31	--	550	--
01/17/94	12.12	5.39	6.73	--	--	--	--	22,000	6500	170	210	430	--	<50	--
08/18/94	12.12	5.27	6.85	--	--	--	Inaccessible	--	--	--	--	--	--	--	--
11/30/94	12.12	6.11	6.01	--	--	--	--	1500	250	17	7.5	19	<5.0*	3200**	--
02/15/95	12.12	6.75	5.37	--	--	--	--	1000	160	<2.0	4.6	2.6	--	1300**	--
05/01/95	12.12	7.00	5.12	--	--	--	--	140	20	0.52	2.0	0.67	--	2600***	--
08/04/95	12.12	6.62	5.50	--	--	--	--	6700	1400	<20	<20	<20	--	4900***	--
11/29/95	12.12	6.27	5.85	--	--	--	--	9200	2200	<25	<25	25	--	5000***	8300
02/08/96	12.12	8.12	4.00	--	--	--	--	1500	190	<5.0	<5.0	<5.0	--	1300***	2300
05/08/96	12.12	7.32	4.80	--	--	--	--	3700	650	<10	24	16	--	2900***	2300
08/23/96	12.12	6.58	5.54	--	--	--	--	3200	500	<20	<20	<20	--	2600	4900
12/12/96	12.12	7.22	4.90	--	--	--	--	2500	380	<25	<25	25	--	3400+	8600
02/10/97	12.12	7.53	4.59	--	--	--	--	2200	270	11	8.8	13	--	2100***	3400
05/01/97	12.12	6.46	5.66	--	--	--	--	1200	70	5.8	<5.0	7.2	--	1300***	2000

\* Analytical values are in parts per million (ppm).

\*\* Chromatogram pattern indicates a non-diesel mix.

\*\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

+ Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-3</b>															
09/20/91	8.01	1.08	6.94	0.01	--	--	--	--	--	--	--	--	--	--	--
10/09/91	8.01	1.66	6.35	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.01	1.57	6.44	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.01	1.53	6.84	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.01	1.70	6.31	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.01	1.69	6.32	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.01	1.62	6.39	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.01	1.57	6.44	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.01	1.19	6.82	<0.01	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.01	1.64	6.37	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.01	2.07	5.94	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.01	2.02	5.99	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.01	2.19	5.82	<0.01	--	--	--	--	--	--	--	--	--	--	--
03/09/92	8.01	2.91	5.10	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.01	2.65	5.36	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.01	2.29	5.72	--	--	--	--	6200	550	58	13	51	<5000	250	--
01/06/93	8.01	2.51	5.50	--	--	--	Sheen	5400	490	54	51	82	--	10,000	--
02/03/93	8.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.42	6.10	5.32	--	--	--	--	18,000	540	69	47	120	--	6400	--
07/29/93	11.42	5.48	5.94	--	--	--	--	40,000	780	69	49	150	--	4000	--
10/19/93	11.42	5.10	6.32	--	--	--	--	20,000	520	37	43	100	--	1500	--
01/17/94	11.42	4.47	6.95	--	--	--	Destroyed	3900	430	32	29	82	--	<50	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons			Analytical results are in parts per billion (ppb)								
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-4</b>															
09/20/91	8.04	1.22	6.82	0.01	--	--	--	19,000	710	160	650	2000	--	1400	--
10/09/91	8.04	1.41	6.63	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.04	1.20	6.84	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.04	1.17	6.87	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.04	1.34	6.70	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.04	1.31	6.73	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.04	1.21	6.83	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.04	1.20	6.84	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.04	1.17	6.87	<0.01	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.04	1.58	6.46	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.04	2.13	5.91	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.04	2.09	5.95	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.04	2.26	5.78	<0.01	--	--	--	15,000	920	75	520	940	--	860	--
03/09/92	8.04	2.95	5.09	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.04	2.65	5.39	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.04	2.45	5.59	--	--	--	--	19,000	2000	97	560	1200	<5000	<50	--
01/06/93	8.04	2.54	5.50	--	--	--	Sheen	19,000	2000	89	490	740	--	2700	--
02/03/93	8.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.46	6.07	5.39	--	--	--	--	5700	2400	75	380	580	--	2300	--
07/19/93	11.46	5.33	6.13	--	--	--	--	19,000	2400	140	440	620	--	2400	--
10/19/93	11.46	4.95	6.51	--	--	--	--	13,000	1200	84	290	530	--	2100	--
01/17/94	11.46	5.28	6.18	--	--	--	Destroyed	11,000	1900	63	170	290	--	<50	--



