



Chevron

93 OCT -7 AM 8: 28

October 4, 1993

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

Site Assessment & Remediation

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

**Re: Chevron Service Station #9-0504
15900 Hesperian Boulevard, San Lorenzo, CA**


Dear Ms. Shin:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated September 21, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected only in monitor wells C-3, C-7, and C-8 at concentrations of 1.4, 38, and 60 ppb, respectively. Depth to groundwater was measured at approximately 9.3 to 13.9 feet below grade, and the direction of flow is to the south-southwest.

To date, the ground water extraction system has removed approximately 560,000 gallons of hydrocarbon impacted ground water. The pump in well C-1 has gone down and is currently being repaired. Ground water continues to be extracted from well C-2.

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

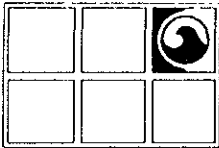

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB - Bay Area
Mr. S.A. Willer
File (9-0504 QM5)

Mr. Bruce E. Prigoff, Esq.
Steefel, Levitt & Weiss
One Embarcadero Center, 29th Floor
San Francisco, CA 94111

SEP 27 '93 PML



GROUNDWATER TECHNOLOGY, INC.

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

FAX: (415) 685-9148

September 21, 1993

Project No. 020204105

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

SUBJECT: Groundwater Monitoring and Sampling Activities
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Lorenzo, California

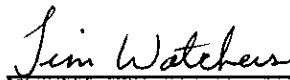
Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on July 28, 1993. Ten of the 11 groundwater monitoring wells at the site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. Monitoring wells C-1 and C-2 were not sampled, because they are currently being for used as groundwater extraction wells. The depth to water in monitoring well C-2 *could not be measured because of blockage created by the extraction equipment.* A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments 1 and 2, respectively. After the DTW was measured, the monitoring wells were purged and sampled, except monitoring wells C-1 and C-2. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) 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 3. 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 call our Concord office at (510) 671-2387.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

