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Reply



Chevron

May 6, 1994

Chevron U.S.A. Products Company

2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

103

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Chevron Service Station #9-0076
4265 Foothill Boulevard, Oakland, CA**

Dear Mr. Chan:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated March 16, 1994, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected

Depth to ground water was measured at approximately 19.6 to 35.6 feet below grade. The depth to ground water data presented in the enclosed report has been contoured on the potentiometric surface map to show one continuous water bearing zone with the flow direction towards the southwest. This map reflects Chevron's current understanding of the ground water depth and movement beneath the site. Future monitoring events will be coordinated with the adjacent Shell site to provide a more comprehensive picture of ground water movement in the area.

We are currently evaluating the data gathered during the coordinated sampling and monitoring events with Shell and BP to assist in developing an appropriate remedial strategy.

Chevron will continue to monitor and sample all wells at this site on a quarterly basis. If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

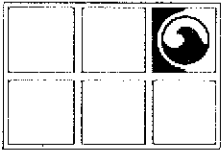
Enclosure

cc: Mr. Rich Hiatt, RWQCB - Bay Area
Mr. Mike Cooke, Weiss Associates
Mr. S.A. Willer

File: 9-0076 QM8

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MAR 28 '94 J.M.M.



GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

March 16, 1994

Project No. 020104102

Mr. Mark Miller
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583-0804

SUBJECT: *Groundwater Monitoring and Sampling Activities*
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on January 28, 1994. Eight groundwater wells were gauged to measure depth to groundwater (DTW) and to check for separate-phase hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map and a summary of groundwater monitoring data are presented in Attachments 1 and 2, respectively. After the DTW was measured, each monitoring well was purged and sampled. Field data sheets are presented in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, total xylenes, and total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Table 1. The laboratory report and chain-of-custody record are included in Attachment 4. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments, please contact our Concord office at (510) 671-2387.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

Tim Watchers
Project Manager

PR KJ

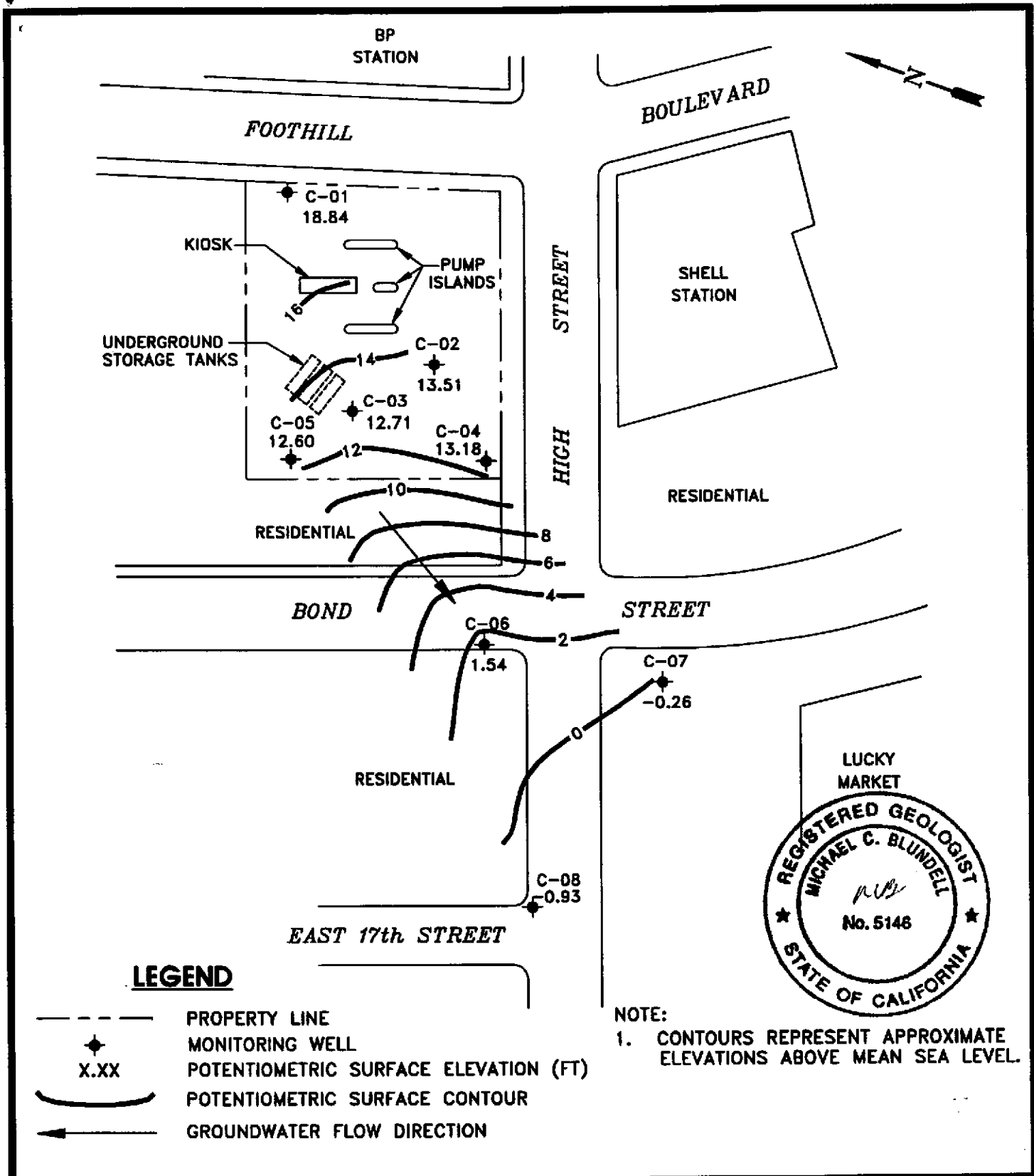
Attachment 1 Figure
Attachment 2 Table
Attachment 3 Field Data Sheets
Attachment 4 Laboratory Report