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-5</b>															
09/20/91	7.73	2.20	5.53	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
10/09/91	7.73	2.42	5.31	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	7.73	2.09	5.64	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	7.73	2.05	5.68	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	7.73	2.24	5.49	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	7.73	2.19	5.54	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	7.73	2.10	5.63	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	7.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	7.73	2.05	5.68	--	--	--	--	--	--	--	--	--	--	--	--
12/30/91	7.73	2.54	5.19	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	7.73	3.07	4.65	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	7.73	3.03	4.70	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	7.73	3.38	4.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
03/09/92	7.73	3.68	4.05	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	7.73	3.30	4.43	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	7.73	3.94	3.79	--	--	--	--	390	39	1.9	11	24	<5000	--	--
01/06/93	7.73	3.39	4.44	--	--	--	Sheen	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/03/93	7.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	10.18	5.86	4.32	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50	--
07/19/93	10.18	5.15	5.03	--	--	--	--	54	<0.5	0.7	<0.5	<1.5	--	<50	--
10/19/93	10.18	5.08	5.10	--	--	--	--	<50	2.0	4.1	0.6	3.5	--	<50	--
01/07/94	10.18	5.32	4.86	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	10.18	5.04	5.14	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	10.18	5.73	4.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	140*	--
02/15/95	10.18	6.03	4.15	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	170*	--
05/01/95	10.18	5.75	4.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	190**	--
08/04/95	10.18	5.22	4.96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	250**	--
11/29/95	10.18	4.97	5.21	--	--	--	--	140	1.5	<0.5	1.1	<0.5	--	330**	800
02/08/96	10.18	6.38	3.80	--	--	--	--	<200	2.1	<2.0	<2.0	<2.0	--	250**	1100
05/08/96	10.18	5.78	4.40	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	350**	1400
08/23/96	10.18	5.19	4.99	--	--	--	--	250	6.4	2.1	2.1	4.3	--	990	9300
12/12/96	10.18	5.90	4.28	--	--	--	--	<1000	<10	<10	<10	<10	--	430**	6700
02/10/97	10.18	6.55	3.63	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	340**	930
05/01/97	10.18	5.87	4.31	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	290**	1900

\* Chromatogram pattern indicates a non-diesel mix.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons			Analytical results are in parts per billion (ppb)								
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-6</b>															
09/20/91	8.55	1.70	6.85	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
10/09/91	8.55	1.72	6.83	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.55	1.65	6.90	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.55	1.62	6.93	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.55	1.77	6.78	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.55	1.74	6.81	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.55	1.67	6.88	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.55	1.60	6.95	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.55	1.41	7.14	--	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.55	2.05	6.50	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.55	2.36	6.19	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.55	2.28	6.27	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.55	2.43	6.12	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
03/09/92	8.55	3.27	5.28	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.55	3.07	5.48	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.55	2.65	5.90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	<50	--
01/06/93	8.55	2.76	5.79	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/03/93	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.97	6.70	5.27	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50	--
07/19/93	11.97	5.06	6.91	--	--	--	--	74	<0.5	<0.5	<0.5	<1.5	--	<50	--
10/19/93	11.97	5.49	6.48	--	--	--	--	<50	<0.5	0.5	<0.5	2.2	--	<50	--
01/07/94	11.97	5.79	6.18	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	11.97	5.77	6.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	11.97	6.52	5.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	230*	--
02/15/95	11.97	7.27	4.70	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	130*	--
05/01/95	11.97	6.94	5.03	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	97**	--
08/04/95	11.97	6.15	5.82	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	350**	--
11/29/95	11.97	5.97	6.00	--	--	--	--	--	--	--	--	--	--	200**	--
02/08/96	11.97	7.27	4.70	--	--	--	--	--	--	--	--	--	--	210**	--
05/08/96	11.97	6.74	5.23	--	--	--	--	--	--	--	--	--	--	250**	--
08/23/96	11.97	5.92	6.05	--	--	--	--	--	--	--	--	--	--	310**	--
12/12/96	11.97	6.65	5.32	--	--	--	--	--	--	--	--	--	--	300**	--
02/10/97	11.97	7.60	4.37	--	--	--	--	--	--	--	--	--	--	130**	360
05/01/97	11.97	6.74	5.23	--	--	--	--	--	--	--	--	--	--	260**	2200

