



Chevron

June 17, 1994

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Ms. Jennifer Eberle
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Marketing Department
Phone 510 842 9500

**Re: Chevron Service Station #9-4587
609 Oak Street, Oakland, CA**

Dear Ms. Eberle:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated April 15, 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 and BTEX.

Concentrations of dissolved hydrocarbon constituents in the ground water samples collected were consistent with previous observations at the site. Separate-phase hydrocarbons were detected in monitor wells C-1 and CR-1 and tank pit backfill wells C-B and C-C at measured thicknesses of 0.26, 0.04, 0.85, and 0.28 feet, respectively. Depth to ground water was measured at approximately 8.0 to 9.2 feet below grade and the direction of flow is to the southeast.

The ground water extraction system was restarted on April 28, 1994, following carbon changeout activities. To date the system has removed approximately 81,530 gallons of hydrocarbon impacted ground water. Currently the system is fully operational.

On May 3, 1994, Erickson, Inc. visited the site with a vacuum truck to remove separate-phase hydrocarbons and hydrocarbon impacted ground water from the tank pit backfill wells. Approximately 600 gallons of ground water was removed and transferred to Gibson Oil in Redwood City for recycling. Future quarterly monitoring events will provide data to assist in evaluating the effectiveness of this procedure.

Removal of the underground storage tanks and product lines has been rescheduled to Fall of 1994. I will continue to update your office as this schedule develops. Chevron will continue to monitor and sample 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

ALCO
HAZMAT
94 JUN 22 PM 12:41

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June 17, 1994
Chevron SS#9-4587

Enclosure

cc: Mr. Kevin Graves, RWQCB - Bay Area
Ms. Kate McCutchen, Geraghty & Miller - Richmond
Ms. B.C. Owen

Mr. Dewey Bargiacchi
The Paris Company
8520 Pardee
Oakland, CA 94621

Mr. James Kimberlin
1100 Howe Avenue #415
Sacramento, CA 94825

Mr. William Kimberlin
51 Eureka Street
Kensington, CA 94707

File: 9-4587 QM5

APR 28 '94 J.M.M.



**GROUNDWATER
TECHNOLOGY, INC.**

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

FAX: (415) 685-9148

April 15, 1994

Project No. 020104111

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

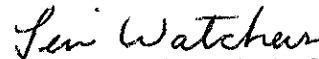
SUBJECT: *Groundwater Monitoring and Sampling Activities*
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on March 7, 1994. Ten of the eleven groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were detected in monitoring wells C-1, CR-1, C-B, and C-C at a thickness of 0.26, 0.04, 0.85 and 0.28, respectively. Monitoring well C-A was not located. 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, except monitoring wells C-1, CR-1, C-A, C-B, and C-C, was purged and sampled. Field data sheets are presented in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes, and for 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. The results of a monthly product bailing program for monitoring wells CR-1, C-1, C-C, and C-B are presented in Table 2. 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