Groundwater Technology, Inc.
Reviewed/Approved by



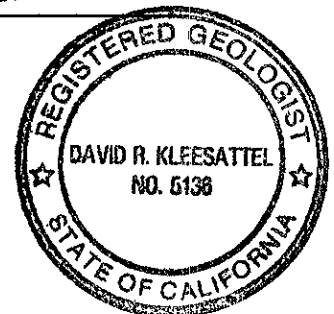
Tim Watchers
Project Geologist



David R. Kleesattel
Registered Geologist
No. 5136

PR 

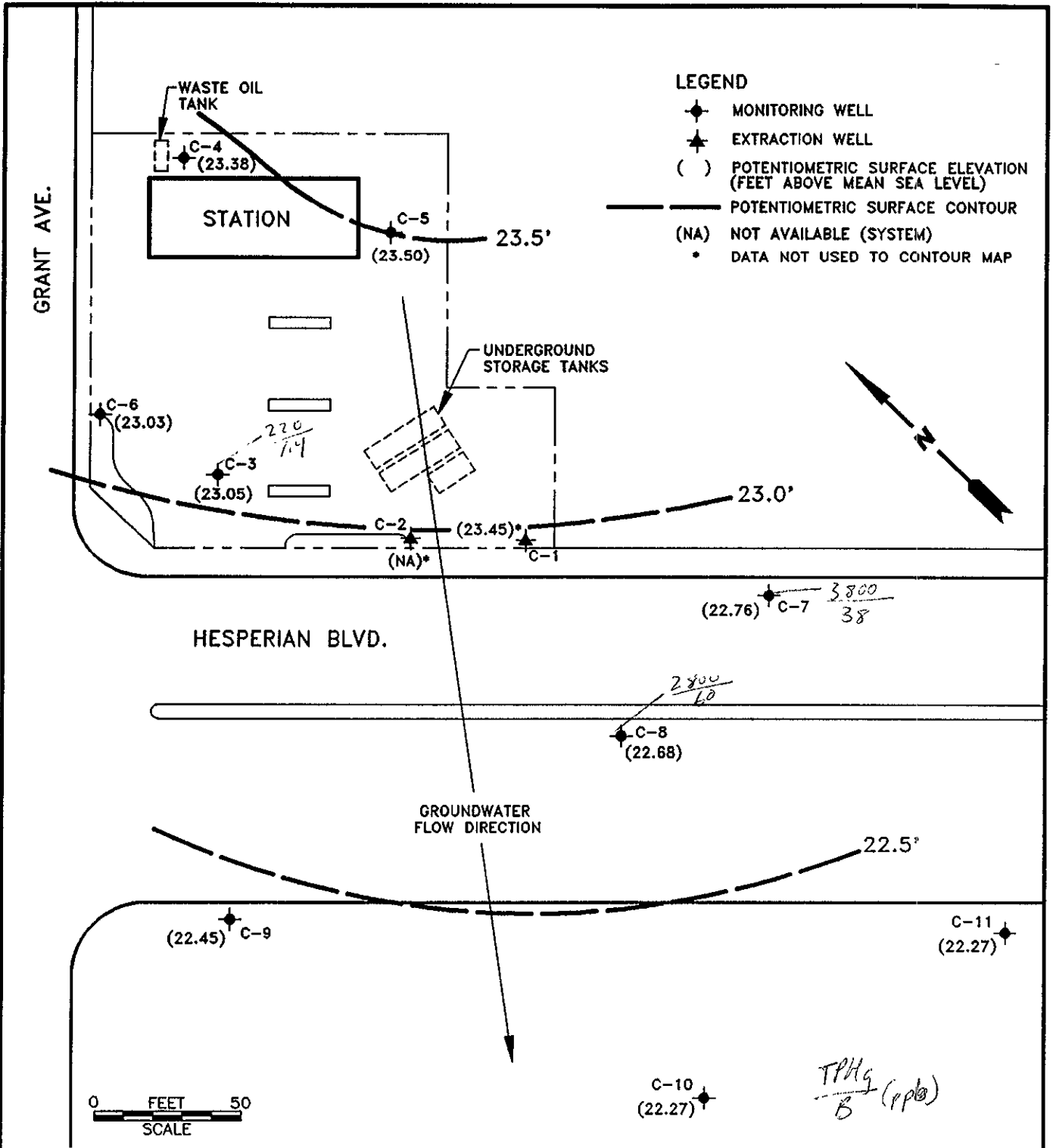
Attachment 1 Figure 1
Attachment 2 Table 1
Attachment 3 Laboratory Report



4106R023.020

ATTACHMENT 1

Figure



| | | | | | | | |
|---|------------|--|--|---|------------------------|--------------|--|
| | | GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY. CONCORD, CA 94520 (510) 671-2387 | | POTENTIOMETRIC SURFACE MAP (7/28/93) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0504 | | | LOCATION: 15900 HESPERIAN BLVD. SAN LORENZO, CALIFORNIA | | REV. NO.: 0 | DATE: 9/8/93 | |
| PM: JAW | PE/RG: DRK | DESIGNED: SCH | DETAILED: ML | ACAD FILE: PSM72893/SP693 | PROJECT NO.: 020204115 | FIGURE: 1 | |