\* Chromatogram pattern indicates a non-diesel mix.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons				Analytical results are in parts per billion (ppb)							
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-7</b>															
04/23/93	10.54	6.02	4.52	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--	--
07/19/93	10.54	5.50	5.04	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	--
10/19/93	10.54	5.14	5.40	--	--	--	--	<50	3.1	0.5	<0.5	0.8	--	<50	--
01/07/94	10.54	5.35	5.19	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	10.54	5.28	5.26	--	--	--	--	<50	<0.5	<0.5	<0.5	1.1	--	<50	--
11/30/94	10.54	5.96	4.58	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/15/95	10.54	6.32	4.22	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
05/01/95	10.54	6.04	4.50	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	53**	--
08/04/95	10.54	5.56	4.98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--

NO LONGER MONITORED OR SAMPLED

### B-8

04/23/93	11.99	6.63	5.36	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--	--
07/19/93	11.99	5.77	6.22	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	--
10/19/93	11.99	--	--	--	--	--	Dry	--	--	--	--	--	--	--	--
01/07/94	11.99	5.69	6.30	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	11.99	5.56	6.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	11.99	6.53	5.46	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	120*	--
02/15/95	11.99	7.27	4.72	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	120*	--
05/01/95	11.99	6.99	5.00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	51**	--
08/04/95	11.99	6.07	5.92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--

NO LONGER MONITORED OR SAMPLED

\* Chromatogram pattern indicates a non-diesel mix.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons			Analytical results are in parts per billion (ppb)								
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-9</b>															
04/23/93	10.70	6.14	4.56	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--	--
07/19/93	10.70	5.25	5.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	--
10/19/93	10.70	4.81	5.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
01/07/94	10.70	5.29	5.41	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	10.70	5.15	5.55	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	10.70	6.35	4.35	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	60*	--
02/15/95	10.70	7.05	3.65	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
05/01/95	10.70	6.41	4.29	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/04/95	10.70	5.50	5.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
NO LONGER MONITORED OR SAMPLED															
<b>B-10</b>															
11/29/95	11.42	4.91	6.51	--	--	--	--	1700	95	<2.5	69	170	--	900*	22
02/08/96	11.42	6.87	4.55	--	--	--	--	230	31	<0.5	7.2	6.2	--	650*	10
05/08/96	11.42	5.87	5.55	--	--	--	--	260	61	0.59	37	23	--	570*	20
08/23/96	11.42	5.23	6.19	--	--	--	--	320	34	<0.5	29	15	--	700*	8.3
12/12/96	11.42	5.59	5.83	--	--	--	--	1600	94	<2.5	110	27	--	990*	<12
02/10/97	11.42	6.84	4.58	--	--	--	--	2100	230	5.6	130	83	--	530*	<12
05/01/97	11.42	5.85	5.57	--	--	--	--	2300	110	<2.5	140	49	--	770*	<12
<b>B-11</b>															
11/29/95	11.98	6.08	5.90	--	--	--	--	2800	38	<10	26	48	--	1400*	21,000
02/08/96	11.98	7.54	4.44	--	--	--	--	<5000	<50	<50	<50	<50	--	1100*	38,000
05/08/96	11.98	6.98	5.00	--	--	--	--	4100	110	<10	31	25	--	1300*	17,000
08/23/96	11.98	6.37	5.61	--	--	--	--	3400	160	12	41	13	--	820*	4000
12/12/96	11.98	6.85	5.13	--	--	--	--	3700	120	12	<5.0	30	--	1300*	2200
02/10/97	11.98	7.91	4.07	--	--	--	--	2300	56	17	<5.0	20	--	810*	4700
05/01/97	11.98	6.95	5.03	--	--	--	--	<5000	<50	<50	<50	<50	--	820*	21,000