For:
Wendell W. Lattz
Vice President, General Manager
West Region

4102R033.020

ATTACHMENT 1

Figure



LEGEND

- PROPERTY LINE
- MONITORING WELL
- X.XX** POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

				POTENTIOMETRIC SURFACE MAP (1/28/94)				
CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION NO. 9-0076			FILE: 4102-PSM		PROJECT NO.: 020104102		PM	PE/RG <i>MB</i>
LOCATION: 4265 FOOTHILL BOULEVARD OAKLAND, CALIFORNIA			REV.		DATE: 3-11-94		FIGURE: 1	
			DES. TW	DET. SS				

ATTACHMENT 2

Table

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
C-1 35.42	04/28/89a	940	30	1.3	11	13	20.05	0.00	15.37
	08/08/89a	820	45	2	13	13	24.07	0.00	11.35
	12/21/89	---	---	---	---	---	22.81	0.00	12.61
	08/27/90	440	15	1	6	13	22.12	0.00	13.30
	11/04/90	---	---	---	---	---	25.56	0.00	9.86
	06/18/91	74	5.6	0.6	1.9	1.3	21.64	0.00	13.78
	09/19/91	150	7.1	<0.5	2.3	3	24.58	0.00	10.84
	12/20/91	250	10	<0.5	3.7	1.6	26.17	0.00	9.25
	03/18/92	190	16	<0.5	8.5	2.9	18.25	0.00	17.17
	07/14/92	20,000	480	2,200	510	2,900	27.61	0.00	7.81
38.41	10/08/92	360	34	4.6	19	12	24.44	0.00	10.98
	01/08/93	120	9.1	0.5	5.1	1.8	19.68	0.00	15.74
	04/14/93	190	74	0.6	1	2	16.38	0.00	19.04
	07/16/93	---	---	---	---	---	---	---	---
	07/27/93	300	12	<0.5	5	2	9.39	0.00	26.03
	09/21/93	360	12	1.2	5.8	3.7	21.42	0.00	16.99
	01/28/94	370	24	1	13	4	19.57	0.00	18.84