ATTACHMENT 2

Table

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|------------------|--------------|-----------|---------|---------|-------------------|---------|--------|-----|-------|-------------|-------------|-------------|
| C-1 33.93 | 06/06/89 | 5,100 | 250 | 170 | 200 | 990 | — | — | — | — | 0.00 | — |
| | 12/08/89 | — | — | — | — | — | — | — | — | 13.14 | 0.01 | — |
| | 09/07/90 | — | — | — | — | — | — | — | — | 14.04 | 0.03 | 19.91 |
| | 12/20/90 | — | — | — | — | — | — | — | — | 13.87 | 0.01 | 20.07 |
| | 03/15/91 | 37,000 | 220 | 53 | 580 | 1,900 | — | — | — | 11.40 | 0.00 | 22.53 |
| | 06/28/91 | 3,300 | 110 | 6.2 | 100 | 350 | — | — | — | 12.25 | 0.00 | 21.68 |
| | 09/26/91 | 3,200 | 220 | 6.9 | 230 | 710 | — | — | — | 14.02 | 0.00 | 19.91 |
| | 01/27/92 | 330 | 20 | 0.6 | 10 | 48 | — | — | — | 12.63 | 0.00 | 21.30 |
| | 04/20/92 | 2,700 | 130 | 3.4 | 200 | 690 | — | — | — | 10.43 | 0.00 | 23.50 |
| | 07/17/92 | 490 | 17 | <0.5 | 19 | 52 | — | — | — | 12.61 | 0.00 | 21.32 |
| | 10/29/92 | — | — | — | — | — | — | — | — | — | 0.00 | — |
| | 01/20/93 | — | — | — | — | — | — | — | — | 9.42 | 0.00 | 24.51 |
| | 05/03/93 | — | — | — | — | — | — | — | — | — | — | — |
| | 07/28/93 | — | — | — | — | — | — | — | — | 10.48 | 0.00 | 23.45 |
| | C-2 34.21 | 06/06/89 | 130,000 | 14,000 | 28,000 | 3,400 | 24,000 | — | — | — | — | 0.00 |
| 12/08/89 | | — | — | — | — | — | — | — | — | 13.44 | 0.15 | — |
| 09/07/90 | | — | — | — | — | — | — | — | — | 14.28 | 0.10 | 20.01 |
| 12/20/90 | | — | — | — | — | — | — | — | — | 14.06 | 0.01 | 20.16 |
| 03/15/91 | | 1,200,000 | 4,700 | 16,000 | 13,000 | 140,000 | — | — | — | 11.59 | 0.01 | 22.63 |
| 06/28/91 | | 150,000 | 3,500 | 4,200 | 2,100 | 16,000 | — | — | — | 12.55 | Sheen | 21.66 |
| 09/26/91 | | 4,900 | 220 | 290 | 130 | 880 | — | — | — | 14.20 | 0.00 | 20.01 |
| 01/27/92 | | 8,200 | 510 | 590 | 230 | 1,300 | — | — | — | 12.46 | 0.00 | 21.75 |
| 04/20/92 | | 19,000 | 1,700 | 1,700 | 930 | 4,700 | — | — | — | 10.24 | 0.00 | 23.97 |
| 07/17/92 | | 20,000 | 950 | 640 | 1,300 | 4,700 | — | — | — | 12.81 | 0.00 | 21.40 |
| 10/29/92 | | — | — | — | — | — | — | — | — | — | 0.00 | — |
| 01/20/93 | | — | — | — | — | — | — | — | — | 8.79 | 0.00 | 25.42 |
| 05/03/93 | | — | — | — | — | — | — | — | — | — | — | — |
| 07/28/93 | | — | — | — | — | — | — | — | — | — | — | — |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|------------------|----------|-------|---------|---------|-------------------|---------|--------|--------|-------|-------------|-------------|-------------|
| C-3 35.46 | 06/06/89 | 2,600 | 63 | 20 | 390 | 370 | -- | -- | -- | -- | -- | -- |