\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-12</b>															
11/29/95	11.16	5.15	6.01	--	--	--	--	1100	10	<10	<10	<10	--	1800*	37,000
02/08/96	11.16	6.56	4.60	--	--	--	--	<20,000	<200	<200	<200	<200	--	1800*	88,000
05/08/96	11.16	6.08	5.08	--	--	--	--	<25,000	<250	<250	<250	<250	--	1800*	88,000
08/23/96	11.16	5.51	5.65	--	--	--	--	630	16	<5.0	<5.0	<5.0	--	1500*	420
12/12/96	11.16	6.05	5.11	--	--	--	--	<25,000	<250	<250	<250	<250	--	1200*	54,000
02/10/97	11.16	7.05	4.11	--	--	--	--	<20,000	<200	<200	<200	<200	--	1200*	65,000
02/10/97	11.16	7.05	4.11	--	--	--	EPA 8240	--	<500	<500	<500	<500	--	--	--
05/01/97	11.16	6.17	4.99	--	--	--	--	<12,500	<125	<125	<125	<125	--	1100*	64,000
<b>B-13</b>															
11/29/95	11.17	5.26	5.91	--	--	--	--	1800	19	<5.0	5.5	<5.0	--	3400*	7400
02/08/96	11.17	6.72	4.45	--	--	--	--	910	12	1.3	2.0	1.9	--	450*	77
05/08/96	11.17	6.20	4.97	--	--	--	--	140	1.9	<0.5	0.88	2.0	--	560*	98
08/23/96	11.17	5.54	5.63	--	--	--	--	1300	<10	<10	<10	<10	--	1300*	450
12/12/96	11.17	5.91	5.26	--	--	--	--	2600	29	5.4	9.40	6.3	--	1300*	230
02/10/97	11.17	7.05	4.12	--	--	--	--	670	<0.5	6.7	2.6	5.6	--	290*	28
05/01/97	11.17	6.17	5.00	--	--	--	--	920	8.5	4.6	2.1	6.1	--	480*	530

\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons			Analytical results are in parts per billion (ppb)								
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>TRIP BLANK</b>															
01/06/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/23/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/19/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/19/93	--	--	--	--	--	--	--	<50	<0.5	0.5	<0.5	<0.5	--	--	--
01/17/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/18/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/15/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/01/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/04/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/29/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
02/08/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
08/23/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/12/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
02/10/97	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
05/01/97	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 1, 1994.  
 Earlier field data and analytical results are drawn from the September 27, 1994 Groundwater Technology, Inc. report.

**ABBREVIATIONS:**

- TPH = Total Petroleum Hydrocarbons
- SPH = Separate-Phase Hydrocarbons
- TOG = Total Oil and Grease
- MTBE = Methyl t-Butyl Ether

# Analytical Appendix



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-01	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/07/97 Analyzed: 05/08/97 Reported: 05/09/97
Attention: Fran Thle		

QC Batch Number: GC0507970HBPEXA  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	1300 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 101

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-01	Sampled: 05/01/97 Received: 05/02/97  Analyzed: 05/07/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC050797BTEX18A  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	1200
Methyl t-Butyl Ether	25	2000
Benzene	5.0	70
Toluene	5.0	5.8
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	7.2
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-02	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/07/97 Analyzed: 05/08/97 Reported: 05/09/97
--	--	--

QC Batch Number: GC0507970HBPEXA  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	290 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 82

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-02	Sampled: 05/01/97 Received: 05/02/97  Analyzed: 05/07/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC050797BTEX18A  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	N.D.
Methyl t-Butyl Ether	25	1900
Benzene	5.0	N.D.
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	91

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Renner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-03	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/07/97 Analyzed: 05/08/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC0507970HBPEXA  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	260 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 86

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-6 Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9705114-03	Sampled: 05/01/97 Received: 05/02/97  Analyzed: 05/07/97 Reported: 05/09/97
Attention: Fran Thie		

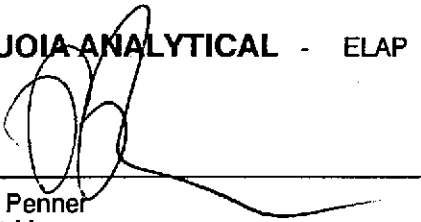
QC Batch Number: GC050797BTEX06A  
Instrument ID: GCHP06