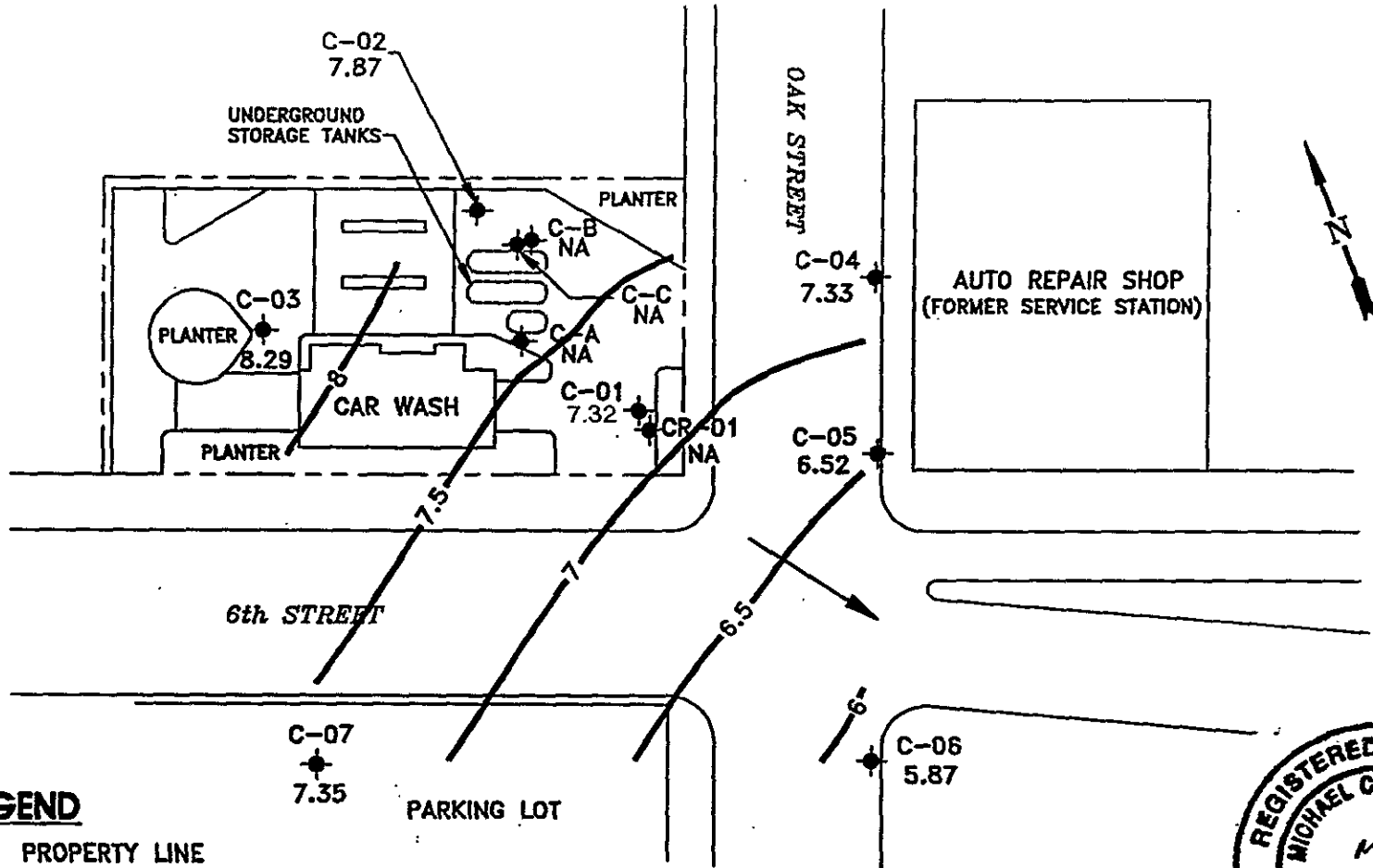
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Attachment 1 Figure
Attachment 2 Table
Attachment 3 Field Data Sheets
Attachment 4 Laboratory Report

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

ATTACHMENT 1

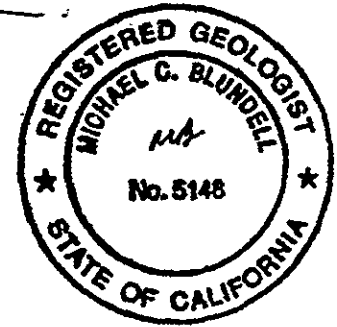
Figure



LEGEND

- PROPERTY LINE
- MONITORING WELL
- NA NOT AVAILABLE
- X.XX POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

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



GROUNDWATER TECHNOLOGY



CLIENT:
CHEVRON U.S.A. PRODUCTS CO.
SERVICE STATION No. 9-4587

**POTENTIOMETRIC SURFACE MAP
(3-7-94)**

FILE:
4111PSM, (1:40)

PROJECT NO.:
02010-4111

LOCATION:
609 OAK STREET
OAKLAND, CALIFORNIA

PM:
JAW

PE/RG:
MB

FIGURE:
1

REV.:

DES.:
SS

DET.:
TW

DATE:
4/4/94

ATTACHMENT 2

Table

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
C-A	12/06/89	44,000	20,000	66	1,600	2,220	---	0.00	---
	10/30/90	31,000	23,000	110	1,100	160	11.20	Sheen	---
	10/30/90	30,000	23,000	150	1,000	180	11.20	Sheen	---
	01/14/91	12,000	30,000	540	1,400	560	11.25	0.00	---
	04/03/91	59,000	33,000	2,400	2,200	3,100	9.82	0.00	---
	07/17/91	52,000	38,000	380	1,300	500	10.93	0.00	---
	10/07/91	---	---	---	---	---	---	---	---
	06/25/92	---	---	---	---	---	---	---	---
	09/17/92	---	---	---	---	---	---	---	---
	12/16/92	---	---	---	---	---	---	---	---
	03/18/93	---	---	---	---	---	---	---	---
	06/11/93	---	---	---	---	---	---	---	---
	09/08/93	---	---	---	---	---	---	---	---
	09/17/93	---	---	---	---	---	10.02	0.00	---
	12/23/93	---	---	---	---	---	---	---	---
03/07/94	---	---	---	---	---	---	---	---	
C-B	12/06/89	---	---	---	---	---	---	0.01	---
	10/30/90	---	---	---	---	---	11.19	0.01	---
	01/14/91	---	---	---	---	---	11.40	0.01	---
	04/03/91	---	---	---	---	---	9.55	1.00	---
	04/04/91	---	---	---	---	---	10.54	1.06	---
	07/17/91	---	---	---	---	---	10.84	0.03	---
	10/07/91	---	---	---	---	---	11.10	0.04	---
	02/04/92	---	---	---	---	---	10.78	0.01	---
	03/06/92	---	---	---	---	---	---	---	---
	04/01/92	---	---	---	---	---	10.33	1.02	---
	06/25/92	---	---	---	---	---	11.20	0.68	---
	09/17/92	---	---	---	---	---	11.07	0.13	---
	12/16/92	---	---	---	---	---	10.41	0.38	---
	03/18/93	---	---	---	---	---	9.19	0.05	---
	06/11/93	---	---	---	---	---	9.54	0.70	---
	09/08/93	---	---	---	---	---	---	---	---
	09/17/93	---	---	---	---	---	9.85	0.52	---
12/23/93	---	---	---	---	---	9.37	0.20	---	
03/07/94	---	---	---	---	---	9.24	0.85	---	

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
C-C	12/06/89	---	---	---	---	---	---	0.15	---
	10/30/90	---	---	---	---	---	10.84	0.03	---
	01/14/91	---	---	---	---	---	11.01	0.11	---
	04/03/91	---	---	---	---	---	9.19	0.02	---
	07/17/91	---	---	---	---	---	10.53	0.03	---
	10/07/91	---	---	---	---	---	10.98	0.08	---
	02/04/92	---	---	---	---	---	10.45	0.09	---
	03/06/92	---	---	---	---	---	8.83	0.09	---
	04/01/92	---	---	---	---	---	9.23	0.16	---
	06/25/92	---	---	---	---	---	10.40	0.12	---
	09/17/92	---	---	---	---	---	10.84	0.12	---
	12/16/92	---	---	---	---	---	10.02	0.12	---
	03/18/93	---	---	---	---	---	8.70	0.15	---
	06/11/93	---	---	---	---	---	9.25	0.13	---
	09/08/93	---	---	---	---	---	---	---	---
	09/17/93	---	---	---	---	---	9.83	Sheen	---
12/23/93	---	---	---	---	---	9.66	0.07	---	
03/07/94	---	---	---	---	---	8.93	0.28	---	
C-1 16.07	12/06/89	---	---	---	---	---	---	0.20	---
	10/30/90	---	---	---	---	---	10.79	0.02	5.30
	01/14/91	---	---	---	---	---	11.39	0.02	4.70
	04/03/91	---	---	---	---	---	9.43	0.02	6.66
	07/17/91	---	---	---	---	---	10.46	0.04	5.64
	10/07/91	---	---	---	---	---	10.74	0.04	5.36
	02/04/92	---	---	---	---	---	10.37	0.01	5.71
	03/06/92	---	---	---	---	---	9.20	0.00	6.87
	04/01/92	---	---	---	---	---	9.28	0.00	6.79
	06/25/92	100,000	8,800	7,000	2,800	19,000	9.98	0.01	6.10
	09/17/92	---	---	---	---	---	10.51	Sheen	5.56
	12/16/92	---	---	---	---	---	9.81	Sheen	6.26
	03/18/93	---	---	---	---	---	8.88	Sheen	7.19
	06/11/93	---	---	---	---	---	9.31	0.02	6.78
	09/08/93	---	---	---	---	---	---	---	---
	09/17/93	---	---	---	---	---	9.72	0.02	6.37
12/23/93	41,000	5,400	590	710	5,600	9.49	0.00	6.58	
03/07/94	---	---	---	---	---	8.96	0.26	7.32	

