

Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

April 19, 1993

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\$3.000 A 300

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

Re: Chevron Service Station #9-0338

5500 Telegraph Avenue, Oakland, CA

Dear Ms. Hugo:

Enclosed is the Annual Ground Water Monitoring Report dated March 31, 1993, prepared by our consultant Alton Geoscience for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Laboratory analyses reported these constituents below the method detection limits for all monitor wells. Depth to ground water was measured at approximately 7.1 feet to 8.3 feet below grade and the direction of flow is to the southwest.

Levels of dissolved hydrocarbons observed in the ground water have decreased over the last two years. Concentrations observed in all wells for the past two annual sampling events have been below method detection limits. Chevron will instruct its consultant to increase the sampling frequency to quarterly to obtain two more sampling rounds of non-detectable concentrations and then evaluate the site for possible case closure.

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

Very truly yours,

CHEVRON U.S.A. PRODUCTS COMPANY

Mark A Miller

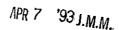
Site Assessment and Remediation Engineer

Enclosure

cc:

Mr. Eddy So, RWQCB - Bay Area

Mr. M.R. Purcell File (9-0338 QM1)





March 31, 1993

Ms. Nancy Vukelich Chevron U.S.A. Products Company Post Office Box 5004 San Ramon, California 94583-0804

31-0261

Subject: Annual Ground Water Monitoring Report

Chevron Service Station No. 9-0338

5500 Telegraph Avenue Oakland, California

Dear Mr. Miller:

In accordance with our agreement, Alton Geoscience transmits this Annual Ground Water Monitoring and Sampling Report for Chevron Service Station No. 9-0338, 5500 Telegraph Avenue, Oakland, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on February 4, 1993, in accordance with the requirements and procedures of the California Regional Water Quality Control Board (RWQCB) and local regulatory agencies.

FIELD PROCEDURES

Prior to purging and sampling the wells, each well was checked for liquid-phase hydrocarbons or sheen. The depth to ground water and, if present, free product was measured in each well from the top of casing using an electronic interface probe with 0.01 foot tolerance. Ground water samples were collected after more than 3 casing volumes of ground water was purged from each well. Each sample was collected using a clean bailer. Ground water samples were then decanted into the appropriate clean sample containers for delivery to a California-certified laboratory following proper preservation and chain of custody procedures. Purged ground water was transferred to a 600-gallon, trailer-mounted, steel tank (California Department of Health Services-registered), and delivered as non-hazardous waste to Chevron Richmond Terminal for treatment.

Ms. Vukelich March 31, 1993 Page 2

SAMPLING AND ANALYTICAL RESULTS

The results of the monitoring and laboratory analyses of ground water samples for this quarter, as well as the results of previous monitoring and sampling events, are summarized in Table 1 and Table 2. Based on the previous wellhead elevation survey data and depth to water measurements collected during this monitoring event, ground water elevations and the general ground water gradient direction at this site are presented in Figure 2.

No liquid-phase hydrocarbons or sheen were observed in any of the ground water samples. The official laboratory reports and chain of custody records are included in Appendix A.

Please call Todd B. Pearson at (510) 734-8134 if you have any questions regarding this report.