| | 12/08/89 | 680 | 6 | 1 | 31 | 58 | -- | -- | -- | -- | -- | -- |
| | 09/07/90 | 490 | 6 | <0.5 | 41 | 120 | -- | -- | -- | 15.31 | 0.00 | 20.15 |
| | 09/07/90 | 460 | 6 | <0.5 | 40 | 110 | -- | -- | -- | 15.31 | 0.00 | 20.15 |
| | 12/20/90 | 100 | 5 | <0.5 | 27 | 130 | -- | -- | -- | 15.17 | 0.00 | 20.29 |
| | 03/06/91 | 1,300 | 7 | <0.5 | 75 | 250 | -- | -- | -- | 13.27 | 0.00 | 22.19 |
| | 03/06/91 | 1,400 | 8 | <0.5 | 76 | 250 | -- | -- | -- | 13.27 | 0.00 | 22.19 |
| | 06/28/91 | 770 | 6.0 | <0.5 | 81 | 71 | -- | -- | -- | 13.67 | 0.00 | 21.79 |
| | 06/28/91 | 990 | 5.5 | <0.5 | 86 | 75 | -- | -- | -- | 13.67 | 0.00 | 21.79 |
| | 09/26/91 | 1,400 | 7.9 | <0.5 | 98 | 340 | -- | -- | -- | 15.32 | 0.00 | 20.14 |
| | 01/27/92 | 150 | 0.7 | <0.5 | 12 | 12 | -- | -- | -- | 13.91 | 0.00 | 21.55 |
| | 04/20/92 | 1,600 | 9.3 | 1.0 | 190 | 370 | -- | -- | -- | 11.66 | 0.00 | 23.80 |
| | 07/17/92 | 460 | 18 | <0.5 | 20 | 52 | -- | -- | -- | 13.96 | 0.00 | 21.50 |
| | 10/29/92 | 520 | 2.4 | 1.0 | 30 | 79 | -- | -- | -- | 15.51 | 0.00 | 19.95 |
| | 01/20/93 | 4,200 | 7.4 | <0.5 | 140 | 380 | -- | -- | -- | 10.99 | 0.00 | 24.47 |
| | 05/03/93 | 1,300 | 6.8 | 3.2 | 71 | 170 | -- | -- | -- | 10.97 | 0.00 | 24.49 |
| 07/28/93 | 220 | 1.4 | <0.5 | 17 | 39 | -- | -- | -- | 12.41 | 0.00 | 23.05 | |
| C-4 35.78 | 06/06/89 | <50 | <0.05 | <1 | <1 | <3 | -- | -- | <500 | -- | -- | -- |
| | 12/08/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | <1,000 | <5,000 | -- | -- | -- | -- |
| | 09/07/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <5,000 | -- | 15.58 | 0.00 | 20.20 |
| | 12/20/90 | 170 | 1 | <0.5 | <0.5 | 4 | -- | -- | -- | 15.42 | 0.00 | 20.36 |
| | 03/06/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.54 | 0.00 | 22.24 |
| | 06/28/91 | <50 | <0.5 | <0.5 | <0.5 | <0.8 | -- | -- | -- | 13.93 | 0.00 | 21.85 |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.64 | 0.00 | 20.14 |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.64 | 0.00 | 20.14 |
| | 01/27/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.96 | 0.00 | 21.82 |
| | 04/20/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 11.71 | 0.00 | 24.07 |
| | 07/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 14.19 | 0.00 | 21.59 |
| | 10/29/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.72 | 0.00 | 20.06 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 11.17 | 0.00 | 24.61 |
| | 05/03/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 10.94 | 0.00 | 24.84 |
| 07/28/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 12.40 | 0.00 | 23.38 | |