TABLE 1
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Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
C-2 16.84	12/06/89	16,000	250	1,200	550	1,400	---	0.00	---
	10/30/90	28,000	3,700	1,900	1,200	4,300	11.16	0.00	5.68
	01/14/91	24,000	3,300	1,200	1,100	4,100	11.11	0.00	5.73
	01/14/91	30,000	3,900	1,500	1,500	5,000	11.11	0.00	5.73
	04/03/91	12,000	1,100	840	650	1,800	9.53	0.00	7.31
	04/03/91	14,000	1,100	990	680	1,800	9.53	0.00	7.31
	07/17/91	13,000	1,700	560	650	1,700	10.68	0.00	6.16
	07/17/91	14,000	1,700	640	720	1,900	10.68	0.00	6.16
	10/07/91	25,000	3,700	1,300	1,400	3,800	11.02	0.00	5.82
	02/04/92	16,000	2,600	300	880	1,900	10.60	0.00	6.24
	04/01/92	15,000	1,900	300	700	1,500	9.30	0.00	7.54
	06/25/92	23,000	3,400	740	1,300	3,400	10.45	0.00	6.39
	09/17/92	18,000	3,500	550	1,400	3,900	10.78	0.00	6.06
	12/16/92	12,000	1,200	120	460	1,100	9.94	0.00	6.90
	03/18/93	5,200	990	130	290	430	8.80	0.00	8.04
	06/11/93	34,000	8,200	910	2,400	6,600	9.43	0.00	7.41
	09/08/93	3,400	690	26	190	330	---	---	---
	09/17/93	---	---	---	---	---	9.91	0.00	6.93
	12/23/93	2,500	830	26	130	260	9.69	0.00	7.15
03/07/94	---	---	6.5	110	69	8.97	0.00	7.87	
C-3 16.48	12/06/89	<500	<0.5	<0.5	<0.5	0.74	---	0.00	---
	10/30/90	410	4	4	2	9	10.44	0.00	6.04
	01/14/91	80	<0.5	<0.5	<0.5	1	10.34	0.00	6.14
	04/03/91	53	<0.5	<0.5	<0.5	2	9.01	0.00	7.47
	07/17/91	<50	5.9	<0.5	<0.5	<0.5	10.00	0.00	6.48
	10/07/91	<50	<0.5	<0.5	<0.5	<0.5	10.38	0.00	6.10
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	10.00	0.00	6.48
	04/01/92	<50	<0.5	<0.5	<0.5	<0.5	8.83	0.00	7.65
	06/25/92	<50	<0.5	<0.5	<0.5	<0.5	9.85	0.00	6.63
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	10.20	0.00	6.28
	12/16/92	<50	<0.5	<0.5	<0.5	<0.5	9.40	0.00	7.08
	03/18/93	<50	<0.5	<0.5	<0.5	<1.5	8.12	0.00	8.36
	06/11/93	<50	<0.5	<0.5	<0.5	<0.5	8.59	0.00	7.89
	09/08/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---
	09/17/93	---	---	---	---	---	9.00	0.00	7.48
	12/23/93	<60	<0.5	0.8	<0.5	2.9	8.83	0.00	7.65
03/07/94	<60	<0.5	<0.5	<0.5	<0.5	8.19	0.00	8.29	