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	25	2200
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	76

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**



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Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-10 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-04	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/08/97 Analyzed: 05/08/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC0508970HBPEXA  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	770 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 116

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-04	Sampled: 05/01/97 Received: 05/02/97  Analyzed: 05/07/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC050797BTEX01A  
Instrument ID: GCHP01

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	2300
Methyl t-Butyl Ether	12	N.D.
Benzene	2.5	110
Toluene	2.5	N.D.
Ethyl Benzene	2.5	140
Xylenes (Total)	2.5	49
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-11 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-05	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/08/97 Analyzed: 05/08/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC0508970HBPEXA  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	820 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 101

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-11 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-05	Sampled: 05/01/97 Received: 05/02/97  Analyzed: 05/07/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC050797BTEX06A  
Instrument ID: GCHP06

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	N.D.
<b>Methyl t-Butyl Ether</b>	<b>250</b>	<b>21000</b>
Benzene	50	N.D.
Toluene	50	N.D.
Ethyl Benzene	50	N.D.
Xylenes (Total)	50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	74

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-12 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-06	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/08/97 Analyzed: 05/08/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC0508970HBPEXA  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	1100 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 142

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-12 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-06	Sampled: 05/01/97 Received: 05/02/97  Analyzed: 05/07/97 Reported: 05/09/97
--	---	---

QC Batch Number: GC050797BTEX06A  
Instrument ID: GCHP06

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	12500	N.D.
<b>Methyl t-Butyl Ether</b>	<b>625</b>	<b>64000</b>
Benzene	125	N.D.
Toluene	125	N.D.
Ethyl Benzene	125	N.D.
Xylenes (Total)	125	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	72

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-13 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9705114-07	Sampled: 05/01/97 Received: 05/02/97 Extracted: 05/08/97 Analyzed: 05/08/97 Reported: 05/09/97
Attention: Fran Thie		

QC Batch Number: GC0508970HBPEXA  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	480 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 114

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: B-13 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-07	Sampled: 05/01/97 Received: 05/02/97 Analyzed: 05/07/97 Reported: 05/09/97
Attention: Fran Thie		

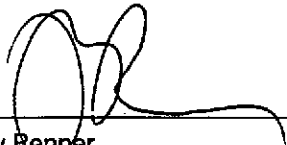
QC Batch Number: GC050797BTEX06A  
Instrument ID: GCHP06

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	920
Methyl t-Butyl Ether	6.2	530
Benzene	1.2	8.5
Toluene	1.2	4.6
Ethyl Benzene	1.2	2.1
Xylenes (Total)	1.2	6.1
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	98

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**




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Peggy Renner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/970501-H1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705114-08	Sampled: 05/01/97 Received: 05/02/97 Analyzed: 05/06/97 Reported: 05/09/97
Attention: Fran Thie		

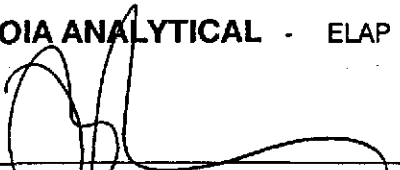
QC Batch Number: GC050697BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	76

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Proj. ID: Chevron 9-0290/970501-H1

Received: 05/02/97

Lab Proj. ID: 9705114

Reported: 05/09/97

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 22 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH Note: Sample 9705114-01 was diluted 10-fold.  
Sample 9705114-02 was diluted 10-fold.  
Sample 9705114-04 was diluted 5-fold.  
Sample 9705114-05 was diluted 100-fold.  
Sample 9705114-06 was diluted 250-fold.  
Sample 9705114-07 was diluted 2.5-fold.

MTBE Note: Sample 9705114-03 was diluted 10-fold.