TABLE 1
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Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|------------------|----------|-------|---------|---------|-------------------|---------|-------|-----|-------|-------------|-------------|-------------|
| C-5 35.31 | 06/06/89 | <50 | <0.05 | <1 | <1 | <3 | -- | -- | -- | -- | -- | -- |
| | 12/08/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| | 09/07/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.10 | 0.00 | 20.21 |
| | 12/20/90 | 80 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 14.94 | 0.00 | 20.37 |
| | 03/06/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.06 | 0.00 | 22.25 |
| | 06/28/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.46 | 0.00 | 21.85 |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.14 | 0.00 | 20.17 |
| | 01/27/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.31 | 0.00 | 22.00 |
| | 04/20/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 11.10 | 0.00 | 24.21 |
| | 07/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.73 | 0.00 | 21.58 |
| | 10/29/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.20 | 0.00 | 20.11 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 10.72 | 0.00 | 24.59 |
| | 05/03/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | 10.43 | 0.00 | 24.88 |
| | 07/28/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | 11.81 | 0.00 | 23.50 |
| C-6 36.89 | 12/08/89 | <500 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| | 09/07/90 | 57 | <0.5 | <0.5 | 0.6 | 4 | -- | -- | -- | 16.83 | 0.00 | 20.06 |
| | 12/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 16.66 | 0.00 | 20.23 |
| | 03/06/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 14.80 | 0.00 | 22.09 |
| | 06/28/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.16 | 0.00 | 21.73 |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 16.82 | 0.00 | 20.07 |
| | 01/27/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.44 | 0.00 | 21.45 |
| | 04/20/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 13.17 | 0.00 | 23.72 |
| | 07/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 15.44 | 0.00 | 21.45 |
| | 10/29/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 16.98 | 0.00 | 19.91 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 12.47 | 0.00 | 24.42 |
| | 05/03/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | 12.47 | 0.00 | 11.95 |
| | 07/28/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | 13.86 | 0.00 | 23.03 |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev. | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|-------------------|----------|--------|---------|---------|-------------------|---------|-------|-----|-------|-------------|-------------|-------------|
| C-7 32.75 | 12/08/89 | 1,700 | 32 | 12 | 17 | 150 | -- | -- | -- | -- | -- | -- |
| | 09/07/90 | 880 | 84 | 23 | 46 | 180 | -- | -- | -- | 13.02 | 0.00 | 19.73 |
| | 12/20/90 | 560 | 24 | 3 | 19 | 21 | -- | -- | -- | 12.28 | 0.00 | 20.47 |
| | 03/06/91 | 240 | 25 | 2 | 4 | 26 | -- | -- | -- | 16.92 | 0.00 | 15.83 |
| | 06/28/91 | 2,600 | 130 | 13 | 82 | 220 | -- | -- | -- | 11.31 | 0.00 | 21.44 |
| | 09/26/91 | 8,100 | 47 | 35 | 350 | 1,200 | -- | -- | -- | 12.28 | 0.00 | 20.47 |
| | 01/27/92 | 12,000 | 170 | 40 | 420 | 830 | -- | -- | -- | 11.43 | 0.00 | 21.32 |
| | 04/20/92 | 1,200 | 80 | 11 | 90 | 110 | -- | -- | -- | 9.28 | 0.00 | 23.47 |
| | 07/17/92 | 2,400 | 20 | 7.4 | 95 | 200 | -- | -- | -- | 11.49 | 0.00 | 21.26 |
| | 10/29/92 | 69 | 1.3 | <0.5 | 3.8 | 7.2 | -- | -- | -- | 13.05 | 0.00 | 19.70 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 8.69 | 0.00 | 24.06 |
| | 05/03/93 | 2,400 | 29 | 8.6 | 140 | 210 | -- | -- | -- | 8.68 | 0.00 | 24.07 |
| | 07/28/93 | 3,800 | 38 | 16 | 290 | 920 | -- | -- | -- | 9.99 | 0.00 | 22.76 |
| C-8 33.82 | 12/08/89 | 4,800 | 62 | 11 | 95 | 180 | -- | -- | -- | -- | -- | -- |
| | 09/07/90 | 3,700 | 170 | 31 | 180 | 270 | -- | -- | -- | 14.32 | 0.00 | 19.50 |
| | 12/20/90 | 3,900 | 120 | 20 | 130 | 180 | -- | -- | -- | 14.21 | 0.00 | 19.61 |
| | 03/06/91 | 1,200 | 45 | 6 | 34 | 57 | -- | -- | -- | 14.80 | 0.00 | 19.02 |
| | 06/28/91 | 6,900 | 180 | 46 | 340 | 640 | -- | -- | -- | 12.65 | 0.00 | 21.17 |
| | 09/26/91 | 1,400 | 66 | 9.8 | 38 | 40 | -- | -- | -- | 14.29 | 0.00 | 19.53 |
| | 01/27/92 | 3,600 | 100 | 26 | 170 | 260 | -- | -- | -- | 12.60 | 0.00 | 21.22 |
| | 04/20/92 | 2,600 | 110 | 32 | 180 | 260 | -- | -- | -- | 10.36 | 0.00 | 23.46 |
| | 07/17/92 | 1,100 | 34 | 5.9 | 35 | 52 | -- | -- | -- | 12.88 | 0.00 | 20.94 |
| | 10/29/92 | 820 | 29 | 4.8 | 23 | 27 | -- | -- | -- | 14.39 | 0.00 | 19.43 |
| | 01/20/93 | 6,000 | 81 | 22 | 200 | 310 | -- | -- | -- | 10.02 | 0.00 | 23.80 |
| | 05/03/93 | 11,000 | 75 | 96 | 880 | 2,600 | -- | -- | -- | 9.75 | 0.00 | 24.07 |
| | 07/28/93 | 2,800 | 60 | 13 | 92 | 150 | -- | -- | -- | 11.14 | 0.00 | 22.68 |