Sincerely,

ALTON GEOSCIENCE,

Todd B. Pearson Staff Scientist

Peter C. Lange

Registered Geologist, No. 5089

wp90261ds

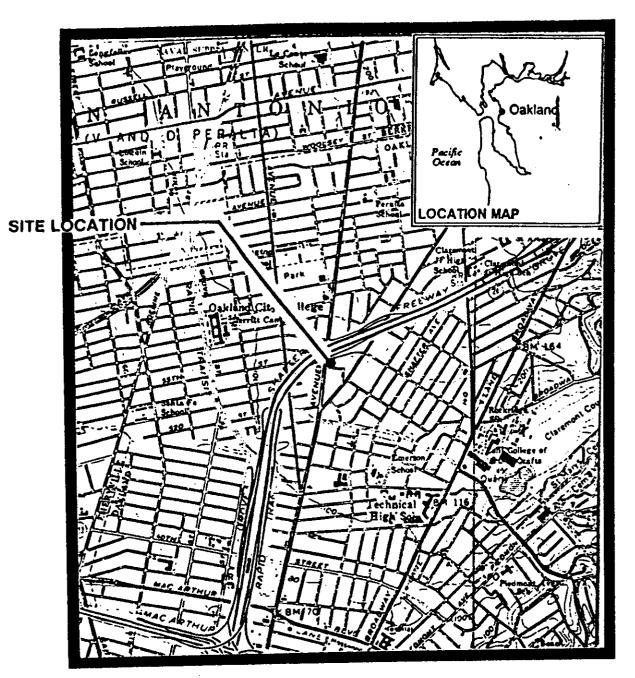


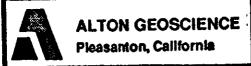
FIGURE 1. SITE VICINITY MAP

CHEVRON U.S.A.
CHEVRON SERVICE STATION NO. 9-0338
5500 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 31-0261

SOURCE: GEOSTRATEGIES INC.





LEGEND

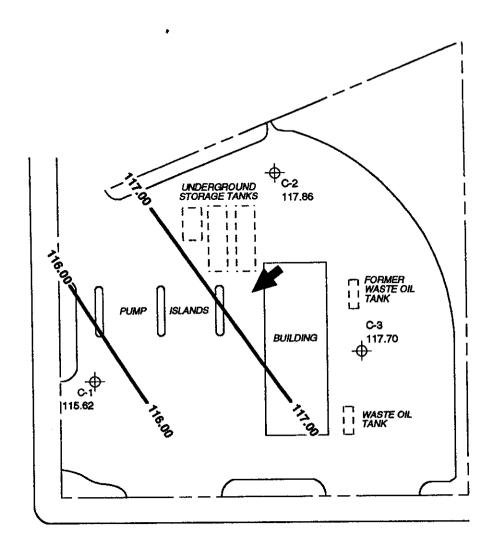
- C-3 Ground water monitoring well

Ground water elevation, in feet below mean sea level [NGVD-1929]

Ground water elevation contour

K

General direction of ground water gradient



NOTES:

Contour lines are interpretive based on fluid levels collected February 4, 1993. Contour interval - 1.0 foot.



SCALE (feet) 0 20 40 GROUND WATER ELEVATION CONTOUR MAP February 4, 1993

Chevron Station No. 9-0338 5500 Telegraph Avenue Oakland, California

FIGURE 2

Source: Geostrategies, Inc.

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station # 9-0338
5500 Telegraph Avenue, Oakland, California

Concentrations in parts per billion (ppb)