SEQUOIA ANALYTICAL

  
Peggy Penner  
Project Manager





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Project ID: Chevron 9-0290 / 970501-H1 Matrix: Liquid Work Order #: 9705114 -01-02	Reported: May 15, 1997
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**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC050797BTEX18A	GC050797BTEX18A	GC050797BTEX18A	GC050797BTEX18A	GC050797BTEX18A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970511802	970511802	970511802	970511802	970511802
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Analyzed Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.7	8.8	8.7	26	55
MS % Recovery:	87	88	87	87	92
Dup. Result:	9.1	9.1	9.0	27	61
MSD % Recov.:	91	91	90	90	102
RPD:	4.5	3.4	3.4	3.8	10
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK050797	BLK050797	BLK050797	BLK050797	BLK050797
Prepared Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Analyzed Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.0	9.0	8.9	27	60
LCS % Recov.:	90	90	89	90	100

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**Please Note:**  
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL**

*[Signature]*  
Peggy Penner  
Project Manager







Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-0290 / 970501-H1  
Matrix: Liquid

Work Order #: 9705114-03, 06-07

Reported: May 15, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC050797BTEX06A	GC050797BTEX06A	GC050797BTEX06A	GC050797BTEX06A	GC050797BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970511801	970511801	970511801	970511801	970511801
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Analyzed Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.3	8.4	8.3	24	72
MS % Recovery:	83	84	83	80	120
Dup. Result:	8.1	8.0	8.1	24	71
MSD % Recov.:	81	80	81	80	118
RPD:	2.4	4.9	2.4	0.0	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK050797	BLK050797	BLK050797	BLK050797	BLK050797
Prepared Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Analyzed Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.6	8.6	8.6	25	72
LCS % Recov.:	86	86	86	83	120

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9705114.BLA <2>





Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-0290 / 970501-H1  
Matrix: Liquid

Work Order #: 9705114-04-05

Reported: May 15, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC050597BTEX01A	GC050597BTEX01A	GC050597BTEX01A	GC050597BTEX01A	GC050797BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970511802	970511802	970511802	970511802	970511802
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Analyzed Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	9.6	9.4	28	61
MS % Recovery:	100	96	94	93	102
Dup. Result:	11	10	9.9	29	67
MSD % Recov.:	110	100	99	97	112
RPD:	9.5	4.1	5.2	3.5	9.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK050797	BLK050797	BLK050797	BLK050797	BLK050797
Prepared Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Analyzed Date:	5/7/97	5/7/97	5/7/97	5/7/97	5/7/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	9.6	9.4	28	62
LCS % Recov.:	100	96	94	93	103

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**SEQUOIA ANALYTICAL**  
  
Peggy Fenner  
Project Manager

**Please Note:**  
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9705114.BLA <3>





Blaine Tech Services, Inc.  
 1680 Rogers Avenue  
 San Jose, CA 95112  
 Attention: Fran Thie

Client Project ID: Chevron 9-0290 / 970501-H1  
 Matrix: Liquid

Work Order #: 9705114-08

Reported: May 15, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC050697BTEX21A	GC050697BTEX21A	GC050697BTEX21A	GC050697BTEX21A	GC050697BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9704D1402	9704D1402	9704D1402	9704D1402	9704D1402
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/6/97	5/6/97	5/6/97	5/6/97	5/6/97
Analyzed Date:	5/6/97	5/6/97	5/6/97	5/6/97	5/6/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.4	9.4	9.5	29	69
MS % Recovery:	94	94	95	97	115
Dup. Result:	9.6	9.6	9.7	29	70
MSD % Recov.:	96	96	97	97	117
RPD:	2.1	2.1	2.1	0.0	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK050697	BLK050697	BLK050697	BLK050697	BLK050697
Prepared Date:	5/6/97	5/6/97	5/6/97	5/6/97	5/6/97
Analyzed Date:	5/6/97	5/6/97	5/6/97	5/6/97	5/6/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.9	9.9	10	30	65
LCS % Recov.:	99	99	100	100	108

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL

Peggy Renner  
 Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS= Matrix Spike, MSD=MS Duplicate, RPD= Relative % Difference

9705114.BLA <4>





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Project ID: Chevron 9-0290 / 970501-H1 Matrix: Liquid Work Order #: 9705114-01-03	Reported: May 15, 1997
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**QUALITY CONTROL DATA REPORT**

<b>Analyte:</b> Diesel
<b>QC Batch#:</b> GC0507970HBPEXA
<b>Analy. Method:</b> EPA 8015M
<b>Prep. Method:</b> EPA 3510