TABLE 1
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Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|------------------|---------------|----------|---------|---------|-------------------|---------|-------|-----|-------|-------------|-------------|-------------|
| C-9 33.43 | 09/07/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 14.06 | 0.00 | 19.37 |
| | 12/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 14.03 | 0.00 | 19.40 |
| | 03/06/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.12 | 0.00 | 21.31 |
| | 06/28/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.41 | 0.00 | 21.02 |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 14.02 | 0.00 | 19.41 |
| | 01/27/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.53 | 0.00 | 20.90 |
| | 04/20/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 10.22 | 0.00 | 23.21 |
| | 07/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.64 | 0.00 | 20.79 |
| | 10/29/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 14.20 | 0.00 | 19.23 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 9.72 | 0.00 | 23.71 |
| | 05/03/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | 9.55 | 0.00 | 23.88 |
| | 07/28/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | 10.98 | 0.00 | 22.45 |
| | C-10 31.63 | 09/07/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.49 | 0.00 |
| 12/20/90 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.36 | 0.00 | 19.27 |
| 03/06/91 | | <50 | <0.5 | 0.8 | <0.5 | 0.8 | --- | --- | --- | 10.45 | 0.00 | 21.18 |
| 06/28/91 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 10.74 | 0.00 | 20.89 |
| 09/26/91 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.42 | 0.00 | 19.21 |
| 01/27/92 | | <50 | <0.5 | 1.3 | <0.5 | <0.5 | --- | --- | --- | 10.84 | 0.00 | 20.79 |
| 01/27/92 | | <50 | <0.5 | 1.3 | <0.5 | <0.5 | --- | --- | --- | 10.84 | 0.00 | 20.79 |
| 04/20/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 8.55 | 0.00 | 23.08 |
| 07/17/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 11.02 | 0.00 | 20.61 |
| 10/29/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 12.40 | 0.00 | 19.23 |
| 01/20/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | 8.14 | 0.00 | 23.49 |
| 05/03/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | 7.92 | 0.00 | 23.71 |
| 07/28/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | 9.36 | 0.00 | 22.27 |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|-------------------|---------------|----------|---------|---------|-------------------|---------|-------|-----|-------|-------------|-------------|-------------|
| C-11 31.58 | 09/07/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 12.22 | 0.00 | 19.36 |
| | 12/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 12.08 | 0.00 | 19.50 |
| | 03/06/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 16.15 | 0.00 | 15.43 |
| | 06/28/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 10.52 | 0.00 | 21.06 |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 12.20 | 0.00 | 19.38 |
| | 01/27/92 | <50 | <0.5 | 0.8 | <0.5 | <0.5 | -- | -- | -- | 10.73 | 0.00 | 20.85 |
| | 04/20/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 8.56 | 0.00 | 23.02 |
| | 07/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 10.78 | 0.00 | 20.80 |
| | 10/29/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 12.07 | 0.00 | 19.51 |
| | 01/20/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | 7.97 | 0.00 | 23.61 |
| | 05/03/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | 7.95 | 0.00 | 23.63 |
| | 07/28/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | 9.31 | 0.00 | 22.27 |
| | TRIP BLANK | 09/07/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- |
| 03/06/91 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 06/28/91 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 09/26/91 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 01/27/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 04/20/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 07/17/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 10/29/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 01/20/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 05/03/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- |
| 07/28/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- | -- | -- | -- | |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