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)	
C-4 16.53	12/06/89	---	---	---	---	---	---	0.00	---	
	10/30/90	<50	<0.5	<0.5	<0.5	<0.5	11.56	0.00	4.97	
	01/14/91	<50	<0.5	<0.5	<0.5	<0.5	11.44	0.00	5.09	
	04/03/91	150	3	<0.5	12	9	10.00	0.00	6.53	
	07/17/91	290	2.3	0.4	52	0.4	11.16	0.00	5.37	
	10/07/91	<50	<0.5	<0.5	4.6	<0.5	11.39	0.00	5.14	
	02/04/92	<50	<0.5	<0.5	2.8	<0.5	11.02	0.00	5.51	
	02/04/92	<50	<0.5	<0.5	2.5	0.5	11.02	0.00	5.51	
	04/01/92	480	4.9	<0.5	64	4.3	9.83	0.00	6.70	
	06/25/92	<50	<0.5	<0.5	<0.5	<0.5	10.88	0.00	5.65	
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	11.24	0.00	5.29	
	12/16/92	56	<0.5	<0.5	1.0	<0.5	10.40	0.00	6.13	
	03/18/93	<50	<0.5	<0.5	<0.5	<1.5	9.48	0.00	7.05	
	06/11/93	<50	<0.5	<0.5	<0.5	<1.5	9.61	0.00	6.92	
	09/08/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---	
	09/17/93	---	---	---	---	---	10.07	0.00	6.46	
	12/23/93	<50	---	1.2	1.5	<0.5	3.2	9.83	0.00	6.70
03/07/94	<50	---	---	1.1	6.7	1.8	9.20	0.00	7.33	
C-5 14.70	12/06/89	---	---	---	---	---	9.97	0.00	4.73	
	10/30/90	<50	0.8	<0.5	<0.5	0.5	---	0.00	---	
	01/14/91	54	<0.5	<0.5	<0.5	<0.5	9.87	0.00	4.83	
	04/03/91	1,800	390	200	52	170	8.72	0.00	5.98	
	07/17/91	170	120	5.3	12	20	9.63	0.00	5.07	
	10/07/91	<50	1.1	<0.5	<0.5	<0.5	9.83	0.00	4.87	
	02/04/92	91	16	<0.5	2.4	2.0	9.53	0.00	5.17	
	04/01/92	960	200	5.4	21	33	8.57	0.00	6.13	
	06/25/92	800	2.5	<0.5	1.3	7.3	9.44	0.00	5.26	
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	9.72	0.00	4.98	
	12/16/92	81	5.4	1.2	1.5	4.3	9.07	0.00	5.63	
	03/18/93	<50	<0.5	<0.5	<0.5	<1.5	8.44	0.00	6.26	
	06/11/93	<50	1.6	<0.5	<0.5	<1.5	8.53	0.00	6.17	
	09/08/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---	
	09/17/93	---	---	---	---	---	8.89	0.00	5.81	
	12/23/93	<50	---	5.5	1.3	0.7	4.0	8.68	0.00	6.02
	03/07/94	<50	---	---	21	27	70	8.18	0.00	6.52

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
C-6 13.87	12/06/89	---	---	---	---	---	---	0.00	---
	10/30/90	<50	<0.5	<0.5	<0.5	<0.5	9.43	0.00	4.44
	01/14/91	<0.5	<0.5	<0.5	<0.5	<0.5	9.41	0.00	4.46
	04/03/91	<0.5	<0.5	<0.5	<0.5	<0.5	8.66	0.00	5.21
	07/17/91	<0.5	<0.5	<0.5	<0.5	<0.5	9.25	0.00	4.62
	10/07/91	67	<0.5	0.6	<0.5	0.6	9.34	0.00	4.53
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	9.16	0.00	4.71
	04/01/92	<50	<0.5	<0.5	<0.5	<0.5	8.59	0.00	5.28
	06/25/92	<50	<0.5	<0.5	<0.5	<0.5	9.11	0.00	4.76
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	9.28	0.00	4.59
	12/16/92	120	9.3	1.9	2.7	7.4	8.88	0.00	4.99
	03/18/93	<50	<0.5	<0.5	<0.5	<1.5	8.35	0.00	5.52
	06/11/93	<50	<0.5	0.7	<0.5	<1.5	8.21	0.00	5.66
	09/08/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---
	09/17/93	---	---	---	---	---	8.37	0.00	5.50
	12/23/93	<50	1.4	1.0	<0.5	3.5	8.29	0.00	5.58
	03/07/94	<50	---	<0.5	<0.5	<0.5	8.00	0.00	5.87
C-7 15.78	02/07/91	<50	<0.5	0.8	<0.5	<0.5	9.88	0.00	5.90
	04/03/91	<50	<0.5	<0.5	<0.5	<0.5	9.04	0.00	6.74
	07/17/91	<50	<0.5	<0.5	<0.5	<0.5	9.86	0.00	5.92
	10/07/91	<50	<0.5	<0.5	<0.5	<0.5	10.10	0.00	5.68
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	9.74	0.00	6.04
	04/01/92	<50	<0.5	<0.5	<0.5	<0.5	8.96	0.00	6.82
	06/25/92	<50	<0.5	<0.5	<0.5	<0.5	9.62	0.00	6.16
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	9.75	0.00	6.03
	12/16/92	---	---	---	---	---	9.41	0.00	6.37
	03/18/93	<50	<0.5	<0.5	<0.5	<1.5	8.45	0.00	7.33
	06/11/93	<50	<0.5	<0.5	<0.5	<1.5	8.71	0.00	7.07
	09/08/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---
	09/17/93	---	---	---	---	---	9.05	0.00	6.73
	12/23/93	<50	1.9	1.4	<0.5	3.6	8.85	0.00	6.93
	03/07/94	<50	---	1.3	<0.5	0.6	8.43	0.00	7.35