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)	
C-2 35.18	04/28/89a	120,000	30,000	22,000	3,000	17,000	26.44	0.00	8.74	
	08/08/89a	---	---	---	---	---	29.90	0.01	5.29	
	12/21/89	---	---	---	---	---	29.32	0.00	5.86	
	08/27/90	---	---	---	---	---	29.55	0.17	5.77	
	11/04/90	---	---	---	---	---	30.47	0.00	4.71	
	06/18/91	---	---	---	---	---	28.33	0.06	6.90	
	09/19/91	---	---	---	---	---	29.39	0.06	5.84	
	12/20/91	170,000	20,000	10,000	2,800	19,000	29.23	0.00	5.95	
	03/18/92	---	---	---	---	---	13.60	0.09	21.58	
	07/14/92	---	---	---	---	---	---	---	---	
	10/08/92	---	---	---	---	---	---	---	---	
	01/08/93	79,000	14,000	7,200	3,500	16,000	24.20	Sheen	10.98	
	04/14/93	---	---	---	---	---	---	---	---	
37.47	07/16/93	2,200	440	73	24	350	30.15	0.00	5.03	
	**09/21/93	11,000	2,300	300	270	910	26.29	0.00	11.18	
	01/28/94	49,000	11,000	3,900	1,600	12,000	23.96	0.00	13.51	
C-3 35.28 35.30	04/28/89a	<500	1.7	<0.5	<0.5	<0.5	28.00	0.00	7.28	
	08/08/89a	<500	1	<0.5	<0.5	<0.5	30.00	0.00	5.28	
	12/21/89	---	---	---	---	---	30.53	0.00	4.75	
	08/27/90	<50	<0.3	<0.3	<0.3	<0.6	29.68	0.00	5.60	
	11/04/90	---	---	---	---	---	30.36	0.00	4.94	
	06/18/91	52	1.1	<0.5	<0.5	1.2	28.46	0.00	6.84	
	09/19/91	73	1.2	<0.5	<0.5	<0.5	29.33	0.00	5.97	
	12/20/91	<50	0.7	<0.5	<0.5	<0.5	29.77	0.00	5.53	
	03/18/92	<50	<0.5	<0.5	<0.5	<0.5	25.75	0.00	9.55	
	07/14/92	<50	<0.5	<0.5	<0.5	<0.5	27.87	0.00	7.43	
	10/08/92	<50	<0.5	<0.5	<0.5	0.5	28.55	0.00	6.75	
	01/08/93	<50	<0.5	<0.5	<0.5	<0.5	25.85	0.00	9.45	
	04/14/93	<50	<0.5	<0.5	<0.5	<0.5	23.96	0.00	11.34	
	07/16/93	<50	<0.5	<0.5	<0.5	<0.5	25.64	0.00	9.66	
	38.37	**09/21/93	<50	0.7	<0.5	<0.5	<0.8	26.22	0.00	12.15
		01/28/94	<50	2	<0.5	<0.5	1	25.66	0.00	12.71

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)	
C-4	01/12/89a	---	---	---	---	---	29.49	0.00	3.96	
	04/12/89a	---	---	---	---	---	27.44	0.00	6.01	
33.45	04/28/89	20,000	6,300	550	230	1,500	29.49	0.00	3.96	
	08/08/89a	8,000	7,500	340	88	1,000	29.55	0.00	3.90	
33.48	12/21/89	---	---	---	---	---	30.02	0.00	3.43	
	08/27/90	26,000	10,000	280	410	1,400	29.02	0.00	4.46	
	11/04/90	---	---	---	---	---	29.81	0.00	3.67	
	06/18/91	34,000	14,000	410	450	1,300	27.45	0.00	6.03	
	09/19/91	16,000	7,400	90	110	460	28.65	0.00	4.83	
	12/20/91	24,000	12,000	120	260	740	28.84	0.00	4.64	
	03/18/92	48,000	6,000	1,300	1,300	2,400	24.43	0.00	11.05	
	07/14/92	40,000	14,000	920	550	2,400	26.89	0.00	6.59	
	10/08/92	29,000	13,000	190	110	1,400	27.79	0.00	5.69	
	01/08/93	25,000	7,000	630	860	1,800	23.50	0.00	9.98	
36.49	04/14/93	*27,000	6,300	1,000	900	1,400	21.13	0.00	12.35	
	07/16/93	28,000	7,800	1,100	830	2,100	23.96	0.00	9.52	
	**09/21/93	30,000	9,600	130	390	1,300	25.51	0.00	10.98	
	01/28/94	18,000	7,800	440	260	1,200	23.31	0.00	13.18	
	C-5	08/27/90	<50	<0.3	<0.3	<0.3	<0.6	29.83	0.00	5.67
11/14/90		---	---	---	---	---	30.56	0.00	4.94	
06/18/91		<50	<0.5	<0.5	<0.5	<0.5	28.52	0.00	6.98	
09/19/91		<50	<0.5	<0.5	<0.5	<0.5	29.51	0.00	5.99	
12/20/91		<50	<0.5	<0.5	<0.5	<0.5	29.96	0.00	5.54	
03/18/92		<50	<0.5	<0.5	<0.5	<0.5	25.92	0.00	9.58	
07/14/92		<50	<0.5	<0.5	<0.5	<0.5	28.00	0.00	7.50	
10/08/92		<50	<0.5	<0.5	<0.5	<0.5	28.65	0.00	6.85	
01/08/93		<50	<0.5	<0.5	<0.5	<0.5	26.02	0.00	9.48	
04/14/93		<50	<0.5	<0.5	<0.5	<0.5	24.04	0.00	11.46	
07/16/93		<50	<0.5	<0.5	<0.5	<0.5	25.21	0.00	10.29	
38.50		**09/21/93	60	10	8.1	1.9	9.4	26.36	0.00	12.14
		01/28/94	<50	<0.5	<0.5	<0.5	<0.5	25.90	0.00	12.60