| Well ID/ Elev | Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | TPH-D | TOG | TPH-O | DTW (ft) | SPT (ft) | WTE (ft) |
|------------------|----------|-------|---------|---------|-------------------|---------|-------|-----|-------|-------------|-------------|-------------|
| RINSATE | 03/06/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | — | — | — | — |
| | 09/26/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | — | — | — | — |
| | 01/27/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | — | — | — | — |
| | 04/20/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | — | — | — | — |
| | 07/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | — | — | — | — |
| | 10/29/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | — | — | — | — | — | — |

Concentrations in parts per billion.

— = Not measured, not sampled, not analyzed

DTW = Depth to water

WTE = Water-table elevation

SPT = Separate-phase thickness

TPH-G = Total petroleum hydrocarbons-as-gasoline

TPH-D = Total petroleum hydrocarbons-as-diesel fuel

TOG = Total oil and grease

TPH-O = Total petroleum hydrocarbons-as-oil

Data from June 6, 1989, to January 20, 1993, from Alton Geosciences report dated March 10, 1993



ATTACHMENT 3

Laboratory Report



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGY, INC.
Attn: Nicole Merchant

Project 020204105
Reported 08/04/93

TOTAL PETROLEUM HYDROCARBONS

| Lab # | Sample Identification | Sampled | Analyzed Matrix |
|----------|-----------------------|----------|-----------------|
| 89403- 1 | TB-LB | 07/28/93 | 08/03/93 Water |
| 89403- 3 | C4 | 07/28/93 | 07/31/93 Water |
| 89403- 5 | C5 | 07/28/93 | 07/31/93 Water |
| 89403- 7 | C6 | 07/28/93 | 08/04/93 Water |
| 89403- 9 | C9 | 07/28/93 | 07/31/93 Water |
| 89403-11 | C10 | 07/28/93 | 07/31/93 Water |
| 89403-13 | C11 | 07/28/93 | 07/31/93 Water |
| 89403-15 | C3 | 07/28/93 | 07/31/93 Water |
| 89403-17 | C7 | 07/28/93 | 08/03/93 Water |
| 89403-19 | C8 | 07/28/93 | 07/31/93 Water |

RESULTS OF ANALYSIS

Laboratory Number: 89403- 1 89403- 3 89403- 5 89403- 7 89403- 9

| | | | | | |
|----------------|--------|--------|--------|--------|--------|
| Gasoline: | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 |
| Benzene: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Toluene: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Ethyl Benzene: | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Xylenes: | ND<1.5 | ND<1.5 | ND<1.5 | ND<1.5 | ND<1.5 |
| Concentration: | ug/L | ug/L | ug/L | ug/L | ug/L |

Laboratory Number: 89403-11 89403-13 89403-15 89403-17 89403-19

| | | | | | |
|----------------|--------|--------|--------|------|------|
| Gasoline: | ND<50 | ND<50 | 220 | 3800 | 2800 |
| Benzene: | ND<0.5 | ND<0.5 | 1.4 | 38 | 60 |
| Toluene: | ND<0.5 | ND<0.5 | ND<0.5 | 16 | 13 |
| Ethyl Benzene: | ND<0.5 | ND<0.5 | 17 | 290 | 92 |
| Xylenes: | ND<1.5 | ND<1.5 | 39 | 920 | 150 |
| Concentration: | ug/L | ug/L | ug/L | ug/L | ug/L |



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

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: 89403

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: | 74/82 | 10% | 70-130 |
| Benzene: | 126/112 | 12% | 70-130 |
| Toluene: | 113/101 | 11% | 70-130 |
| Ethyl Benzene: | 113/102 | 10% | 70-130 |
| Xylenes: | 115/105 | 9% | 70-130 |

Afsaneh Salamy
Senior Chemist

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

89403

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>9-0504</u> | Chevron Contact (Name) <u>Mark Miller</u> |
| | Facility Address <u>15900 Hesperian Blvd, San L</u> | (Phone) <u>842-8134</u> |
| | Consultant Project Number <u>020204105</u> | Laboratory Name <u>Superior</u> |
| | Consultant Name <u>Groundwater Technology, Inc.</u> | Laboratory Release Number <u>758-3810</u> |
| | Address <u>4057 Port Chicago Hwy, Concord, CA 94520</u> | Samples Collected by (Name) <u>Greg Mason</u> |
| Project Contact (Name) <u>Nicole Merchant</u> | Collection Date <u>7/29-93</u> | Signature <u>[Signature]</u> |
| (Phone) <u>671-2387</u> | (Fax Number) <u>685-9148</u> | |