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
CR-1	10/30/90	9,600	7,100	65	610	190	10.51	0.00	---
	01/14/91	1,500	3,200	52	190	77	10.29	0.00	---
	07/17/91	15,000	9,300	220	680	530	10.19	0.00	---
	10/07/91	17,000	7,600	50	440	68	10.46	0.00	---
	10/07/91	14,000	9,400	52	430	110	10.46	0.00	---
	02/04/92	19,000	6,100	32	350	100	10.12	0.00	---
	04/01/92	29,000	5,300	820	380	1,200	9.24	0.00	---
	06/25/92	12,000	3,300	280	210	460	10.03	0.00	---
	09/17/92	---	---	---	---	---	10.30	0.00	---
	12/16/92	---	---	---	---	---	9.59	Sheen	---
	03/18/93	---	---	---	---	---	8.82	0.05	---
	06/11/93	---	---	---	---	---	9.58	0.87	---
	09/08/93	---	---	---	---	---	---	---	---
	09/17/93	---	---	---	---	---	---	---	---
	12/23/93	---	---	---	---	---	9.02	0.02	---
03/07/94	---	---	---	---	---	8.41	0.04	---	
TBLB	10/30/90	---	---	---	---	---	---	---	---
	01/14/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	02/07/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/03/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/17/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/07/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/01/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/25/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/16/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	03/18/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---
	06/11/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/08/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---
	09/17/93	---	---	---	---	---	---	---	---
12/23/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	
03/07/94	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Well ID/ Elevation	Sample Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
Rinsate	10/30/90	<50	<0.5	0.6	<0.5	<0.5	---	---	---
	10/07/91	<50	<0.5	0.5	<0.5	<0.5	---	---	---
	02/04/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/01/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/25/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/17/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/16/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/11/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/23/93	<50	0.8	1.0	<0.5	0.6	---	---	---
	03/07/94	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

TPH-G = Total petroleum hydrocarbons-as-gasoline
DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
WTE = Water table elevation
--- = Not applicable, not sampled, not measured

Concentrations in parts per billion
Data from December 6, 1989, to December 16, 1992, are from Alton GeoSciences report dated January 26, 1993.

TABLE 2
PRODUCT RECOVERY PROGRAM
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

Date	Well ID	Amount Product Bailed (gallons)	Total Product Bailed (gallons)
10/01/93	CR1*	0	0
10/01/93	C-1	0.01	0.01
10/01/93	C-C	0.01	0.01
10/01/93	C-B	0.03	0.03

* Pumping well, unable to bail product.

ATTACHMENT 3

Field Data Sheets

Project Name: Chevron - Oak.