**Analyst:** G. Fish  
**MS/MSD #:** 970511803  
**Sample Conc.:** N.D.  
**Prepared Date:** 5/7/97  
**Analyzed Date:** 5/7/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**Result:** 830  
**MS % Recovery:** 83

**Dup. Result:** 750  
**MSD % Recov.:** 75

**RPD:** 10  
**RPD Limit:** 0-50

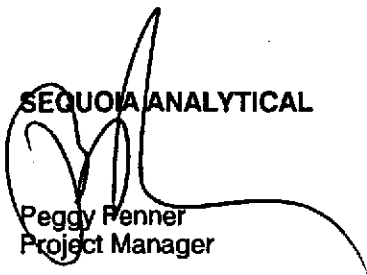
**LCS #:** BLK050797

**Prepared Date:** 5/7/97  
**Analyzed Date:** 5/7/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**LCS Result:** 880  
**LCS % Recov.:** 88

<b>MS/MSD</b>	50-150
<b>LCS</b>	60-140
<b>Control Limits</b>	

**SEQUOIA ANALYTICAL**



Peggy Fenner  
Project Manager

**Please Note:**  
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9705114.BLA <5>





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Project ID: Chevron 9-0290 / 970501-H1 Matrix: Liquid Work Order #: 9705114-04-07	Reported: May 15, 1997
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**QUALITY CONTROL DATA REPORT**

<b>Analyte:</b> Diesel
<b>QC Batch#:</b> GC0508970HBPEXA
<b>Analy. Method:</b> EPA 8015M
<b>Prep. Method:</b> EPA 3510

**Analyst:** G. Fish  
**MS/MSD #:** 970511404  
**Sample Conc.:** 770  
**Prepared Date:** 5/8/97  
**Analyzed Date:** 5/8/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**Result:** 1300  
**MS % Recovery:** 53

**Dup. Result:** 1600  
**MSD % Recov.:** 83

**RPD:** 21  
**RPD Limit:** 0-50

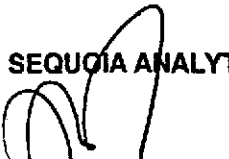
**LCS #:** BLK050897

**Prepared Date:** 5/8/97  
**Analyzed Date:** 5/8/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**LCS Result:** 840  
**LCS % Recov.:** 84

<b>MS/MSD</b>	50-150
<b>LCS</b>	60-140
<b>Control Limits</b>	

**SEQUOIA ANALYTICAL**



Peggy Penner  
Project Manager

**Please Note:**  
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\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9705114.BLA <6>



Fax copy of Lab Report and COC to Chevron Contact:  Yes  No

# Chain-of-Custody-Record

<p>Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591</p>	<p>Chevron Facility Number <u>9-0290</u>          Facility Address <u>1802 Webster St., Alameda, CA</u>          Consultant Project Number <u>770501-H1</u>          Consultant Name <u>Blaine Tech Services, Inc.</u>          Address <u>1680 Rogers Ave., San Jose, CA 95112</u>          Project Contact (Name) <u>Fran Thie</u>          (Phone) <u>(408)573-0555</u> (Fax Number) <u>(408)573-7771</u></p>	<p>Chevron Contact (Name) <u>Phil Briggs</u>          (Phone) <u>(510) 842-9136</u>          Laboratory Name <u>Sequoia</u>          Laboratory Release Number <u>9030595</u>          Samples Collected by (Name) <u>TROY N. HORNER</u>          Collection Date <u>5/1/97</u>          Signature <u>[Signature]</u></p>
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Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed											Remarks							
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (5240)	Extractable Organics (5270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	BTEX	MTBE	9705114								
B-1	1	5	W		1250	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
B-5	2	5	W		1110	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
B-6	3	5	W		1015	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
B-10	4	5	W		1125	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
B-11	5	5	W		1155	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
B-12	6	5	W		1220	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
B-13	7	5	W		1040	HCL/NONE	Y	<del>X</del>	<del>X</del>																	
TTB	8	2	W			HCL	Y	<del>X</del>																		

DO NOT BILL FOR TB-LB

Remarks

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BTB</u>	Date/Time <u>5/2/97</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQ</u>	Date/Time <u>5/2/97</u>	Turn Around Time (Circle Choice)  24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SEQ</u>	Date/Time <u>5/2/97</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>m-Sr</u>		Date/Time <u>5-2-97 1116</u>	