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)	
C-6 32.40	08/27/90	7,200	2,100	6	41	300	44.11	0.00	-11.71	
	11/14/90	---	---	---	---	---	44.03	0.00	-11.63	
	06/18/91	4,400	2,500	18	160	77	43.49	0.00	-11.09	
	09/19/91	3,100	1,600	8.3	73	8	34.32	0.00	-1.92	
	12/20/91	4,400	1,300	3.2	74	10	41.35	0.00	-8.95	
	03/18/92	9,800	3,200	34	250	500	40.69	0.00	-8.29	
	07/14/92	6,500	2,200	100	96	240	38.89	0.00	-6.49	
	10/08/92	1,800	1,000	3.1	15	41	38.67	0.00	-6.27	
	01/08/93	5,200	1,600	6.8	63	120	37.81	0.00	-5.41	
	04/14/93	11,000	1,800	13	110	200	34.70	0.00	-2.30	
35.40	07/16/93	4,800	820	10	41	57	33.87	0.00	-1.47	
	**09/21/93	4,100	1,200	<50	75	130	33.98	0.00	1.42	
	01/28/94	3,100	930	14	40	34	33.86	0.00	1.54	
C-7 32.17	08/27/90	110	26	0.8	4	6	44.23	0.00	-12.06	
	11/14/90	---	---	---	---	---	44.11	0.00	-11.94	
	06/18/91	23,000	5,700	420	1,000	2,800	42.05	0.00	-9.88	
	09/19/91	26,000	4,600	330	970	2,400	41.72	0.00	-9.55	
	12/20/91	33,000	5,500	270	1,000	2,100	41.67	0.00	-9.50	
	03/18/92	27,000	5,800	410	1,300	3,300	41.20	0.00	-9.03	
	07/14/92	46,000	12,000	720	1,700	4,600	39.77	0.00	-7.60	
	10/08/92	22,000	6,800	370	1,300	3,200	39.14	0.00	-6.97	
	01/08/93	36,000	7,600	540	1,700	4,200	38.50	0.00	-6.33	
	04/14/93	23,000	3,100	450	670	1,900	35.93	0.00	-3.76	
	07/16/93	19,000	3,200	330	550	1,800	35.38	0.00	-3.21	
	35.19	**09/21/93	17,000	2,700	160	410	760	35.46	0.00	-0.27
		01/28/94	14,000	1,800	210	390	1,000	35.45	0.00	-0.26

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
C-8	11/14/90	<50	<0.3	<0.3	<0.3	<0.6	43.29	0.00	-12.61
	06/18/91	<50	<0.5	<0.5	<0.5	<0.5	42.62	0.00	-11.94
30.68	09/19/91	<50	<0.5	<0.5	<0.5	<0.5	41.72	0.00	-11.04
	12/20/91	<50	<0.5	<0.5	<0.5	<0.5	40.98	0.00	-10.30
	03/18/92	<50	<0.5	<0.5	<0.5	<0.5	40.02	0.00	-9.34
	07/14/92	<50	<0.5	<0.5	<0.5	<0.5	39.02	0.00	-8.34
	10/08/92	<50	<0.5	<0.5	<0.5	1.1	38.68	0.00	-8.00
	01/08/93	<50	<0.5	<0.5	<0.5	<0.5	38.07	0.00	-7.39
	04/14/93	<50	<0.5	<0.5	<0.5	<0.5	35.99	0.00	-5.31
34.68	07/16/93	<50	<0.5	<0.5	<0.5	<0.5	35.32	0.00	-4.64
	**09/21/93	<50	<0.5	<0.5	<0.5	<0.8	35.30	0.00	-0.62
	01/28/94	<50	<0.5	<0.5	<0.5	<0.5	35.61	0.00	-0.93