Date: 3.7.94

Site Address: 609 Oak St., Oakland

Page _____ of _____

Project Number: 020104084.0610

Project Manager: Tim Watchers

Well ID: C-4

DTW Measurements:

Well Diameter: 2

Initial: /
Recharge: /

Calc Well Volume: 3.28 gal
Well Volume: 3 9.8 gal

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

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

Time	Temp <u>X</u> C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:25	17.3	.513	6.62	0		clear
10:29	17.5	.503	6.63	4		"
10:31	17.7	.504	6.62	8		"
10:32	17.8	.499	6.62	10		"

ATTACHMENT 3

Laboratory Report



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (800) 521-6109 / (510) 313-0857 / fax (510) 229-0916

GROUNDWATER TECHNOLOGY, INC.
Attn: TIM WATCHERS

Project 9-4587
Reported 03/13/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30325- 1	TB-LB	03/07/94	03/10/94 Water
30325- 2	RBC3	03/07/94	03/10/94 Water
30325- 3	C3	03/07/94	03/10/94 Water
30325- 5	C7	03/07/94	03/10/94 Water
30325- 7	C4	03/07/94	03/10/94 Water
30325- 9	C5	03/07/94	03/10/94 Water
30325-11	C6	03/07/94	03/10/94 Water
30325-13	C2	03/07/94	03/11/94 Water

RESULTS OF ANALYSIS

Laboratory Number: 30325- 1 30325- 2 30325- 3 30325- 5 30325- 7

Gasoline:	ND<50	ND<50	ND<50	ND<50	60
Benzene:	ND<0.5	ND<0.5	ND<0.5	2.4	0.7
Toluene:	ND<0.5	ND<0.5	ND<0.5	1.3	1.1
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.7
Total Xylenes:	ND<0.5	ND<0.5	ND<0.5	0.6	1.8
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 30325- 9 30325-11 30325-13

Gasoline:	460	ND<50	1100
Benzene:	180	0.8	420
Toluene:	21	ND<0.5	6.5
Ethyl Benzene:	27	ND<0.5	110
Total Xylenes:	70	ND<0.5	69
Concentration:	ug/L	ug/L	ug/L



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (800) 521-6109 / (510) 313-0857 / fax (510) 229-0916

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 30325

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	87/92	6%	70-130
Benzene:	101/80	23%	70-130
Toluene:	104/85	20%	70-130
Ethyl Benzene:	88/72	20%	70-130
Total Xylenes:	103/84	20%	70-130

Atsaneh Sahy
Senior Chemist

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

50225

Chain-of-Custody-Record

Chevron U.S.A. Inc.
 P.O. BOX 5004
 San Ramon, CA 94583
 FAX (415)842-9591

Chevron Facility Number: 9-4587
 Facility Address: 609 Oak St Oakland
 Consultant Project Number: 02010411-0610
 Consultant Name: Groundwater Technology, Inc.
 Address: 4057 Port Chicago Hwy, Concord, CA. 94520
 Project Contact (Name): Tim Watchers
 (Phone): 510-671-2387 (Fax Number): _____

Chevron Contact (Name): Mark Miller
 (Phone): 510/842-8134
 Laboratory Name: Superior
 Laboratory Release Number: 832-7510
 Samples Collected by (Name): MARK GARCIA
 Collection Date: 3/7/99
 Signature: [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Chloroal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analysis To Be Performed											Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	PHH			
TB-LB		2	W		1145	HCl	Y	X											
RBC3		1			1150			X											
L3		3			1150			X											
RBC7		1			1200													X	
C7		3			1200			X											
RBC4		1			1205														X
C4		3			1205			X											
RBC5		1			210														X
C5		3			210			X											
RBC6		1			1215														X
C6		3			1215			X											
RBC2		1			1220														X
C2		3	W		1220	V	V	X											

NOTE: DO NOT BILL TB-LB SAMPLES

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>GTI</u>	Date/Time: <u>3-7-99</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>GTI</u>	Date/Time: <u>3-8-99</u>	Turn Around Time (Circle Choice) <input type="checkbox"/> 24 Hrs. <input type="checkbox"/> 48 Hrs. <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input checked="" type="checkbox"/> As Contracted
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>GTI</u>	Date/Time: <u>3/8/99</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>Aew</u>	Date/Time: <u>3/8/99 11:02 AM</u>	
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>Aew</u>	Date/Time: <u>3/8/99 11:02 AM</u>	Received For Laboratory By (Signature): <u>[Signature]</u>		Date/Time: <u>3/8/99 11:15</u>	