| 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) | 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) | 1-bld | | | | | | | | | | | | | |
| TB-LB | 1 | 2 | W | D | | HCl | Y | X | | | | | | | | | | | | | | | | | | | | Do not Bill TB-LB | |
| RBC4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | 3 | 3 | | | 3:10 | | | X | | | | | | | | | | | | | | | | | | | | | |
| RBC5 | 4 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C5 | 5 | 3 | | | 3:20 | | | X | | | | | | | | | | | | | | | | | | | | | |
| RBC6 | 6 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C6 | 7 | 3 | | | 3:30 | | | X | | | | | | | | | | | | | | | | | | | | | |
| RBC9 | 8 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C9 | 9 | 3 | | | 3:40 | | | X | | | | | | | | | | | | | | | | | | | | | |
| RBC10 | 10 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C10 | 11 | 3 | | | 3:50 | | | X | | | | | | | | | | | | | | | | | | | | | |
| RBC11 | 12 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C11 | 13 | 3 | W | N | 4:00 | | Y | X | | | | | | | | | | | | | | | | | | | | | |

Please Initial: AS

Samples Stored in ice. AS 40

Appropriate containers X

Samples preserved X

NO swillout headspace X

| | | | | | | |
|--|-------------------------|-----------------------|---|-------------------------------|-----------|--|
| Relinquished By (Signature) <u>[Signature]</u> | Organization <u>GTE</u> | Date/Time <u>7/29</u> | Received By (Signature) | Organization | Date/Time | Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u> |
| Relinquished By (Signature) | Organization | Date/Time | Received By (Signature) | Organization | Date/Time | |
| Relinquished By (Signature) | Organization | Date/Time | Received For Laboratory By (Signature) <u>[Signature]</u> | Date/Time <u>7/29/93 9:20</u> | | |

COC-3.0MCS/US/RI/PLH

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 9-0504
Facility Address 15900 Hesperian Blvd, San
Consultant Project Number 020204105
Consultant Name Groundwater Technology, Inc.
Address 4057 Port Chicago Hwy, Concord, CA 94520
Project Contact (Name) Nicole Merchant
(Phone) 671-2387 (Fax Number) 685-9148

Chevron Contact (Name) Mark Miller
(Phone) 842-8134
Laboratory Name Superior
Laboratory Release Number 758-3810
Samples Collected by (Name) Greg Maswal
Collection Date 7/28-93
Signature [Signature]

| 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) | Analyses To Be Performed | | | | | | | | | | | Remarks |
|---------------|-------------------|----------------------|--|---|------|---------------------|------------------|------------------------------|-------------------|-----------------------|------------------------------|----------------------------|---------------------------|-----------------------------|--|------|---|--|---------|
| | | | | | | | | BTEX + TPH GAS (8020 + 8015) | TPH Diesel (8015) | Oil and Grease (8320) | Purgeable Halocarbons (8010) | Purgeable Aromatics (8020) | Purgeable Organics (8240) | Extractable Organics (8270) | Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA) | Hold | | | |
| RBC3 | 14 | 1 | W | D | | HCl | X | | | | | | | | | | X | | |
| C3 | 15 | 3 | | | 4:10 | | | X | | | | | | | | | | | |
| RBC7 | 16 | 1 | | | | | | | | | | | | | | | X | | |
| C7 | 17 | 3 | | | 4:20 | | | X | | | | | | | | | | | |
| RBC8 | 18 | 1 | | | | | | | | | | | | | | | X | | |
| C8 | 19 | 3 | ↓ | ↓ | 4:30 | ↓ | ↓ | X | | | | | | | | | | | |

| | | | | | | |
|---|----------------------------|--------------------------|--|--------------|----------------------------------|---|
| Relinquished By (Signature) <u>[Signature]</u> | Organization <u>GTE</u> | Date/Time <u>7/29</u> | Received By (Signature) | Organization | Date/Time | Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u> |
| Relinquished By (Signature) | Organization | Date/Time | Received By (Signature) | Organization | Date/Time | |
| Relinquished By (Signature) | Organization | Date/Time | Received For Laboratory By (Signature) <u>Arsenek Salun</u> | | Date/Time <u>7/29/93 9:20</u> | |

COC-3.DWG/03 91/mch