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0076
4265 Foothill Boulevard, Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
TBLB	04/28/89	<500	<0.5	<0.5	<0.5	<0.5	---	---	---
	08/08/89	<500	<0.5	<0.5	<0.5	<0.5	---	---	---
	08/27/90	<50	<0.3	<0.3	<0.3	<0.6	---	---	---
	11/14/90	<50	<0.3	<0.3	<0.3	<0.6	---	---	---
	06/18/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/19/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/20/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	03/18/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/14/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/08/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/08/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/14/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/16/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	**09/21/93	<50	<0.5	<0.5	<0.5	<0.8	---	---	---
	01/28/94	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

TPH-G = Total petroleum hydrocarbons-as-gasoline
DTW = Depth to groundwater
SPT = Separate-phase hydrocarbon thickness
WTE = Water-table elevation
--- = Not applicable, not sampled, not measured
* = Uncategorized compound not included in gasoline hydrocarbon concentration.

All elevations are presented as feet above mean sea level.

Analytical results are in micrograms per liter, equivalent to parts per billion.

Top-of-casing elevations were surveyed September 21, 1993.

Data for April 28, 1989, through December 20, 1991, were taken from *Fourth Quarter 1991 Ground Water Monitoring Report*, dated January 30, 1992 (Weiss Associates).

ATTACHMENT 3

Field Data Sheets

Project Name: Chevron - Foothill Blvd.

Date: 1/28/94

Site Address: 4265 Foothill Blvd. Oakland

Page _____ of _____

Project Number: 020104102.0610

Project Manager: Tim Watchers

Well ID: C-7

DTW Measurements:

Well Diameter: 2 in

Initial: _____ Calc Well Volume: 12.66 gal
Recharge: _____ Well Volume: 13 gal

Purge Method _____ Pump Depth _____ ft.
Peristaltic _____ Hand Bailed
Gear Drive _____ Air Lift _____
Submersible _____ Other _____

Instruments Used
YSI: _____ Other: _____
Hydac:
Omega: _____

Time	Temp <u>C</u> <u>Ⓢ</u>	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
14:14	42.3	2.15	6.47	1	Grey cloudy	odor
14:19	36.2	3.32	6.37	5	Grey cloudy	odor
14:23	39.4	2.72	6.42	8	Grey cloudy	odor
14:30	41.3	3.19	6.40	13	Grey cloudy	odor

Project Name: Chevron - Foothill Blvd.

Date: 1/28/99

Site Address: 4265 Foothill Blvd. Oakland

Page _____ of _____

Project Number: 020104102.0610

Project Manager: Tim Watchers

Well ID: C-5

DTW Measurements:

Well Diameter: 2 in

Initial: _____ Calc Well Volume: 11.77 gal
Recharge: _____ Well Volume: 12 gal

Purge Method _____ Pump Depth _____ ft.
Peristaltic _____ Hand Bailed ✓
Gear Drive _____ Air Lift _____
Submersible _____ Other _____

Instruments Used
YSI: _____ Other: _____
Hydac: ✓
Omega: _____

Time	Temp C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
12:32	40.2	3.23	6.41	1	Brown cloudy	
12:35	38.7	3.24	6.21	5	Brown cloudy	
12:38	42.4	2.93	6.31	8	Brown cloudy	
12:44	40.9	2.75	6.40	12	Brown cloudy	

ATTACHMENT 4

Laboratory Report



4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

Client Number: 020104102
Consultant Project Number: 020104102.0610
Facility Number: 9-0076
Project ID: 4265 Foothill Blvd.
Work Order Number: C4-01-0409

February 8, 1994

Tim Watchers
Groundwater Technology, Inc.
4057 Port Chicago Hwy.
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 01/31/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rashmi Shah
Laboratory Director

Client Number: 020104102
 Consultant Project Number: 020104102.0610
 Facility Number: 9-0076
 Project ID: 4265 Foothill Blvd.
 Work Order Number: C4-01-0409

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		01	02	03	04
Client Identification		C-7	C-6	C-4	C-2
Date Sampled		01/28/93	01/28/93	01/28/93	01/28/93
Date Analyzed		02/04/94	02/02/94	02/04/94	02/05/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	1800	930	7800	11000
Toluene	0.5	210	14	440	3900
Ethylbenzene	0.5	390	40	260	1600
Xylene, total	0.5	1000	34	1200	12000
TPH as Gasoline	50	14000	3100	18000	49000
Detection Limit Multiplier		25	1	50	100
BFB surrogate, % recovery		93.8	75.9	94.3	98.8