| LL | DATE OF SAMPLING/ MONITORING | CASING ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | TPH-G | TPH-D | TOG | В | T | E | X | TTL | LAB |
|------------------|------------------------------------|---------------------|----------------------|------------------------------|----------|----------|----------|--------|---------|--------|--------|--------|------|
| | ========== | | ====== | | :======= | | ======== | | ======= | | | ====== | ==== |
| ·1 | 11/21/89 | 123.88 | 10.75 | 113.13 | ND<500 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| · i | 03/20/90 | 123.88 | 9.93 | 113.95 | ND<50 | * | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| ·i | 06/27/90 | 123.88 | 9.64 | 114.24 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | SAL |
| - 1D | 06/27/90 | 123.88 | 9.64 | 114.24 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | SAL |
| . 1* | 10/12/90 | 123.88 | 10.91 | 112.97 | | | | | | | | | SAL |
| - 1 0 | 10/12/90 | 123.88 | 10.91 | 112.97 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| · 1 | 12/20/90 | 123.88 | 9.76 | 114.12 | 75 | | | ND<0.5 | 0.9 | 0.8 | 3 | | SAL |
| - 1D | 12/20/90 | 123.88 | 9.76 | 114.12 | 73 | | | ND<0.5 | 0.6 | 0.7 | 2 | | SAL |
| · 1 | 04/10/91 | 123.88 | 8.76 | 115.12 | ND<50 | | | 0.7 | 1.2 | ND<0.5 | 1.0 | | SAL |
| - 1D | 04/10/91 | 123.88 | 8.76 | 115.12 | ND<50 | | | 0.9 | 1.5 | ND<0.5 | 1.5 | | SAL |
| -1 ** | | 123.88 | 8.08 | 115.8 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| ·i | 02/04/93 | 123.88 | 8.26 | 115.62 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -2 | 11/21/89 | 124.92 | 10.75 | 114.17 | ND<500 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| -2 | 03/20/90 | 124.92 | 9.44 | 115.48 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| ·2 | 06/27/90 | 124.92 | 9.55 | 115.37 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | SAL |
| -2 | 10/12/90 | 124.92 | 10.89 | 114.03 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -2 | 12/20/90 | 124.92 | 9.65 | 115.27 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -2 | 04/10/91 | 124.92 | 8.04 | 116.88 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -2 ** | 02/26/92 | 124.92 | 7.03 | 117.89 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -2 | 02/04/93 | 124.92 | 7.06 | 117.86 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -3 | 11/21/89 | 125.64 | 11.28 | 114.36 | ND<500 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| -3 | 01/12/90 | 125.64 | | | | ND<1000 | ND<5000 | | | | | | NA |
| -3 | 03/20/90 | 125.64 | 10.39 | 115.25 | ND<50 | ND<50 | ND<5000 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| -3 | 06/27/90 | 125.64 | 10.32 | 115.32 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | SAL |
| -3 | 10/12/90 | 125.64 | 11.28 | 114.36 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -3 | 12/20/90 | 125.64 | 10.25 | 115.39 | 54 | | | ND<0.5 | ND<0.5 | ND<0.5 | 0.7 | | SAL |
| -3 | 04/10/91 | 125.64 | 8.79 | 116.85 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -3 ** | 02/26/92 | 125.64 | 7.83 | 117.81 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| -3 | 02/04/93 | 125.64 | 7.94 | 117.7 | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station # 9-0338
5500 Telegraph Avenue, Oakland, California

Concentrations in parts per billion (ppb)

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | TPH-G | TPH-0 | TOG | B | T | E | X | TTL | LAB |
|------------|---|---------------------|----------------------|------------------------------|--------|---|--------------------------------|---------------|--------|-----------|--------|-------------|-----|
| | | | | | | | | | | | | | |
| TB | 03/20/90 | NA | NA | NA | ND<50 | ND<50 | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | NA |
| TB | 06/27/90 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| T8* | 10/12/90 | NA | NA | NA | | | | | | | | | SAL |
| T8 | 12/20/90 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| TB | 04/10/91 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| TB | 02/26/92 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| RINSATE | 06/27/90 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| RINSATE* | | NA | NA | NA | | | | | | | | | SAL |
| RINSATE | 12/20/90 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | | SAL |
| RINSATE | 04/10/91 | NA | NA | NA | ND<50 | | | ND<0.5 | 0.6 | ND<0.5 | ND<0.5 | | SAL |
| RINSATE | 02/26/92 | NA | NA | NA | ND<50 | | | ND<0.5 | ND<0.5 | ND<0.5 | 3.3 | | SAL |
| EXPLANAT | ION OF ABBRE | VIATIONS: | | | | | | | | | | • • • • • • | |
| TPH-G | :Total Petroleum Hydrocarbons as Gasoline (EPA method 8015 modified) | | | | NA | | Not Analyzed/ Not Applicabl | | | | | | |
| В | :Benzene (E | PA method | 8020 or | 8240) | | ND | : | Not Detected | | | | | |
| T | :Toluene (EPA method 8020 or 8240) | | | TB | : | :Trip Blank | | | | | | | |
| Ε | :Ethylbenze | ene (EPA me | thod 802 | 0 or 8240) | | D · | : | :Duplicate | | | | | |
| X | :Xylenes (EPA method 8020 or 8240) | | | SAL * | | Superior Anal Samples broke Unable to | n by lab. | | | | | | |
| | | | | | | ** | | Listed on COC | | renort sc | MLf | | |

Note: Top of casing and Ground Water Elevations are expressed as feet above mean sea level (NGVD-1929).

