

ENVIRONMENTAL AFFAIRS OFFICE

JUN 16 1994

HAYWARD FIRE DEPARTMENT



Chevron

June 2, 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

Mr. Sumadhu Arigala
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

**Re: Chevron Service Station #9-0260
21995 Foothill Boulevard, Hayward, CA**

Dear Mr. Arigala:

Enclosed is the quarterly Groundwater Monitoring and Sampling Activities report dated April 15, 1994, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. Currently, monitor wells MW-6, MW-9, MW-11, and MW-13 are sampled during the 1st and 3rd quarters and monitor wells MW-4, MW-5, MW-7, MW-8, and MW-12 are sampled during the 2nd and 4th quarters. Monitor well MW-10 is sampled during the first quarter only. Monitor wells MW-14, MW-15, MW-16, and MW-17 are sampled during all four quarters. Depth to water measurements are taken from all wells on a quarterly basis to maintain knowledge of ground water flow direction and gradient.

As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. The levels of dissolved hydrocarbon constituents in the ground water samples analyzed were consistent with previous observations at the site. Separate-phase hydrocarbons (SPH) were not detected in any of the monitor wells during the past quarter.

Depth to ground water was measured at approximately 10.9 to 22.8 feet below grade and the direction of flow is to the southwest.

The ground water extraction system at this site has removed approximately 178,000 gallons of hydrocarbon impacted ground water to date.

A vacuum-enhanced aquifer pumping test was recently performed at this site. Using the data from this test, we are currently evaluating additional remediation options. We anticipate formulating a cost-effective remedial approach by the end of the second quarter of 1994.

Chevron will continue to monitor and sample all wells at this site in accordance with the schedule outlined above.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

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. 020104113

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. 9-0260
21995 Foothill Boulevard, Hayward, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the groundwater monitoring and sampling data collected on March 8, 1994. Thirteen of the fourteen groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Groundwater monitoring well MW-4 is a pumping well and was not monitored or sampled. 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, monitoring wells MW-6, MW-9, MW-10, MW-13, MW-14, MW-15, MW-16 and MW-17 were purged and sampled. Monitoring well MW-11 is a pumping well and was not 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. Monitoring-well purge water was removed by Groundwater Technology and transported 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

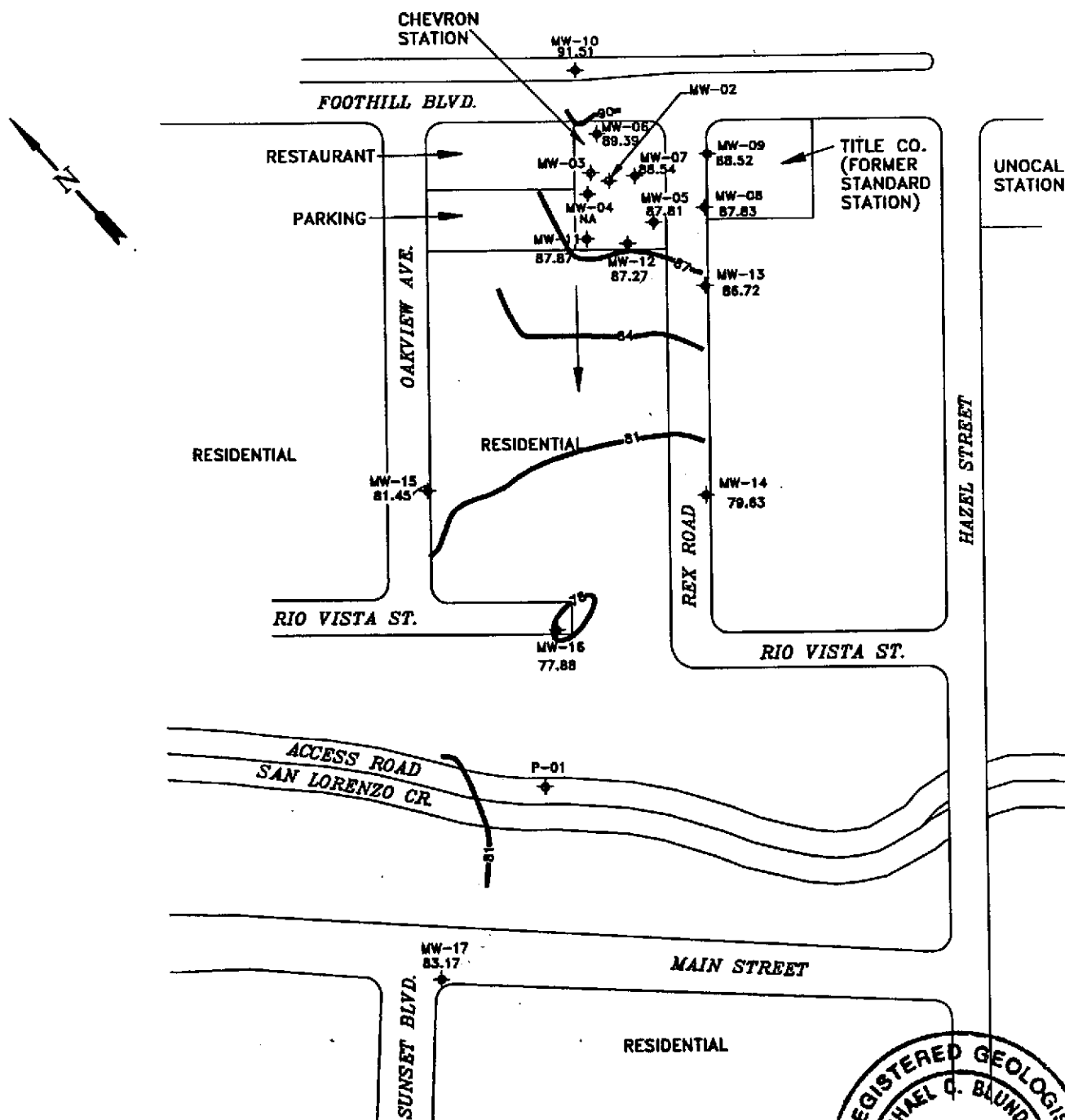
PR KJ

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

ATTACHMENT 1

Figure

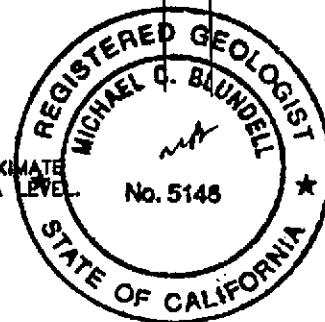


LEGEND

- ◆ MONITORING WELL
- ◆ PIEZOMETER
- 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**

0 FEET 180
SCALE

POTENTIOMETRIC SURFACE MAP (3/8/94)

CLIENT:

CHEVRON U.S.A. PRODUCTS CO.
SERVICE STATION NO. 9-0260

FILE:

4113PSM, (1:180)

PROJECT NO.:

02010-4113

PM

Jaw

PE/RG

MA

LOCATION:

21995 FOOTHILL BLVD.
HAYWARD, CALIFORNIA

REV.

DES.

TW

DET.

SS

DATE:

4/8/94

FIGURE:

1

ATTACHMENT 2

Table

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-4 100.75 (2nd and 4th quarters)	02/05/88	88,000	24,000	19,000	1,700	10,000	---	---	---	---	---	---
	06/15/88	95,000	45,000	30,000	2,100	17,000	---	---	---	12.92	---	87.83
	09/27/88 ^a	500,000	41,000	27,000	<5,000	16,000	<5,000	<5,000	---	14.22	---	86.53
	09/27/88 ^{ab}	88,000	1,200	4,100	1,600	12,000	270	230	---	---	---	---
	01/05/89	64,000	41,000	29,000	2,700	14,000	---	---	---	13.20	---	87.55
	04/06/89	---	---	---	---	---	---	---	---	12.32	---	88.43
	06/28/89	110,000	34,000	24,000	2,400	13,000	---	---	---	14.25	---	86.50
	10/03/89	240,000	36,000	31,000	3,200	19,000	---	---	---	14.75	---	86.00
	01/04/90	130,000	33,000	28,000	2,400	14,000	---	---	---	14.75	---	86.00
	04/03/90	110,000	41,000	32,000	2,900	17,000	---	---	---	13.81	---	86.94
	07/03/90	180,000	32,000	30,000	2,600	15,000	---	---	---	14.06	---	86.69
	11/06/90	170,000	31,000	30,000	2,700	17,000	---	---	---	15.66	---	85.09
	01/04/91	---	---	---	---	---	---	---	---	15.18	---	85.57
	04/03/91	130,000	21,000	24,000	2,300	14,000	---	---	---	11.00	---	89.75
	07/02/91	---	---	---	---	---	---	---	---	14.25	---	86.50
	10/02/91	240,000	27,000	33,000	2,600	16,000	---	---	---	16.16	---	84.59
	01/02/92	---	---	---	---	---	---	---	---	15.26	---	85.49
	04/07/92	---	---	---	---	---	---	---	---	12.38	---	88.37
	08/13/92	---	---	---	---	---	---	---	---	16.68	---	84.05
100.73	12/03/92	1,300,000	17,000	41,000	12,000	90,000	---	---	---	16.17	---	84.58
	03/25/93	---	---	---	---	---	---	---	---	10.50	---	90.23
	06/23/93	---	---	---	---	---	---	---	---	---	---	---
	09/21/93	---	---	---	---	---	---	---	---	---	---	---
	12/02/93	---	---	---	---	---	---	---	---	---	---	---
	03/08/94	---	---	---	---	---	---	---	---	---	---	---

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-5 99.97 (2nd and 4th quarters)	02/05/88	80,000	16,000	15,000	2,600	17,000	---	---	---	---	---	---
	06/15/88	77,000	42,000	38,000	2,500	16,000	---	---	---	12.30	---	87.67
	09/27/88 ^a	470,000	39,000	32,000	<5,000	16,000	<5,000	<5,000	---	13.25	---	86.72
	09/27/88 ^{ab}	48,000	1,800	3,500	1,600	10,000	410	420	---	---	---	---
	01/05/89	82,000	44,000	37,000	2,400	14,000	---	---	---	12.70	---	87.27
	04/06/89	---	---	---	---	---	---	---	---	12.22	---	87.75
	06/28/89	80,000	36,000	24,000	2,400	13,000	---	---	---	13.81	---	86.16
	10/03/89	240,000	40,000	35,000	2,600	15,000	---	---	---	14.27	---	85.70
	01/04/90	130,000	37,000	31,000	2,400	13,000	---	---	---	14.31	---	85.66
	04/03/90	120,000	41,000	33,000	2,500	14,000	---	---	---	13.50	---	86.47
	07/03/90	200,000	28,000	25,000	1,800	10,000	---	---	---	13.64	---	86.33
	11/06/90	370,000	38,000	36,000	4,700	31,000	---	---	---	15.14	---	84.83
	01/04/91	---	---	---	---	---	---	---	---	14.90	0.01	85.08
	04/03/91	140,000	36,000	32,000	2,700	17,000	---	---	---	11.56	---	88.41
	07/02/91	---	---	---	---	---	---	---	---	13.89	---	86.08
	10/02/91	230,000	34,000	31,000	2,700	16,000	---	---	---	15.26	---	84.71
	01/02/92	---	---	---	---	---	---	---	---	14.97	---	85.00
	04/07/92	220,000	35,000	30,000	2,500	14,000	---	---	---	13.44	---	86.53
	08/13/92	---	---	---	---	---	---	---	---	15.61	---	84.36
	12/03/92	---	---	---	---	---	---	---	---	16.29	<0.02 ^c	83.68
	03/25/93	---	---	---	---	---	---	---	---	10.97	---	89.00
	06/23/93	---	---	---	---	---	---	---	---	12.60	0.04	87.40
	09/21/93	---	---	---	---	---	---	---	---	14.00	0.03	85.99
	12/02/93	---	---	---	---	---	---	---	---	14.27	0.04	85.73
	03/08/94	---	---	---	---	---	---	---	---	12.16	0.00	87.81

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-6 101.43 (1st and 3rd quarters)	02/05/88	53,000	5,100	4,400	2,100	14,000	---	---	---	---	---	---
	06/15/88	33,000	9,200	5,500	520	20,000	---	---	---	13.51	---	87.92
	09/27/88 ^a	17,000	2,200	2,800	1,700	5,100	130	<10	---	14.56	---	86.87
	01/05/89	37,000	5,000	3,400	2,200	10,000	---	---	---	13.48	---	87.95
	04/06/89	---	---	---	---	---	---	---	---	12.60	---	88.83
	06/28/89	80,000	7,000	4,100	2,000	9,700	---	---	---	14.58	---	86.85
	10/03/89	110,000	8,500	5,100	2,600	14,000	---	---	---	13.03	---	88.40
	01/04/90	59,000	5,200	2,600	2,000	11,000	---	---	---	15.08	---	86.35
	04/03/90	31,000	6,600	2,600	2,200	12,000	---	---	---	14.06	---	87.37
	07/03/90	66,000	5,800	2,900	2,000	9,800	---	---	---	14.28	---	87.15
	11/06/90	---	---	---	---	---	---	---	---	16.10	---	85.33
	01/04/91	50,000	5,600	2,200	1,800	9,400	---	---	---	15.52	---	85.91
	04/03/91	---	---	---	---	---	---	---	---	11.03	---	90.40
	07/02/91	81,000	11,000	2,700	2,100	13,000	---	---	---	14.44	---	86.99
	10/02/91	---	---	---	---	---	---	---	---	16.22	---	85.21
	01/02/92	67,000	7,500	1,900	1,800	9,500	---	---	---	15.71	---	85.72
	04/07/92	---	---	---	---	---	---	---	---	13.47	---	87.96
	08/13/92	---	---	---	---	---	---	---	---	15.97	---	85.46
	12/03/92	---	---	---	---	---	---	---	---	16.62	---	<84.81
	03/25/93	110,000	12,000	2,900	4,200	14,000	---	---	---	10.58	---	90.85
	06/23/93	---	---	---	---	---	---	---	---	13.01	0.00	88.42
	09/21/93	62,000	12,000	1,400	2,100	12,000	---	---	---	14.74	0.00	86.69
	12/02/93	---	---	---	---	---	---	---	---	14.87	0.00	86.56
	03/08/94	61,000	7,000	1,500	1,500	7,400	---	---	---	12.04	0.00	89.39

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-7 100.91 (2nd and 4th quarters)	02/05/88	81,000	34,000	36,000	2,400	16,000	---	---	---	---	---	---
	06/15/88	77,000	40,000	41,000	1,400	24,000	---	---	---	12.57	---	88.34
	09/27/88*	30,000	9,700	8,900	400	4,100	2,600	<10	---	13.60	---	87.31
	01/05/89	96,000	36,000	38,000	2,800	16,000	---	---	---	12.98	---	87.93
	04/06/89	---	---	---	---	---	---	---	---	12.34	---	88.57
	06/28/89	110,000	31,000	30,000	2,600	16,000	---	---	---	14.08	---	86.83
	10/03/89	230,000	34,000	34,000	2,400	15,000	---	---	---	14.53	---	86.38
	01/04/90	150,000	41,000	40,000	2,400	15,000	---	---	---	14.49	---	86.42
	04/03/90	100,000	31,000	28,000	2,100	16,000	---	---	---	13.66	---	87.25
	07/03/90	190,000	30,000	27,000	1,800	13,000	---	---	---	13.86	---	87.05
	11/06/90	160,000	27,000	25,000	1,900	15,000	---	---	---	15.58	---	85.33
	01/04/91	---	---	---	---	---	---	---	---	15.25	---	85.66
	04/03/91	240,000	40,000	36,000	2,400	18,000	---	---	---	11.41	---	89.50
	07/02/91	---	---	---	---	---	---	---	---	14.18	---	86.73
	10/02/91	220,000	26,000	27,000	2,500	18,000	---	---	---	15.78	---	85.13
	01/02/92	---	---	---	---	---	---	---	---	15.45	---	85.46
	04/07/92	260,000	27,000	26,000	2,400	15,000	---	---	---	13.48	---	87.43
	08/13/92	---	---	---	---	---	---	---	---	15.89	---	85.02
	12/03/92	330,000	29,000	31,000	3,300	18,000	---	---	---	16.43	---	84.48
	03/25/93	---	---	---	---	---	---	---	---	11.10	---	89.81
	06/23/93	---	---	---	---	---	---	---	---	13.63	1.06	88.13
	09/21/93	---	---	---	---	---	---	---	---	14.88	0.67	86.57
	12/02/93	---	---	---	---	---	---	---	---	14.74	0.19	86.32
	03/08/94	---	---	---	---	---	---	---	---	12.37	0.00	88.54

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-8	10/27/88	190,000	27,000	43,000	2,200	15,000	<500	<500	---	---	---	---
	01/05/89	87,000	24,000	39,000	3,000	15,000	---	---	---	12.02	---	87.65
99.67 (2nd and 4th quarters)	04/06/89	---	---	---	---	---	---	---	---	11.78	---	87.89
	06/28/89	120,000	22,000	35,000	2,900	16,000	---	---	---	13.40	---	86.27
	10/03/89	---	---	---	---	---	---	---	---	13.84	0.11	85.92
	01/04/90	---	---	---	---	---	---	---	---	13.99	0.10	85.76
	04/03/90	---	---	---	---	---	---	---	---	13.07	0.30	86.84
	07/03/90	---	---	---	---	---	---	---	---	13.11	0.04	86.59
	11/06/90	---	---	---	---	---	---	---	---	14.77	0.15	85.02
	01/04/91	---	---	---	---	---	---	---	---	14.59	0.18	85.22
	04/03/91	---	---	---	---	---	---	---	---	11.53	0.05	88.18
	07/02/91	---	---	---	---	---	---	---	---	13.71	0.48	86.34
	10/02/91	---	---	---	---	---	---	---	---	14.84	0.27	85.05
	01/02/92	---	---	---	---	---	---	---	---	15.05	0.30	84.86
	04/07/92	---	---	---	---	---	---	---	---	12.17	0.29	87.73
	08/13/92	---	---	---	---	---	---	---	---	14.96	0.31	84.96
	12/03/92	---	---	---	---	---	---	---	---	15.85	0.78	84.44
	03/25/93	---	---	---	---	---	---	---	---	10.78	---	88.89
	06/23/93	---	---	---	---	---	---	---	---	12.27	0.25	87.60
	09/21/93	---	---	---	---	---	---	---	---	13.68	0.32	86.25
	12/02/93	---	---	---	---	---	---	---	---	14.00	0.24	85.86
	03/08/94	---	---	---	---	---	---	---	---	11.84	0.00	87.83

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-9	10/27/88	50,000	2,000	9,900	2,000	14,000	<500	<500	---	---	---	---
	01/05/89	55,000	670	8,900	3,400	16,000	---	---	---	12.63	---	88.52
101.15	04/06/89	---	---	---	---	---	---	---	---	12.46	---	88.69
(1st and	06/28/89	100,000	510	4,500	2,600	13,000	---	---	---	14.04	---	87.11
3rd	10/03/89	130,000	540	8,000	3,200	17,000	---	---	---	14.61	---	86.54
quarters)	01/04/90	83,000	600	4,600	2,600	14,000	---	---	---	14.59	---	86.56
	04/03/90	52,000	1,600	5,400	3,100	16,000	---	---	---	13.75	---	87.40
	07/03/90	100,000	520	5,400	3,200	16,000	---	---	---	13.84	---	87.31
	11/06/90	---	---	---	---	---	---	---	---	15.42	---	85.73
	01/04/91	59,000	1,100	5,600	2,500	13,000	---	---	---	15.37	---	85.78
	04/03/91	---	---	---	---	---	---	---	---	12.27	---	88.88
	07/02/91	130,000	1,900	7,600	3,600	20,000	---	---	---	14.17	---	86.98
	10/02/91	---	---	---	---	---	---	---	---	15.68	---	85.47
	01/02/92	100,000	3,300	8,200	2,800	14,000	---	---	---	15.65	---	85.50
	04/07/92	---	---	---	---	---	---	---	---	13.84	---	87.31
	08/13/92	45,000	1,300	3,000	1,500	7,100	---	---	---	15.50	---	85.65
	12/03/92	---	---	---	---	---	---	---	---	16.66	---	84.49
	03/25/93	220,000	540	3,200	2,100	18,000	---	---	---	11.48	---	89.67
	06/23/93	---	---	---	---	---	---	---	---	12.83	---	88.32
	09/21/93	54,000	1,900	3,400	1,700	9,100	---	---	---	14.31	0.00	86.84
	12/02/93	---	---	---	---	---	---	---	---	14.70	0.01	86.46
	03/08/94	49,000	800	780	390	3,600	---	---	---	12.63	0.00	88.52

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-11	06/28/89	60,000	36,000	13,000	2,500	12,000	---	---	d	14.33	---	85.64
	10/03/89	14,000	4,200	1,400	240	1,300	---	---	---	14.61	---	85.36
	01/04/90	82,000	33,000	11,000	2,000	10,000	---	---	---	14.55	---	85.42
	04/03/90	78,000	35,000	12,000	2,300	12,000	---	---	---	13.82	---	86.15
	07/03/90	140,000	32,000	12,000	2,100	10,000	---	---	---	14.00	---	85.97
	11/06/90	---	---	---	---	---	---	---	---	15.56	---	84.41
	01/04/91	---	---	---	---	---	---	---	---	14.88	0.30	---
	04/03/91	340,000	29,000	14,000	3,700	24,000	---	---	---	10.75	0.21	---
	07/02/91	130,000	27,000	14,000	2,200	12,000	---	---	---	13.97	0.02	---
	10/02/91	---	---	---	---	---	---	---	---	15.60	---	---
99.97 (1st and 3rd quarters)	01/02/92	77,000	18,000	14,000	1,900	10,000	---	---	---	14.51	---	85.46
	04/07/92	---	---	---	---	---	---	---	---	13.13	---	86.84
	08/13/92	---	---	---	---	---	---	---	---	17.04	---	82.53
	12/03/92	---	---	---	---	---	---	---	---	15.59	---	83.98
	03/25/93	110,000	13,000	2,100	5,900	9,800	---	---	---	10.06	---	89.51
	06/23/93	---	---	---	---	---	---	---	---	---	---	---
	09/21/93	---	---	---	---	---	---	---	---	---	---	---
	12/02/93	---	---	---	---	---	---	---	---	---	---	---
	03/08/94	---	---	---	---	---	---	---	---	11.70	0.00	87.87

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-12	06/28/89	55,000	30,000	21,000	2,900	19,000	---	---	d	14.10	---	85.54
	10/03/89	170,000	30,000	23,000	2,700	15,000	---	---	---	14.30	---	85.34
	01/04/90	110,000	24,000	19,000	2,300	12,000	---	---	---	14.35	---	85.29
	04/03/90	89,000	41,000	28,000	3,300	17,000	---	---	---	13.59	---	86.05
	07/03/90	170,000	27,000	20,000	2,200	12,000	---	---	---	13.77	---	85.87
	11/06/90	110,000	28,000	21,000	2,400	14,000	---	---	---	15.19	0.06	84.45
	01/04/91	---	---	---	---	---	---	---	---	14.52	---	---
	04/03/91	---	---	---	---	---	---	---	---	10.91	---	---
	04/09/91	170,000	39,000	17,000	2,400	14,000	---	---	---	---	---	---
	07/02/91	---	---	---	---	---	---	---	---	13.51	---	---
99.64 (2nd and 4th quarters)	10/02/91	170,000	27,000	15,000	2,600	17,000	---	---	---	14.93	---	---
	01/02/92	---	---	---	---	---	---	---	---	14.45	---	85.19
	04/07/92	---	---	---	---	---	---	---	---	13.05	---	86.59
	08/13/92	---	---	---	---	---	---	---	---	17.39	---	81.83
	12/03/92	2,400,000	19,000	21,000	14,000	110,000	---	---	---	15.34	---	83.88
	03/25/93	---	---	---	---	---	---	---	---	10.37	---	88.85
	06/23/93	110,000	30,000	19,000	2,000	12,000	---	---	---	12.21	0.00	87.01
	09/21/93	---	---	---	---	---	---	---	---	---	---	---
	12/02/93	---	---	---	---	---	---	---	---	---	---	---
	03/08/94	---	---	---	---	---	---	---	---	11.95	0.00	87.27

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-13 98.47 (1st and 3rd quarters)	06/28/89	54,000	12,000	10,000	1,900	15,000	---	---	d	13.22	---	85.25
	10/03/89	120,000	10,000	10,000	2,300	15,000	---	---	---	13.54	---	84.93
	01/04/90	87,000	6,800	10,000	2,000	12,000	---	---	---	13.64	---	84.83
	04/03/90	53,000	12,000	14,000	2,900	17,000	---	---	---	12.95	---	85.52
	07/03/90	90,000	8,400	11,000	2,000	11,000	---	---	---	13.05	---	85.42
	11/06/90	---	---	---	---	---	---	---	---	14.12	---	84.35
	01/04/91	72,000	5,500	12,000	2,300	12,000	---	---	---	14.05	---	84.42
	04/03/91	---	---	---	---	---	---	---	---	11.41	---	87.06
	07/02/91	120,000	12,000	13,000	2,500	14,000	---	---	---	13.17	---	85.30
	10/02/91	---	---	---	---	---	---	---	---	14.24	---	84.23
	01/02/92	---	---	---	---	---	---	---	---	14.13	0.03	84.34
	04/07/92	---	---	---	---	---	---	---	---	13.06	---	85.41
	08/13/92	84,000	7,400	11,000	2,600	13,000	---	---	---	14.26	---	84.21
	12/03/92	---	---	---	---	---	---	---	---	14.82	---	83.65
	03/25/93	97,000	5,200	2,500	7,200	12,000	---	---	---	10.73	---	87.74
	06/23/93	---	---	---	---	---	---	---	---	11.97	0.00	86.50
	09/21/93	80,000	7,600	9,000	2,900	14,000	---	---	---	13.08	0.00	85.39
	12/02/93	---	---	---	---	---	---	---	---	13.45	0.00	85.02
	03/08/94	78,000	5,300	7,600	2,600	10,000	---	---	---	11.75	0.00	86.72

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-14 99.68 (All quarters)	08/29/90	970	4	2	0.7	2	1	---	---	21.39	---	78.29
	11/06/90	920	10	10	4	9	---	---	---	21.62	---	78.06
	01/04/91	1,000	<0.5	4.0	2.6	4.2	---	---	---	21.69	---	77.99
	04/03/91	1,200	380	6	7	18	---	---	---	19.53	---	80.15
	07/02/91	460	27	1.0	1.2	1.0	---	---	---	20.93	---	78.75
	10/02/91	480	6.7	0.8	1.4	1.8	---	---	---	21.52	---	78.16
	01/02/92	1,100	2.4	1.5	6.2	18	---	---	---	21.43	---	78.25
	04/07/92	290	<0.5	1.4	<0.5	1.2	---	---	---	21.36	---	78.32
	08/13/92	370	10	1.2	<0.5	0.9	---	---	---	21.07	---	78.61
	12/03/92	230	1.3	<0.5	<0.5	<0.5	---	---	---	21.67	---	78.01
	03/25/93	390	57	2.1	1.3	1.7	---	---	---	19.03	---	80.65
	06/23/93	4,400	460	220	16	62	---	---	---	19.94	0.00	79.74
	09/21/93	680	8.7	1.7	3.2	12	---	---	---	20.65	0.00	79.03
	12/02/93	900	0.8	7	3	7	---	---	---	21.05	0.00	78.63
	03/08/94	1,700	2.4	7.7	5.6	14	---	---	---	20.05	0.00	79.63
MW-15 96.06 (All quarters)	08/29/90	2,000	26	2	72	110	<0.5	---	---	16.58	---	79.48
	11/06/90	1,300	40	5	45	63	---	---	---	17.43	---	78.63
	01/04/91	1,700	46	2.8	58	86	---	---	---	16.37	---	79.69
	04/03/91	2,100	74	0.8	44	85	---	---	---	12.46	---	83.60
	07/02/91	1,700	39	<0.5	35	46	---	---	---	16.53	---	79.53
	10/02/91	1,100	50	<0.5	40	33	---	---	---	17.33	---	78.73
	01/02/92	1,300	51	<0.5	30	30	---	---	---	16.46	---	79.60
	04/07/92	2,600	98	<5	64	36	---	---	---	14.70	---	81.36
	08/13/92	510	55	<0.5	35	2.8	---	---	---	16.72	---	79.34
	12/03/92	1,000	64	0.9	22	4.4	---	---	---	17.43	---	78.63
	03/25/93	1,300	86	52	0.7	7.7	---	---	---	13.33	---	82.73
	06/23/93	7,300	34	<0.5	85	160	---	---	---	15.23	0.00	80.83
	09/21/93	1,500	39	<0.5	32	33	---	---	---	16.32	0.00	79.74
	12/02/93	990	28	4	8	10	---	---	---	16.57	0.00	79.49
	03/08/94	3,400	44	4.0	28	53	---	---	---	14.61	0.00	81.45

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
MW-16 98.15 (All quarters)	08/29/90	11,000	6,000	51	1,100	20	<0.5	---	---	20.89	---	77.26
	11/06/90	15,000	6,300	340	1,300	540	---	---	---	21.27	---	76.88
	01/04/91	16,000	6,800	820	1,300	1,500	---	---	---	21.63	---	76.52
	04/03/91	45,000	7,300	2,200	1,800	4,900	---	---	---	19.32	---	78.83
	07/02/91	30,000	6,400	530	1,500	1,800	---	---	---	20.68	---	77.47
	10/02/91	24,000	4,600	450	1,400	1,600	---	---	---	21.18	---	76.97
	01/02/92	20,000	4,700	240	1,200	1,100	---	---	---	21.30	---	76.85
	04/07/92	40,000	5,000	980	1,100	2,100	---	---	---	20.19	---	77.96
	08/13/92	17,000	4,500	240	860	530	---	---	---	20.77	---	77.38
	12/03/92	39,000	4,600	410	1,100	2,200	---	---	---	21.44	---	76.71
	03/25/93	39,000	5,500	1,400	690	2,000	---	---	---	18.83	---	79.32
	06/23/93	29,000	6,600	1,200	1,400	3,700	---	---	---	19.72	0.00	78.43
	09/21/93	36,000	6,300	340	1,200	1,800	---	---	---	20.38	0.00	77.77
	12/02/93	28,000	5,600	230	900	820	---	---	---	20.84	0.00	77.31
	03/08/94	35,000	6,500	760	1,000	1,300	---	---	---	20.27	0.00	77.88
MW-17 106.00 (All quarters)	08/13/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	23.30	---	82.70
	12/03/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	24.74	---	81.26
	03/25/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---	22.14	---	83.86
	06/23/93	<50	<0.5	<0.5	<0.5	1	---	---	---	23.02	0.00	82.98
	09/21/93	<50	<0.5	<0.5	<0.5	<0.8	---	---	---	23.09	0.00	82.91
	12/02/93	---	---	---	---	---	---	---	---	23.37	0.00	82.63
	03/08/94	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	22.83	0.00	83.17
P-1 86.43	08/13/92	---	---	---	---	---	---	---	---	10.02	---	76.41
	12/03/92	---	---	---	---	---	---	---	---	10.80	---	75.63
	03/25/93	---	---	---	---	---	---	---	---	8.95	---	77.48
	06/23/93	---	---	---	---	---	---	---	---	---	---	---
	09/21/93	---	---	---	---	---	---	---	---	---	---	---
	12/02/93	---	---	---	---	---	---	---	---	---	---	---
	03/08/94	---	---	---	---	---	---	---	---	---	---	---
Rinsate	01/05/89	<1,000	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---
	03/08/94	<50	1	1.4	<0.5	1.5	---	---	---	---	---	---

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	EDC	EDB	VOCs	DTW	SPT	GWE
TBLB	01/05/89	<1,000	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---
	10/03/89	<500	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	01/04/90	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	04/03/90	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	07/03/90	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	11/06/90	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	01/04/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	04/03/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	07/02/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	10/02/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	01/02/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	04/07/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	08/13/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	12/03/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	03/25/93	<50	<0.5	<0.5	<0.5	<1.5	---	---	---	---	---	---
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	09/21/93	<50	<0.5	<0.5	<0.5	<0.8	---	---	---	---	---	---
	12/02/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	03/08/94	<50	0.6	0.8	<0.5	0.6	---	---	---	---	---	---

NOTES TO TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Chevron Service Station No. 9-0260 21995 Foothill Boulevard, Hayward, California

a	=	Samples analyzed by Fuel Fingerprint Analysis. EPA Method 524.2/8240 for total fuel and aromatic volatile hydrocarbons.
b	=	Sample was analyzed a second time after the holding time expired to confirm the high TPH-G concentration reported in the original analysis.
c	=	Estimated thickness
d	=	Not detected at detection limits ranging from 500 ppb to 2,000 ppb
e	=	Not detected at detection limits ranging from 0.5 ppb to 4.0 ppb
f	=	Chloroform detected. Detection limits ranging from 25 ppb to 500 ppb
TPH-G	=	Total petroleum hydrocarbons-as-gasoline
EDB	=	Ethylene dibromide
DTW	=	Depth to water
GWE	=	Groundwater elevation in feet above mean sea level
EDC	=	1,2-Dichloroethane
VOCs	=	Volatile Organic Compounds
SPT	=	Separate-phase hydrocarbon thickness
---	=	Not applicable, not sampled, not measured

Elevations are given as feet above mean sea level.

Concentrations shown in parts per billion.

Data from February 5, 1988, to December 3, 1992, taken from Weiss Associates report dated January 22, 1993.

ATTACHMENT 3

Field Data Shets

Date: 5/8/74

Page 1 of 1

Project Manager: Tim Watchers

DTW Measurements:

Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: 8 gal

Instruments Used

YSI: ☒ _____ Other: _____

Hydac: _____

Omega: _____

Submersible X Other _____ Omega: _____
 Calibrated YS to 10 + 4 BUFFER solution @ 8:30 am on 3/8/94

[illegible]

Project Name: Chevron - Foothill Blvd.

Date: 3/8/94

Site Address: 21995 Foothill Hayward

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Project Number: 020104113.0610

Project Manager: Tim Watchers

Well ID: MW-14

DTW Measurements:

Well Diameter: 2

Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: 10 gal

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

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

Time	Temp <u>X</u> C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
9:10 AM	17.0	1.01	7.05	2		cloudy / no odor
9:11	17.0	1.01	7.05	4		↓
9:12	17.0	1.01	7.05	6		clear / no odor
9:13	17.0	1.01	7.06	8		↓
9:14	17.0	1.02	7.05	10		↓

Project Name: Chevron - Foothill Blvd.Date: 31~~8~~44Site Address: 21995 Foothill HaywardPage 3 of 10Project Number: 020104113.0610Project Manager: Tim WatchersWell ID: NW-10

DTW Measurements:

Well Diameter: 4

Initial: _____ Calc Well Volume: _____ gal

Recharge: _____ Well Volume: 32 gal

Purge Method

Pump Depth _____ ft.

Instruments Used

Peristaltic _____

Hand Bailed _____

YSI: X

Other: _____

Gear Drive _____

Air Lift _____

Hydac: _____

Submersible X

Other _____

Omega: _____

Time	Temp <u>X</u> C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
9:30	16.5	1.07	7.06	5		Clear No Odor ↓
9:32	16.9	1.11	6.99	10		
9:33	17.6	1.14	7.01	20		
9:34	18.0	1.15	7.06	25		
9:36	18.9	1.17	7.13	32		

Date: 3/8/94

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Project Manager: Tim Watchers

DTW Measurements:

Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: 4 gal

Instruments Used

YSI: 10 Other:

Hydac: _____

Omega: _____

[illegible]

Project Name: Chevron - Foothill Blvd.

Date: 3/8/94

Site Address: 21995 Foothill Hayward

Page 5 of 9

Project Number: 020104113.0610

Project Manager: Tim Watchers

Well ID: MW-16

DTW Measurements:

Well Diameter: 2

Initial: _____

Calc Well Volume: _____ gal

Recharge: _____

Well Volume: 10 gal

Purge Method

Pump Depth _____ ft.

Instruments Used

Peristaltic _____

Hand Bailed _____

YSI: X

Other: _____

Gear Drive _____

Air Lift _____

Hydac: _____

Submersible X

Other: _____

Omega: _____

Time	Temp <u>X</u> C E	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:06	18.8	1.19	7.22	2		cloudy, slight odor
10:08	18.9	1.17	7.14	4		
10:10	18.9	1.15	6.99	6		
10:12	19.0	1.12	6.90	8		
10:14	19.1	1.12	6.88	10		

Project Name: Chevron - Foothill Blvd.

Date: 3/8/94

Site Address: 21995 Foothill Hayward

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Project Number: 020104113.0610

Project Manager: Tim Watchers

Well ID: MW-9
Well Diameter: 4

DTW Measurements:
Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: 12 gal

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

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

Time	Temp <u>X</u> C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
11:58	20.3	1.16	6.67	2		Clear ^{odor} thinner
11:59	21.0	1.17	6.68	6		↓
12:00	20.8	1.17	6.68	8		DRY at 8 gal
				10		
				12		

Date: 5/8/99

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Project Manager: Tim Watchers

DTW Measurements:

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

Instruments Used

YSI: _____

Other: _____

Hydac: _____

Omega: _____

[illegible]

Project Name: Chevron - Foothill Blvd.

Date: 3/8/94

Site Address: 21995 Foothill Hayward

Page 8 of 9

Project Number: 020104113.0610

Project Manager: Tim Watchers

Well ID: Mw-13

DTW Measurements:

Well Diameter: 4

Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: 916 gal

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

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

Time	Temp <u>X</u> C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
12:05	21.0	1.16	6.69	2		Clear, odor ↓
12:06	21.6	1.10	6.69	4		
12:08	21.7	1.07	6.69	6		
12:10	21.2	1.01	6.65	8		
12:12	21.2	1.00	6.62	10		
12:14	21.1	0.97	6.57	16		↓

Project Name: Chevron - Foothill Blvd.Date: 3/8/94Site Address: 21995 Foothill HaywardPage 9 of 9Project Number: 020104113.0610Project Manager: Tim WatchersWell ID: MW-186

DTW Measurements:

Well Diameter: 4

Initial: _____

Calc Well Volume: _____ gal

Recharge: _____

Well Volume: 21.9 gal

Purge Method

Pump Depth _____ ft.

Instruments Used

Peristaltic _____

Hand Bailed _____

YSI: X

Other: _____

Gear Drive _____

Air Lift _____

Hydac: _____

Submersible X

Other _____

Omega: _____

Time	Temp <u>X</u> C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
12:16	21.2	0.97	6.65	2		Clear, odor
12:18	21.2	0.98	6.54	4		
12:20	21.2	1.01	6.54	6		DRY at 6 gal
12:22				8		
				10		

ATTACHMENT 4

Laboratory Report



Northwest Region

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

Client Number: 020104113
Consultant Project Number: 020104113.0610
Facility Number: 9-0260
Project ID: 21995 Foothill Hayward
Work Order Number: C4-03-0178

March 16, 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 03/09/94.

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.

A handwritten signature in black ink, appearing to read 'Rashmi Shah', is written over a horizontal line.

Rashmi Shah
Laboratory Director

Client Number: 020104113
 Consultant Project Number: 020104113.0610
 Facility Number: 9-0260
 Project ID: 21995 Foothill Hayward
 Work Order Number: C4-03-0178

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015^a

GTEL Sample Number		01	03	04	05
Client Identification		TB-LB	MW17	RBMW10	MW10
Date Sampled		03/08/94	03/08/94	03/08/94	03/08/94
Date Analyzed		03/15/94	03/15/94	03/15/94	03/15/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	0.6	<0.5	1	<0.5
Toluene	0.5	0.8	<0.5	1.4	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	0.6	<0.5	1.5	<0.5
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		94.2	111	89.6	97.1

- 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: 020104113
 Consultant Project Number: 020104113.0610
 Facility Number: 9-0260
 Project ID: 21995 Foothill Hayward
 Work Order Number: C4-03-0178

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		07	09	11	13
Client Identification		MW14	MW15	MW16	MW9
Date Sampled		03/08/94	03/08/94	03/08/94	03/08/94
Date Analyzed		03/11/94	03/11/94	03/11/94	03/11/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	2.4	44	6500	800
Toluene	0.5	7.7	4.0	760	780
Ethylbenzene	0.5	5.6	28	1000	390
Xylene, total	0.5	14	53	1300	3600
TPH as Gasoline	50	1700	3400	35000	49000
Detection Limit Multiplier		1	1	50	100
BFB surrogate, % recovery		107	92.0	101	83.2

- 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: 020104113
 Consultant Project Number: 020104113.0610
 Facility Number: 9-0260
 Project ID: 21995 Foothill Hayward
 Work Order Number: C4-03-0178

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015^a

GTEL Sample Number		15	17	M031194-1	
Client Identification		MW6	MW13	METHOD BLANK	
Date Sampled		03/08/94	03/08/94	--	
Date Analyzed		03/11/94	03/11/94	03/11/94	
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	7000	5300	<0.5	
Toluene	0.5	1500	7600	<0.5	
Ethylbenzene	0.5	1500	2600	<0.5	
Xylene, total	0.5	7400	10000	<0.5	
TPH as Gasoline	50	61000	78000	<50	
Detection Limit Multiplier		100	100	1	
BFB surrogate, % recovery		105	89.6	81.2	

- 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: 020104113
 Consultant Project Number: 020104113.0610
 Facility Number: 9-0260
 Project ID: 21995 Foothill Hayward
 Work Order Number: C4-03-0178

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	C4030202-03	20.0	ug/L	94.0	88.0	6.6	57.3 - 138
Toluene	C4030202-03	20.0	ug/L	91.0	84.0	8.0	63.0 - 134
Ethylbenzene	C4030202-03	20.0	ug/L	90.5	83.5	2.0	59.3 - 137
Xylene, total	C4030202-03	60.0	ug/L	98.3	90.5	8.3	59.3 - 144

Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

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

Chevron Facility Number 4-0260
Facility Address 21995 Foothill Hayward
Consultant Project Number 028104113 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) J. Zundall
(Phone) 570/842-9581
Laboratory Name GTEL
Laboratory Release Number 822-9260
Samples Collected by (Name) Tim Watchers
Collection Date 3/9/94
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water 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 (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
REM-11		1	W	G		HCL	YES												
14	14	1			10:35			X											
15	15	3			10:35														
16	16	1			12:40														
17	17	3			12:40														

NOTE:
DO NOT BILL
TB-LB SAMPLES

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time <u>3/9/94</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time <u>3-9-94</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days <u>10 Days</u>
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time (300) <u>3-9-94</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time (300) <u>3-9-94</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time (1350) <u>3-9-94</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time <u>3/9/94</u>	

CA030178 2 OF 2

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

Chain-of-Custody-Recd

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

Chevron Facility Number 9-0260
Facility Address 21995 Foothill Hayward
Consultant Project Number 020104113.0610
Consultant Name Environmental Technology, Inc.
Address 4057 E. Chicago Hwy, Concord, CA. 94520
Project Contact (Name) Tim Watchers
(Phone) 510-671-2387 (Fax Number) _____

Chevron Contact (Name) J. Zundall
(Phone) 510/842-9581
Laboratory Name GTEL
Laboratory Release Number 822-9260
Sample Collected by (Name) John Weber
Collection Date 3/9/94
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Diurnal	Time	Sample Preservation	Lead (Yes or No)	Analyses To Be Performed										Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)			
TB-LB	01	2	W	C		H21	10:5	X										
KB MW 17	02	1			10:50			X										
MW 17	03	3			10:50			X										
KB MW 17	04	1			10:40													
MW 17	05	3			10:40			X										
KB MW 17	06	1			10:45													
MW 17	07	3			10:45			X										
KB MW 17	08	1			10:30													
MW 17	09	3			10:30													
KB MW 17	10	1			10:20													
MW 17	11	3			10:20													
KB MW 17	12	1			12:15													
MW 17	13	3			12:15			X										
C9030178 1 OF 2																		

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEL</u>	Date/Time <u>3/9/94</u>	Received By (Signature) <u>John Weber</u>	Organization <u>GTEL</u>	Date/Time <u>3-9-94</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days (As Contracted)
Relinquished By (Signature) <u>John Weber</u>	Organization <u>GTEL</u>	Date/Time <u>3/9/94</u>	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Ronald Zundall</u>	Organization _____	Date/Time <u>3/9/94</u>	