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: 020104102
 Consultant Project Number: 020104102.0610
 Facility Number: 9-0076
 Project ID: 4265 Foothill Blvd.
 Work Order Number: C4-01-0409

Table 1 (continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015^a

GTEL Sample Number		05	06	07	08
Client Identification		C-8	C-3	C-5	C-1
Date Sampled		01/28/93	01/28/93	01/28/93	01/28/93
Date Analyzed		02/02/94	02/03/94	02/02/94	02/02/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	2	<0.5	24
Toluene	0.5	<0.5	<0.5	<0.5	1
Ethylbenzene	0.5	<0.5	<0.5	<0.5	13
Xylene, total	0.5	<0.5	1	<0.5	4
TPH as Gasoline	50	<50	<50	<50	370
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		77.1	106	75.9	76.1

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: 020104102
 Consultant Project Number: 020104102.0610
 Facility Number: 9-0076
 Project ID: 4265 Foothill Blvd.
 Work Order Number: C4-01-0409

Table 1 (continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015^a

GTEL Sample Number		09	M020294		
Client Identification		TBLB	METHOD BLANK		
Date Sampled		01/28/93	--		
Date Analyzed		02/03/94	02/02/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5		
Toluene	0.5	<0.5	<0.5		
Ethylbenzene	0.5	<0.5	<0.5		
Xylene, total	0.5	<0.5	<0.5		
TPH as Gasoline	50	<50	<50		
Detection Limit Multiplier		1	1		
BFB surrogate, % recovery		95.9	78.5		

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: 020104102
Consultant Project Number: 020104102.0610
Facility Number: 9-0076
Project ID: 4265 Foothill Blvd.
Work Order Number: C4-01-0409

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
Benzene	C4010410-09	20.0	ug/L	103	102	0.9	57.3 - 138
Toluene	C4010410-09	20.0	ug/L	104	102	1.9	63.0 - 134
Ethylbenzene	C4010410-09	20.0	ug/L	102	99.0	2.9	59.3 - 137
Xylene, total	C4010410-09	60.0	ug/L	103	100	2.9	59.3 - 144

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

Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number: <u>9-0076</u>	Chevron Contact (Name): <u>Mark Miller</u>
	Facility Address: <u>4265 Foothill Blvd</u>	(Phone): <u>570/842-8134</u>
	Consultant Project Number: <u>020104102-0610</u>	Laboratory Name: <u>GTEL</u>
	Consultant Name: <u>Groundwater Technology, Inc.</u>	Laboratory Release Number: <u>876-6690</u>
Address: <u>4057 West Chicago Hwy, Concord, CA 94520</u>	Sample Collected by (Name): <u>Leo Talley</u>	Collection Date: <u>1-25-94</u>
Project Contact (Name): <u>Tim Watchers</u>	Signature: <u>[Signature]</u>	
(Phone): <u>510-671-2387</u> (Fax Number)		

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	Analyses To Be Performed										NOTE: Do NOT BILL TB-LB SAMPLES 40 Seals intact Remarks		
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	Hold				
C-7	01	3	W	G	1440	Hel	Y	X												
C-6	02	3	W	G	1510	Hel	Y	Y												
C-4	03	3	W	G	1615	Hel	Y	X												
C-2	04	3	W	G	1621	Hel	Y	Y												
C-8	05	3	W	G	1550	Hel	Y	X												
C-3	06	3	W	B	1630	Hel	Y	Y												
C-5	07	3	W	B	1636	Hel	Y	Y												
C-1	08	3	W	B	1642	Hel	Y	X												
TBLB	09	2	W	B	840	Hel	Y	X												
RBC-7	10	1	W	B	1440	Hel	Y	X												
RBC-6	11	1	W	G	1510	Hel	Y	Y												N BOX
RBC-4	12	1	W	B	1615	Hel	Y	Y												T BOX
RBC-2	13	1	W	B	1621	Hel	Y													
RBC-3	14	1	W	B	1630	Hel	X													C4010409

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>GTEL</u>	Date/Time: <u>1-31-94</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>GTEL</u>	Date/Time: <u>1-31-94</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days 10 Days As Contracted
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>GTEL</u>	Date/Time: <u>1-31-94</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>GTEL</u>	Date/Time: <u>1-31-94</u>	
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>GTEL</u>	Date/Time: <u>1-31-94</u>	Received For Laboratory By (Signature): <u>[Signature]</u>	Organization: <u>GTEL</u>	Date/Time: <u>1/31/94 4:00</u>	