APPENDIX A

OFFICIAL LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS



825 Amort Drive, Suite 114 • Martinez, California 94553 • (513) 229 10177 (970) 1227 1526

Alton Geoscience Attn: DALE SWAIN

Project 31-0261 Reported 02/18/93

TOTAL PETROLEUM HYDROCARBONS

| Lab # | Sample Identification | Sampled | Analyzed Matrix |
|----------|-----------------------|----------|-----------------|
| 87785- 1 | TB-LB | 02/04/93 | 02/16/93 Water |
| 87785- 2 | C-3 | 02/04/93 | 02/16/93 Water |
| 87785- 3 | C-1 | 02/04/93 | 02/16/93 Water |
| 87785- 4 | C-2 | 02/04/93 | 02/16/93 Water |

RESULTS OF ANALYSIS

| Laboratory Number: | 87785- 1 | 87785- 2 | 87785- 3 | 87785- 4 |
|---------------------|----------|----------|----------|----------|
| Laboral ory Number: | 0//02- 1 | 0,,00 | 0,,00 | 0,,00 |

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



+25 Arnold Drive: Suite 114 • Martinez, California 94553 • (510) 229 1512 / fax (510) 229 1526

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 87785

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: Benzene: Toluene: Ethyl Benzene: Xylenes: | 88/89 | 1% | 70-130 |
| | 99/96 | 3% | 70-130 |
| | 102/103 | 1% | 70-130 |
| | 110/111 | 1% | 70-130 |
| | 105/106 | 1% | 70-130 |

Richard Srna, Ph.D.

Selemin a Volumenting (for Laboratory Director)

8-11" Chain-of-Custody-Record Fax copy of Lab Report and COC to Chevron Contact: No Nancy Vukelich 9-0338 Chevron Contact (Name) ____ Chevron Facility Number.... Foolity Address 5500 Telegraph Ave, OAKLUNG
ant Project Number 31-0261 516-842-9500 (Phone) SAL Chevron U.S.A. Inc. Laboratory Name_ Consultant Project Number_ 2646690 P.O. BOX 5004 ALTON Geoscience Consultant Name _ Laboratory Release Number ... Address 5870 STONEFILGE Dr., SR. 6 PLOASANION Andrew Block San Ramon, CA 94583 Samples Collected by (Name)... FAX (415)842-9591 DAGE SWAIN Project Contact (Name)_____ Collection Date (Phone) 510-734-8134 (Fax Number) 734-8420 Signature Analyses To Be Performed FEB 2 2 1993 Atr Charcoal Purgeable Aromatics (8020) Grab Composite Discrete Extractoble Organics (8270) Aurgeable Halocarbons (8010) Purgeable Organics (8240) BTEX + TPH GAS (8020 + 8015) 1 I Oil and Graces (5520) . . . TPH Diesel (8015) ဖပ္မ Remarks HC1 Yes G 1420 3 TB-LB X HCL 1424 X 1440 HCL X 1454 HCL Cos sidied in ice: Hease initial Date/Time / OO Turn Around Time (Circle Choice) 2/8/93 Received/By (Signature) Organization Organization Relinaviehed By (Signature) Express It 2-8-93 ALTON 24 Hrs. 48 Hrs. Received By (Signature) Organization Date/Time Relinquished By (Signature) Organization 5 Days (10 Days Recleved RBn Laboratory By (Signature) Organization Date/Time As Contracted Relinquiched By (Signature)