# **Field Data Sheets**





# CHEVRON WELL MONITORING DATA SHEET

Project #: 970501-H1	Station #: 9-0290
Sampler: TNH	Date: 5/1/97
Well I.D.: B-6	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 18.44	Depth to Water: 5.23
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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2.1	x	3	=	6.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:00	68.6	8.2	1200	2.5	
10:05	66.8	8.2	1200	5.0	
10:10	67.0	8.4	1200	6.5	

Did well dewater? Yes <input checked="" type="checkbox"/> (No)	Gallons actually evacuated: 6.5
Sampling Time: 1015	Sampling Date: 5/1/97
Sample I.D.: B-6	Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs
Analyzed for: TPH-G BTEX (MTBE) (TPH-D) Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: _____ mg/L      Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV      Post-purge: _____ mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: 970501-H1	Station #: 9-0290
Sampler: TNH	Date: 5/1/97
Well I.D.: B-13	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 15.20	Depth to Water: 5.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer Extraction Port Other: _____
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1.6	x	3	=	4.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1025	67.8	8.4	560	1.75	
1030	67.2	8.2	570	3.5	
1034	67.2	8.1	600	5.0	

Did well dewater? Yes  No  Gallons actually evacuated: 5.0

Sampling Time: 1040 Sampling Date: 5/1/97

Sample I.D.: B-13 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## CHEVRON WELL MONITORING DATA SHEET

Project #: 970501-H1	Station #: 9-0290
Sampler: TNH	Date: 5/1/97
Well I.D.: B-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 17.99	Depth to Water: 4.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:                      Bailer                      Sampling Method:                      Bailer  
     Disposable Bailer     Disposable Bailer   
     Middleburg    Extraction Port  
     Electric Submersible    Other: \_\_\_\_\_  
     Extraction Pump

Other: \_\_\_\_\_

<u>2.2</u>	$\times$	<u>3</u>	$=$	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1050	68.0	8.0	730	2.5	SLOW RECHARGE
1055	67.2	8.0	740	5.0	
1100	67.8	8.0	740	6.75	

Did well dewater?    Yes     No    Gallons actually evacuated: 6.75

Sampling Time: 1110                      Sampling Date: 5/1/97

Sample I.D.: B-5                      Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

Duplicate I.D.:                      Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970501-H1</u>	Station #: <u>9-0290</u>
Sampler: <u>TNH</u>	Date: <u>5/1/97</u>
Well I.D.: <u>B-10</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>16:07</u>	Depth to Water: <u>5.57</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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<u>1.7</u>	x	<u>3</u>	=	<u>5.1</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>11:15</u>	<u>67.4</u>	<u>7.9</u>	<u>1200</u>	<u>1.75</u>	
<u>11:18</u>	<u>67.8</u>	<u>7.8</u>	<u>1200</u>	<u>3.5</u>	
<u>11:21</u>	<u>67.6</u>	<u>7.9</u>	<u>1300</u>	<u>5.25</u>	

Did well dewater? Yes <input type="checkbox"/> <u>(No)</u> <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>5.25</u>	
Sampling Time: <u>11:25</u>	Sampling Date: <u>5/1/97</u>	
Sample I.D.: <u>B-10</u>	Laboratory: <u>(Sequoia)</u> GTEL N. Creek Assoc. Labs	
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> <u>(TPH-D)</u> Other:		
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970501-H1</u>	Station #: <u>9-0290</u>
Sampler: <u>TNH</u>	Date: <u>5/1/97</u>
Well I.D.: <u>B-12</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>13.95</u>	Depth to Water: <u>4.99</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: _____
<u>Extraction Pump</u>	
Other: _____	

<u>1.4</u>	x	<u>3</u>	=	<u>4.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>12:07</u>	<u>66.4</u>	<u>9.2</u>	<u>1400</u>	<u>1.5</u>	
<u>12:10</u>	<u>65.8</u>	<u>9.1</u>	<u>1400</u>	<u>3.0</u>	
<u>12:13</u>	<u>66.0</u>	<u>9.1</u>	<u>1300</u>	<u>4.5</u>	

Did well dewater? N Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 1220 Sampling Date: 5/1/97

Sample I.D.: B-12 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV