



PACIFIC
ENVIRONMENTAL
GROUP, INC.

920101 112 59

October 20, 1992
Project 305-94.01

Mr. Paul Hayes
Shell Oil Company
P.O. Box 5278
Concord, California 94520

Re: Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California
WIC No 204-1381-0407

Dear Mr. Hayes:

This letter presents the results of the third quarter 1992 monitoring program for Shell Oil Company (Shell) prepared by Pacific Environmental Group, Inc. (PACIFIC) for the above referenced site (Figures 1 and 2).

FINDINGS

Groundwater monitoring wells were gauged and sampled by Emcon Associates (Emcon) at the direction of PACIFIC on August 26, 1992. Groundwater elevation contours for the sampling date are shown on Figure 2. Table 1 presents groundwater elevation data.

Groundwater analytical data are presented in Tables 2 and 3. Total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, and total petroleum hydrocarbons calculated as diesel (TPH-d) concentrations for the August 1992 sampling event are shown on Figure 3. Emcon's groundwater sampling report is presented in Attachment A.

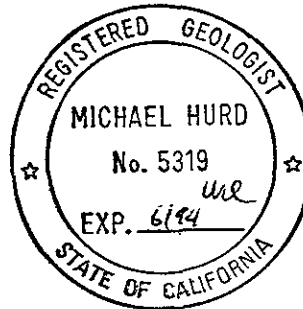
If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Michael Hurd
Project Geologist
RG 5319



- Attachments:
- Table 1 - Groundwater Elevation Data
 - Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH-g and BTEX Compounds)
 - Table 3 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH-d and Oil and Grease)
 - Figure 1- Site Location Map
 - Figure 2- Groundwater Elevation Contour Map
 - Figure 3- TPH-g/Benzene/TPH-d Concentration Map
 - Attachment A - Groundwater Sampling Report

- cc:
- Mr. Lawrence Seto, Alameda County Department of Environmental Health
 - Dr. Mohsen Mehran, Owner Consultant
 - Mr. Michael K. Johnson, Larson, Burnham and Turner
 - Mr. Matthew Righetti, Righetti Law Firm
 - Mr. Richard A. Schoenberger, Esq., Walkup, Shelby, Bastian, Melodia, Kelly, Echeverria and Link
 - Mr. David Swope, Shell Oil Company

Table 1
Groundwater Elevation Data

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

| Well Number | Gauging Date | Well Elevation (feet, MSL) | Depth to Water (TOB) | Groundwater Elevation (feet, MSL) |
|-------------|--------------|----------------------------|----------------------|-----------------------------------|
| MW-1 | 02/08/90 | 99.78 | 8.39 | 91.39 |
| | 04/20/90 | | 9.21 | 90.57 |
| | 07/30/90 | | 9.21 | 90.57 |
| | 10/25/90 | | 9.44 | 90.34 |
| | 01/15/91 | | 9.11 | 90.67 |
| | 04/19/91 | | 5.58 | 94.20 |
| | 07/16/91 | | 7.58 | 92.20 |
| | 10/08/91 | | 8.25 | 91.53 |
| | 02/04/92 | | 8.52 | 91.26 |
| | 04/06/92 | | 6.75 | 93.03 |
| | 08/26/92 | | 9.89 | 89.89 |
| MW-2 | 02/08/90 | 100.83 | 7.33 | 93.50 |
| | 04/20/90 | | 8.63 | 92.20 |
| | 07/30/90 | | 8.78 | 92.05 |
| | 10/25/90 | | 9.50 | 91.33 |
| | 01/15/91 | | 8.52 | 92.31 |
| | 04/19/91 | | 6.90 | 93.93 |
| | 07/16/91 | | 9.01 | 91.82 |
| | 10/08/91 | | 8.82 | 92.01 |
| | 02/04/92 | | 7.46 | 93.37 |
| | 04/06/92 | | 6.91 | 93.92 |
| | 08/26/92 | | 9.28 | 91.55 |
| MW-3 | 02/08/90 | 101.48 | 8.91 | 92.57 |
| | 04/20/90 | | 10.20 | 91.28 |
| | 07/30/90 | | 10.61 | 90.87 |
| | 10/25/90 | | 10.00 | 91.48 |
| | 01/15/91 | | 9.74 | 91.74 |
| | 04/19/91 | | 7.92 | 93.56 |
| | 07/16/91 | | 9.40 | 92.08 |
| | 10/08/91 | | 9.62 | 91.86 |
| | 02/04/92 | | 8.74 | 92.74 |
| | 04/06/92 | | 7.12 | 94.36 |
| | 08/26/92 | | 9.58 | 91.90 |
| MW-5 | 02/08/90 | 99.90 | 8.80 | 91.10 |
| | 04/20/90 | | 9.35 | 90.55 |
| | 07/30/90 | | 9.49 | 90.41 |
| | 10/25/90 | | 10.12 | 89.78 |
| | 01/15/91 | | 9.26 | 90.64 |
| | 04/19/91 | | 6.52 | 93.38 |
| | 07/16/91 | | 9.12 | 90.78 |
| | 10/08/91 | | 9.22 | 90.68 |
| | 02/04/92 | | 8.13 | 91.77 |
| | 04/06/92 | | 5.53 | 94.37 |
| | 08/26/92 | | 9.25 | 90.65 |

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

| Well Number | Gauging Date | Well Elevation (feet, MSL) | Depth to Water (TOB) | Groundwater Elevation (feet, MSL) |
|--|--------------|----------------------------|----------------------|-----------------------------------|
| OMW-6 | 07/16/91 | 101.48 | 8.60 | 92.88 |
| | 10/08/91 | | 8.82 | 92.66 |
| | 02/04/92 | | 7.47 | 94.01 |
| | 04/06/92 | | 5.80 | 95.68 |
| | 08/26/92 | | 9.18 | 92.30 |
| MW-7 | 07/16/91 | 99.54 | 8.70 | 90.84 |
| | 10/08/91 | | 8.74 | 90.80 |
| | 02/04/92 | | 7.78 | 91.76 |
| | 04/06/92 | | 5.87 | 93.67 |
| | 08/26/92 | | 8.93 | 90.61 |
| OMW-8 | 07/16/91 | 100.18 | 8.40 | 91.78 |
| | 10/08/91 | | 8.74 | 91.44 |
| | 02/04/92 | | 8.22 | 91.96 |
| | 04/06/92 | | 6.82 | 93.36 |
| | 08/26/92 | | 9.15 | 91.03 |
| MSL = Mean sea level TOB = Top of vault box All elevations are tied into a temporary benchmark elevation of 100.00 feet. | | | | |

Table 2
Summary of Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH-g and BTEX Compounds)

Former Shell Service Station
 2724 Castro Valley Boulevard at Lake Chabot Road
 Castro Valley, California

| Well Number | Date Sampled | TPH-g (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|-------------|--------------|-------------|---------------|---------------|--------------------|---------------|
| MW-1 | 02/09/90 | <1,000 | 0.58 | 0.63 | <0.5 | <0.5 |
| | 04/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/31/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/25/90 | 100 | <0.5 | <0.5 | <0.5 | <0.6 |
| | 01/15/91 | 60 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 01/15/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/19/91 | <50 | 7.7 | <0.5 | <0.5 | <0.5 |
| | 04/19/91 | <50 | 7.4 | <0.5 | <0.5 | <0.5 |
| | 07/16/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/08/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/06/92 | 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | MW-2 | 02/09/90 | 8,600 | 360 | 410 | 6.5 |
| 04/20/90 | | 9,100 | 500 | 330 | 110 | 900 |
| 07/31/90 | | 5,300 | 550 | 38 | <0.5 | 280 |
| 10/25/90 | | 4,800 | 490 | 22 | 21 | 156 |
| 01/15/91 | | 5,700 | 320 | 29 | 120 | 530 |
| 04/19/91 | | 3,900 | 100 | 77 | 100 | 93 |
| 07/16/91 | | 1,800 | 100 | 5.8 | 41 | 31 |
| 07/16/91 | | 2,700 | 130 | 7.6 | 62 | 45 |
| 10/08/91 | | 1,000 | 17 | <0.5 | 25 | 25 |
| 02/04/92 | | 1,700 | 190 | 5.8 | 18 | 110 |
| 04/06/92 | | 3,800 | 930 | 50 | 110 | 190 |
| 05/03/92 | | 2,400 | 610 | 8.8 | 90 | <0.5 |
| 08/26/92 | | 520 | 36 | 2.0 | 12 | 7.9 |
| 08/26/92(D) | | 450 | 33 | 1.7 | 11 | 3.4 |
| MW-3 | 02/09/90 | <1,000 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/31/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/25/90 | <50 | <0.5 | <0.5 | <0.6 | <0.6 |
| | 01/15/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/19/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/16/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/08/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/04/92 | <50 | 4 | 2 | 7 | 3.2 |
| | 04/06/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/26/82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |

Table 2 (continued)
Summary of Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH-g and BTEX Compounds)

Former Shell Service Station
 2724 Castro Valley Boulevard at Lake Chabot Road
 Castro Valley, California

| Well Number | Date Sampled | TPH-g (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|-------------|--------------|-------------|---------------|---------------|--------------------|---------------|
| MW-5 | 02/09/90 | <1,000 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/20/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/31/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/25/90 | <50 | <0.5 | <0.7 | <0.6 | <0.6 |
| | 01/15/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/19/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/16/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/08/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/06/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| OMW-6 | 07/16/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/08/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/06/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-7 | 07/16/91 | 1,300 | 440 | 140 | 6.9 | 160 |
| | 10/08/91 | 520 | 230 | 36 | 26 | 54 |
| | 02/04/92 | 640 | 130 | 51 | 26 | 79 |
| | 04/06/92 | 80 | 32 | 1.7 | 2.3 | 4.4 |
| | 05/13/92 | <50 | 3.1 | 1.7 | 0.9 | 3.8 |
| | 08/26/92 | 63 | 1.0 | <0.5 | 2.6 | <0.5 |
| OMW-8 | 07/16/91 | <50 | <0.5 | 0.8 | <0.5 | <0.5 |
| | 10/08/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/04/92 | <50 | 0.9 | 1.9 | 0.6 | 3.6 |
| | 04/06/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/26/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |

ppb = Parts per billion
 (D) = Duplicate sample

Table 3 (continued)
Groundwater Analytical Data

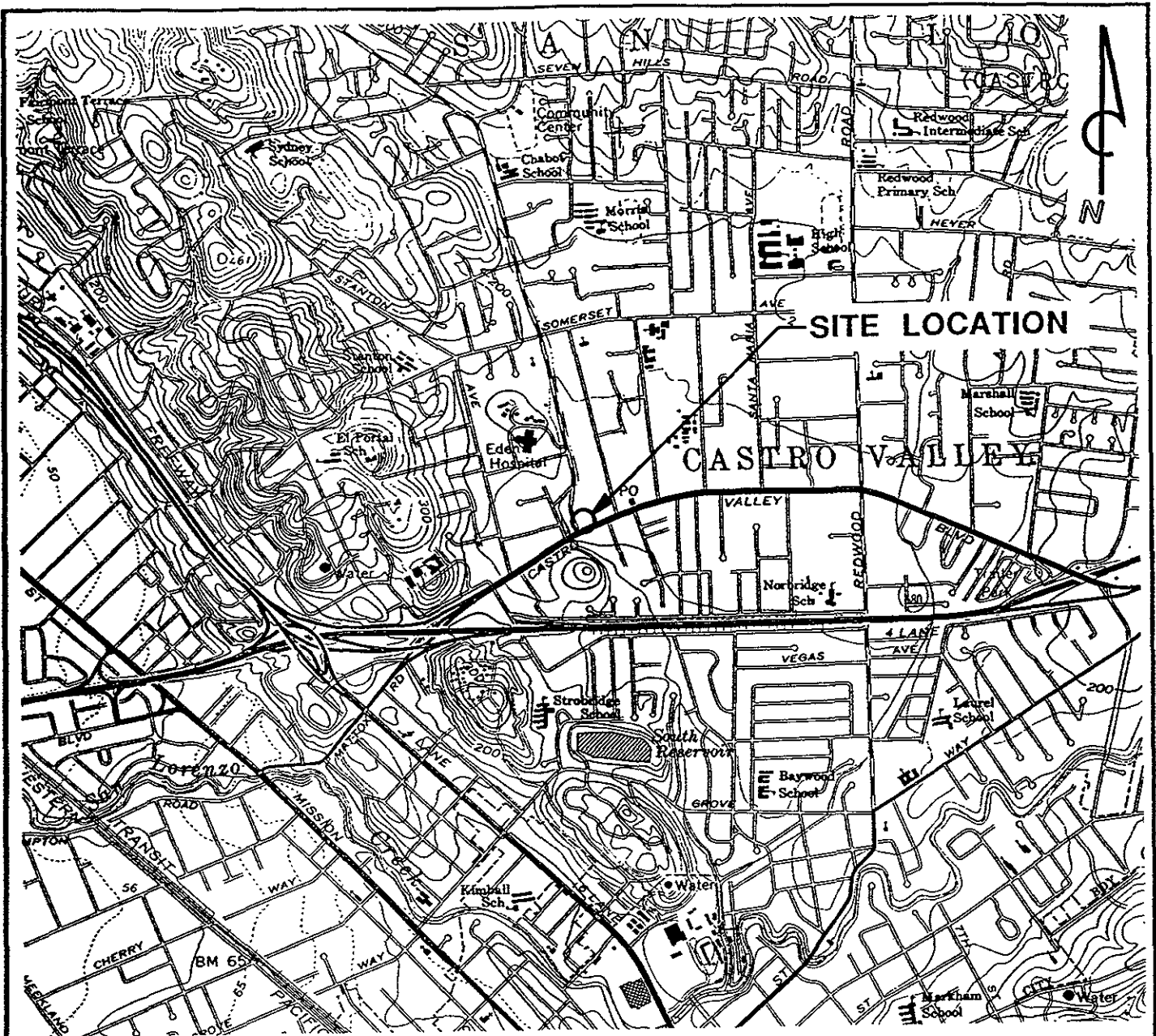
Former Shell Service Station
 2724 Castro Valley Boulevard at Lake Chabot Road
 Castro Valley, California

| Well Number | Sample Date | TPH-d (ppb) | Motor Oil (ppb) |
|---|-------------|-------------|-----------------|
| MW-5 | 02/09/90 | NA | NA |
| | 04/20/90 | NA | NA |
| | 07/31/90 | NA | NA |
| | 10/25/90 | <50 | NA |
| | 01/15/91 | <50 | NA |
| | 04/19/91 | <50 | NA |
| | 07/16/91 | <50 | <50 |
| | 10/08/91 | <50 | <50 |
| | 02/04/92 | <50 | NA |
| | 04/06/92 | <50 | NA |
| | 08/26/92 | <50 | NA |
| OMW-6 | 07/16/91 | <50 | <50 |
| | 10/08/91 | <50 | <50 |
| | 02/04/92 | <50 | NA |
| | 04/06/92 | <50 | NA |
| | 08/26/92 | <50 | NA |
| MW-7 | 07/16/92 | 270 | 1,100 |
| | 10/08/92 | <50 | <50 |
| | 02/04/92 | 140** | NA |
| | 04/06/92 | <50 | NA |
| | 05/13/92 | <50 | NA |
| | 08/26/92 | <50 | NA |
| OMW-8 | 07/16/91 | <50 | <50 |
| | 10/08/91 | <50 | <50 |
| | 02/04/92 | <50 | NA |
| | 04/06/92 | <50 | NA |
| | 08/26/92 | <50 | NA |
| ppb = Parts per billion NA = Not Analyzed NS = Not Sampled * = Did not match motor oil chromatographic pattern. Wax-like pattern present. See individual analytical reports for detection limits. ** = The positive result for TPH-d analysis on this sample appears to be lighter hydrocarbon than diesel. (D) = Duplicate sample | | | |

Table 3
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH-d and Motor Oil)

Former Shell Service Station
 2724 Castro Valley Boulevard at Lake Chabot Road
 Castro Valley, California

| Well Number | Sample Date | TPH-d (ppb) | Motor Oil (ppb) |
|-------------|-------------|-------------|-----------------|
| MW-1 | 02/09/90 | NA | NA |
| | 04/20/90 | NA | NA |
| | 07/31/90 | NA | NA |
| | 10/25/90 | <50 | NA |
| | 01/15/91 | <50 | NA |
| | 01/15/91 | <50 | NA |
| | 04/19/91 | <50 | NA |
| | 04/19/91 | <50 | NA |
| | 07/16/91 | <50 | <50 |
| | 10/08/91 | <50 | <50 |
| | 02/04/92 | <50 | NA |
| | 04/06/92 | <50 | NA |
| | 08/26/92 | 51 | NA |
| | MW-2 | 02/09/90 | 4,100 |
| 04/20/90 | | 1,800 | NA |
| 07/31/90 | | 60 | NA |
| 10/25/90 | | 300 | NA |
| 01/15/91 | | 680 | NA |
| 04/19/91 | | 306 | NA |
| 07/16/91 | | 430 | <50 |
| 07/16/91 | | 540 | <50 |
| 10/08/91 | | 110 | <50 |
| 02/04/92 | | 870 | NA |
| 04/06/92 | | 1,000 | NA |
| 05/13/92 | | 570 | NA |
| 08/26/92 | | 63 | NA |
| 08/26/92(D) | | 63 | NA |
| MW-3 | 02/09/90 | NA | NA |
| | 04/20/90 | NA | NA |
| | 07/31/90 | NA | NA |
| | 10/25/90 | <50 | NA |
| | 01/15/91 | <50 | NA |
| | 04/19/91 | <50 | NA |
| | 07/16/91 | <50 | 1,400 |
| | 10/08/91 | <50 | <50 |
| | 02/04/92 | <50 | NA |
| | 04/06/92 | <50 | NA |
| | 08/24/92 | <50 | NA |

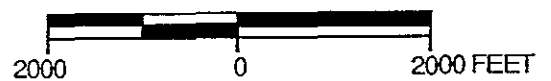


QUADRANGLE
LOCATION

REFERENCES:

USGS 7.5 MIN. TOPOGRAPHIC MAP
TITLED: HAYWARD, CALIFORNIA
DATED: 1959 REVISED: 1980

SCALE

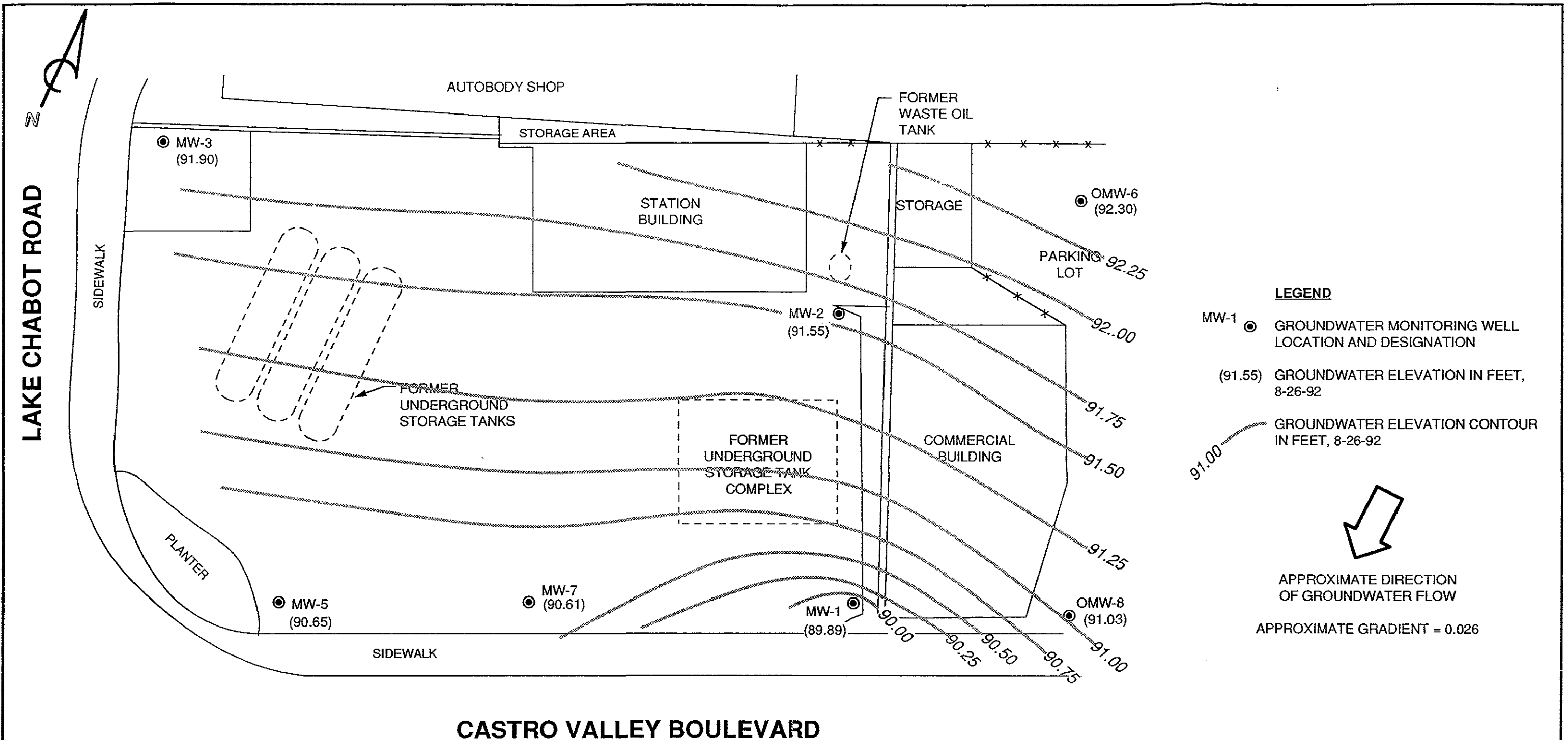


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ENVIRONMENTAL
GROUP, INC.

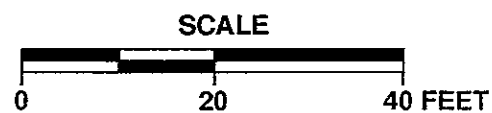
FORMER SHELL SERVICE STATION
2724 Castro Valley Boulevard at Lake Chabot Road
Castro Valley, California

SITE LOCATION MAP

FIGURE:
1
PROJECT:
305-94.01



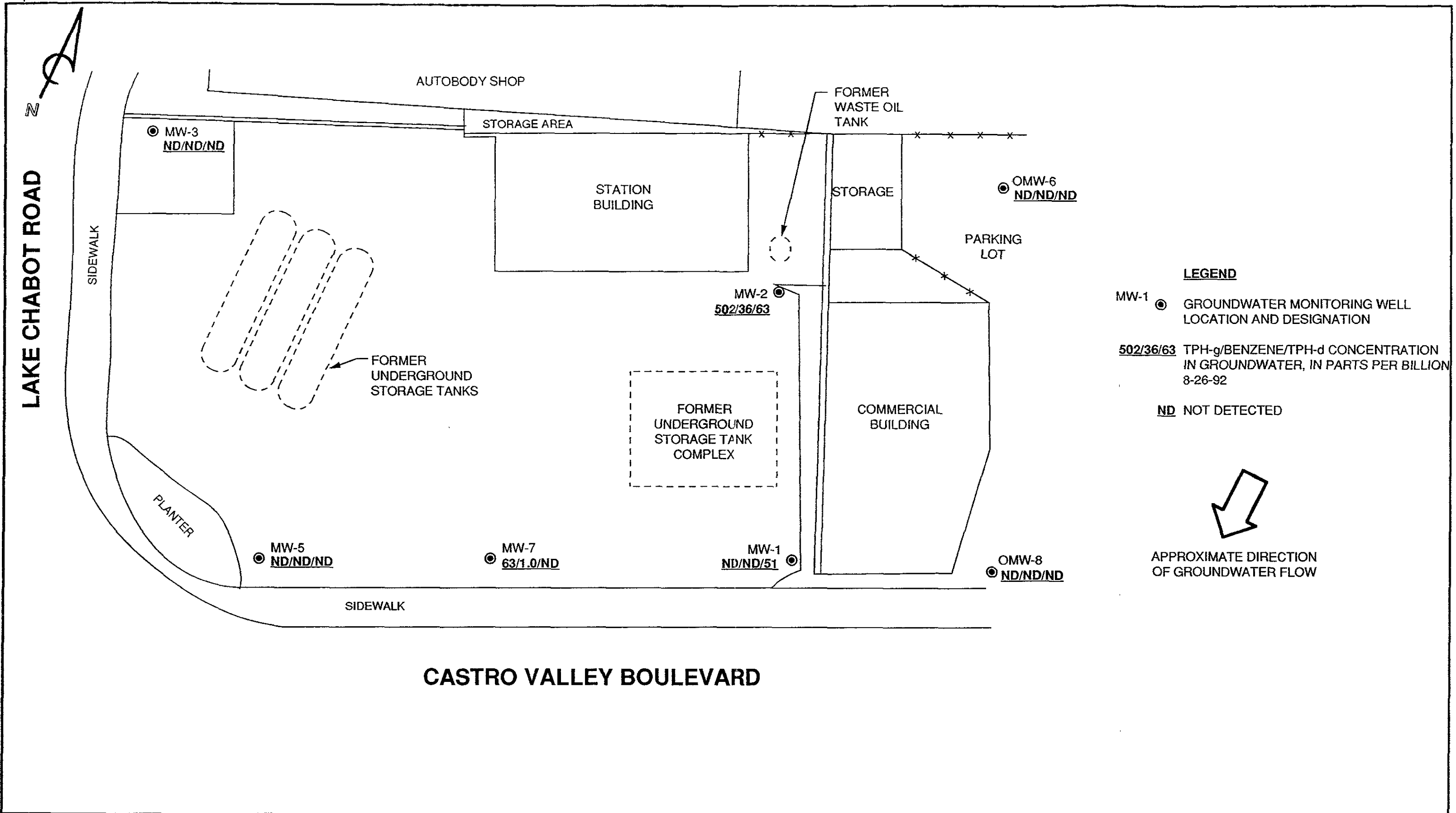
PACIFIC ENVIRONMENTAL GROUP, INC.



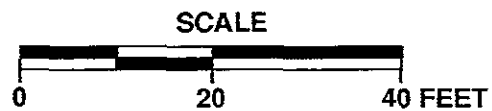
FORMER SHELL SERVICE STATION
 2724 Castro Valley Boulevard at Lake Chabot Road,
 Castro Valley, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE:
2
 PROJECT:
 305-94.01



PACIFIC ENVIRONMENTAL GROUP, INC.

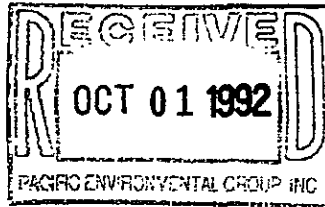


FORMER SHELL SERVICE STATION
2724 Castro Valley Boulevard at Lake Chabot Road,
Castro Valley, California

TPH-g/BENZENE/TPH-d CONCENTRATION MAP

FIGURE:
3
PROJECT:
305-94.01

ATTACHMENT A
GROUNDWATER SAMPLING REPORT



September 29, 1992
Project: G67-68.01
WIC#: 204-1381-0407

Ms. Rhonda Barrick
Pacific Environmental Group, Inc.
1601 Civic Center Drive, Suite 202
Santa Clara, California 95050

Re: Third quarter 1992 ground-water monitoring report, Shell Oil
Company, 2724 Castro Valley Boulevard, Castro Valley, California

Dear Ms. Barrick:

This letter presents the results of the third quarter 1992 ground-water monitoring event for the Shell Oil Company (Shell) site located at 2724 Castro Valley Boulevard, Castro Valley, California (figure 1). Third quarter monitoring was conducted on August 26, 1992. The site is monitored quarterly.

GROUND-WATER LEVEL SURVEY

A water-level survey preceded the purging and sampling of the monitoring wells. The wells included in the survey are identified in figure 2 (supplied by Converse Environmental West). During the survey, wells MW-1, MW-2, MW-3, MW-5, OMW-6, MW-7, and OMW-8 were measured for depth to water, floating product thickness, and total depth. Depth to water and floating product thickness were measured to the nearest 0.01 foot with an oil/water interface probe. No floating product was observed in any wells. Total depth was measured to the nearest 0.1 foot. Results of the third quarter water-level survey, and available data from four previous surveys, are summarized in table 1.

SAMPLING AND ANALYSIS

Ground-water samples were collected from wells MW-1, MW-2, MW-3, MW-5, OMW-6, MW-7, and OMW-8 on August 26, 1992. Prior to sample collection, the wells were purged with polyvinyl chloride bailers. During the purging operation, ground water was monitored for pH, electrical conductivity, and temperature as a function of volume of water removed. Purging continued until these parameters were stable and a minimum of three casing volumes of ground water were removed. Wells MW-2, MW-5, OMW-6, and OMW-8 were evacuated to dryness before the removal of three casing volumes. The wells were allowed to recharge for up to 24 hours. Samples were collected after the wells had recharged to a sufficient level. Field measurements from third quarter monitoring, and

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available measurements from four previous monitoring events, are summarized in table 1. Purge water from the monitoring wells was contained in 55-gallon drums. The drums were identified with Shell-approved labels and secured for on-site storage.

Ground-water samples were collected with a Teflon® bailer, labeled, placed on ice, and transported to Anametrix Inc. for analysis. Shell chain-of-custody documents accompanied all samples to the laboratory.

All equipment that was placed down a well or that came in contact with ground water was steam cleaned with deionized water prior to use at each well.

Quality control samples for third quarter monitoring included a trip blank (TB), a field blank (FB), and a duplicate well sample (MW-2D) collected from well MW-2. All water samples collected during third quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and total petroleum hydrocarbons as diesel (TPH-d).

ANALYTICAL RESULTS

Analytical results for the third quarter 1992 monitoring event, and available results from four previous monitoring events, are summarized in table 2. The original certified analytical report and final chain-of-custody document are attached.

If you have any questions, please call.

Very truly yours,

EMCON Associates



David Larsen
Environmental Sampling Coordinator



Orrin Childs
Environmental Sampling Supervisor

DL/OC:dl

Attachments: Table 1 - Monitoring well field measurement data
Table 2 - Summary of analytical results
Figure 1 - Site location
Figure 2 - Site Map
Certified analytical report
Chain-of-custody document

Table 1
Monitoring Well Field Measurement Data
Third Quarter 1992

Shell Station: 2724 Castro Valley Boulevard
Castro Valley, California
WIC #: 204-1381-0407

Date: 09/28/92
Project Number: G67-68.01

| Well Designation | Water Level Field Date | TOC Elevation (ft-PSD) | Depth to Water (feet) | Ground- water Elevation (ft-PSD) | Total Well Depth (feet) | Floating Product Thickness (feet) | Water Sample Field Date | pH (std. units) | Electrical Conductivity (micromhos/cm) | Temperature (degrees F) | Turbidity (NTU) |
|---------------------|---------------------------------|----------------------------------|------------------------------------|---|--------------------------------------|--|----------------------------------|----------------------------|--|------------------------------------|----------------------------|
| MW-1 | 01/15/91 | 99.78 | 9.11 | 90.67 | NR | ND | 01/15/91 | NR | NR | NR | NR |
| MW-1 | 04/19/91 | 99.78 | 5.58 | 94.20 | NR | ND | 04/19/91 | NR | NR | NR | NR |
| MW-1 | 07/16/91 | 99.78 | 7.58 | 92.20 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| MW-1 | 10/08/91 | 99.78 | 8.25 | 91.53 | 15.3 | ND | 10/08/91 | 7.18 | 1350 | 21.3^ | NR |
| MW-1 | 08/26/92 | 99.78 | 9.23 | 90.55 | 14.3 | ND | 08/26/92 | 7.31 | 1410 | 75.2 | 365 |
| MW-2 | 01/15/91 | 100.83 | 8.52 | 92.31 | NR | ND | 01/15/91 | NR | NR | NR | NR |
| MW-2 | 04/19/91 | 100.83 | 6.90 | 93.93 | NR | ND | 04/19/91 | NR | NR | NR | NR |
| MW-2 | 07/16/91 | 100.83 | 9.01 | 91.82 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| MW-2 | 10/08/91 | 100.83 | 8.82 | 92.01 | 14.9 | ND | 10/08/91 | 7.10 | 1310 | 21.0^ | NR |
| MW-2 | 08/26/92 | 100.83 | 8.74 | 92.09 | 14.8 | ND | 08/26/92 | 7.70 | 1828 | 74.3 | 129 |
| MW-3 | 01/15/91 | 101.48 | 9.74 | 91.74 | NR | ND | 01/15/91 | NR | NR | NR | NR |
| MW-3 | 04/19/91 | 101.48 | 7.92 | 93.56 | NR | ND | 04/19/91 | NR | NR | NR | NR |
| MW-3 | 07/16/91 | 101.48 | 9.40 | 92.08 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| MW-3 | 10/08/91 | 101.48 | 9.62 | 91.86 | 24.4 | ND | 10/08/91 | 7.26 | 1900 | 23.6^ | NR |
| MW-3 | 08/26/92 | 101.48 | 9.31 | 92.17 | 25.2 | ND | 08/26/92 | 7.72 | 3270 | 80.5 | >1000 |
| MW-5 | 01/15/91 | 99.90 | 9.26 | 90.64 | NR | ND | 01/15/91 | NR | NR | NR | NR |
| MW-5 | 04/19/91 | 99.90 | 6.52 | 93.38 | NR | ND | 04/19/91 | NR | NR | NR | NR |
| MW-5 | 07/16/91 | 99.90 | 9.12 | 90.78 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| MW-5 | 10/08/91 | 99.90 | 9.22 | 90.68 | 22.8 | ND | 10/08/91 | 7.42 | 1890 | 21.3^ | NR |
| MW-5 | 08/26/92 | 99.90 | 8.96 | 90.94 | 22.4 | ND | 08/26/92 | 7.40 | 1828 | 76.3 | 109 |

TOC = top of casing
ft-PSD = elevation in feet, relative to project site datum
std. units = standard pH units
micromhos/cm = micromhos per centimeter
degrees F = degrees Fahrenheit
NTU = nephelometric turbidity units
NR = Not reported; data not available
ND = None detected
^ = Temperature measured in degrees centigrade

Table 1
Monitoring Well Field Measurement Data
Third Quarter 1992

Shell Station: 2724 Castro Valley Boulevard
Castro Valley, California
WIC #: 204-1381-0407

Date: 09/28/92
Project Number: G67-68.01

| Well Designation | Water Level Field Date | TOC Elevation (ft-PSD) | Depth to Water (feet) | Ground-water Elevation (ft-PSD) | Total Well Depth (feet) | Floating Product Thickness (feet) | Water Sample Field Date | pH (std. units) | Electrical Conductivity (micromhos/cm) | Temperature (degrees F) | Turbidity (NTU) |
|------------------|------------------------|------------------------|-----------------------|---------------------------------|-------------------------|-----------------------------------|-------------------------|-----------------|--|-------------------------|-----------------|
| OMW-6 | 07/16/91 | 101.48 | 8.60 | 92.88 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| OMW-6 | 10/08/91 | 101.48 | 8.82 | 92.66 | 21.8 | ND | 10/08/91 | 7.39 | 2750 | 19.7 [^] | NR |
| OMW-6 | 08/26/92 | 101.48 | 8.63 | 92.85 | 22.1 | ND | 08/26/92 | 7.20 | 2700 | 78.0 | 563 |
| MW-7 | 07/16/91 | 99.54 | 8.70 | 90.84 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| MW-7 | 10/08/91 | 99.54 | 8.74 | 90.80 | 20.0 | ND | 10/08/91 | 7.00 | 1690 | 19.6 [^] | NR |
| MW-7 | 08/26/92 | 99.54 | 8.61 | 90.93 | 20.3 | ND | 08/26/92 | 7.28 | 1418 | 69.1 | 151 |
| OMW-8 | 07/16/91 | 100.18 | 8.40 | 91.78 | NR | ND | 07/16/91 | NR | NR | NR | NR |
| OMW-8 | 10/08/91 | 100.18 | 8.74 | 91.44 | 19.7 | ND | 10/08/91 | 7.47 | 1150 | 20.1 [^] | NR |
| OMW-8 | 08/26/92 | 100.18 | 8.78 | 91.40 | 19.8 | ND | 08/26/92 | 6.26 | 1160 | 75.0 | 157 |

TOC = top of casing
ft-PSD = elevation in feet, relative to project site datum
std. units = standard pH units
micromhos/cm = micromhos per centimeter
degrees F = degrees Fahrenheit
NTU = nephelometric turbidity units
NR = Not reported; data not available
ND = None detected
[^] = Temperature measured in degrees centigrade

Table 2
 Summary of Analytical Results
 Third Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 2724 Castro Valley Boulevard
 Castro Valley, California
 WIC #: 204-1381-0407

Date: 09/28/92
 Project Number: G67-88.01

| Sample Designation | Water Sample Field Date | TPH-g (mg/l) | Benzene (mg/l) | Toluene (mg/l) | Ethyl-benzene (mg/l) | Total Xylenes (mg/l) | TPH-d (mg/l) | TPH-mo (mg/l) |
|--------------------|-------------------------|-----------------|-------------------|-------------------|-------------------------|-------------------------|-----------------|------------------|
| MW-1 | 01/15/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-1 | 04/19/91 | <0.05 | 0.0077 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-1 | 07/16/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | <0.5 |
| MW-1 | 10/08/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | <0.5 |
| MW-1 | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.051 | NA |
| MW-2 | 01/15/91 | 5.7 | 0.320 | 0.029 | 0.120 | 0.530 | 0.68 | NA |
| MW-2 | 04/19/91 | 3.9 | 0.10 | 0.077 | 0.100 | 0.093 | 0.36 | NA |
| MW-2 | 07/16/91 | 1.8 | 0.100 | 0.0058 | 0.041 | 0.031 | 0.43 | <0.5 |
| MW-2 | 10/08/91 | 1.0 | 0.017 | <0.0005 | 0.025 | 0.025 | 0.11 | <0.5 |
| MW-2 | 08/26/92 | 0.52 | 0.036 | 0.0020 | 0.012 | 0.0079 | 0.063* | NA |
| MW-2D | 08/26/92 | 0.45 | 0.033 | 0.0017 | 0.011 | 0.0034 | 0.063* | NA |
| MW-3 | 01/15/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-3 | 04/19/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-3 | 07/16/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | 1.4 |
| MW-3 | 10/08/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | <0.5 |
| MW-3 | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-5 | 01/15/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-5 | 04/19/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-5 | 07/16/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | <0.5 |
| MW-5 | 10/08/91 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | <0.5 |
| MW-5 | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-mo = total petroleum hydrocarbons as motor oil

NA = Not analyzed

* = Concentration reported as diesel is primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene

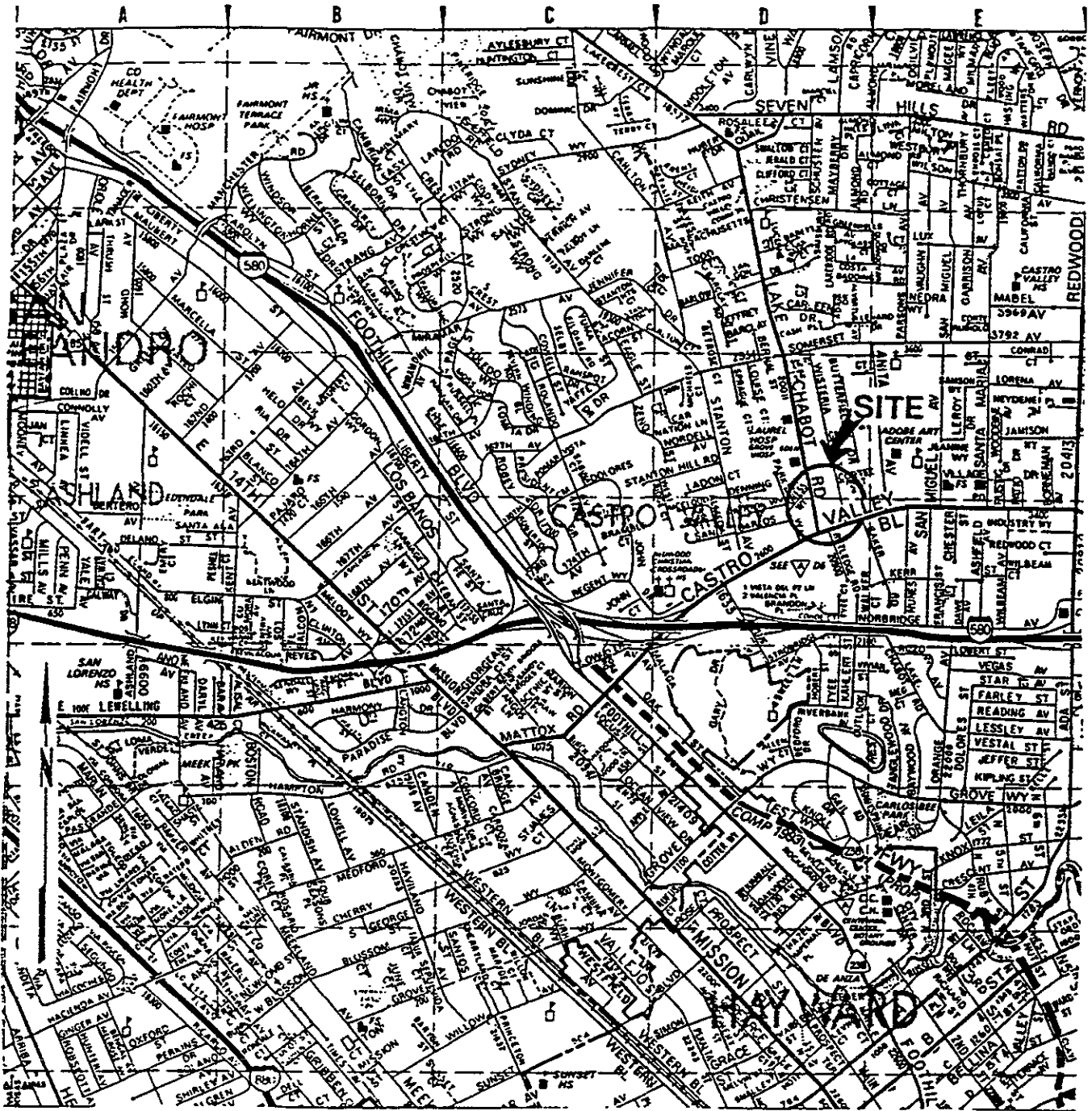
Table 2
 Summary of Analytical Results
 Third Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 2724 Castro Valley Boulevard
 Castro Valley, California
 WIC #: 204-1381-0407

Date: 09/28/92
 Project Number: G67-88.01

| Sample Designation | Water Sample Field Date | TPH-g | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPH-d | TPH-mo |
|--------------------|-------------------------|--------|---------|---------|---------------|---------------|--------|--------|
| | | (mg/l) | (mg/l) | (mg/l) | (mg/l) | (mg/l) | (mg/l) | (mg/l) |
| OMW-6 | 07/16/91 | NR | NR | NR | NR | NR | NR | NR |
| OMW-6 | 10/08/91 | NR | NR | NR | NR | NR | NR | NR |
| OMW-6 | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| MW-7 | 07/16/91 | NR | NR | NR | NR | NR | NR | NR |
| MW-7 | 10/08/91 | NR | NR | NR | NR | NR | NR | NR |
| MW-7 | 08/26/92 | 0.063 | 0.0010 | <0.0005 | 0.0026 | <0.0005 | <0.05 | NA |
| OMW-8 | 07/16/91 | NR | NR | NR | NR | NR | NR | NR |
| OMW-8 | 10/08/91 | NR | NR | NR | NR | NR | NR | NR |
| OMW-8 | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| FB | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |
| TB | 08/26/92 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.05 | NA |

TPH-g = total petroleum hydrocarbons as gasoline
 TPH-d = total petroleum hydrocarbons as diesel
 TPH-mo = total petroleum hydrocarbons as motor oil
 NR = Not reported; data not available
 NA = Not analyzed



SOURCE: Thomas Brothers Maps, 1989.



SITE LOCATION MAP

SHELL OIL COMPANY
 2724 Castro Valley Boulevard
 Castro Valley, California

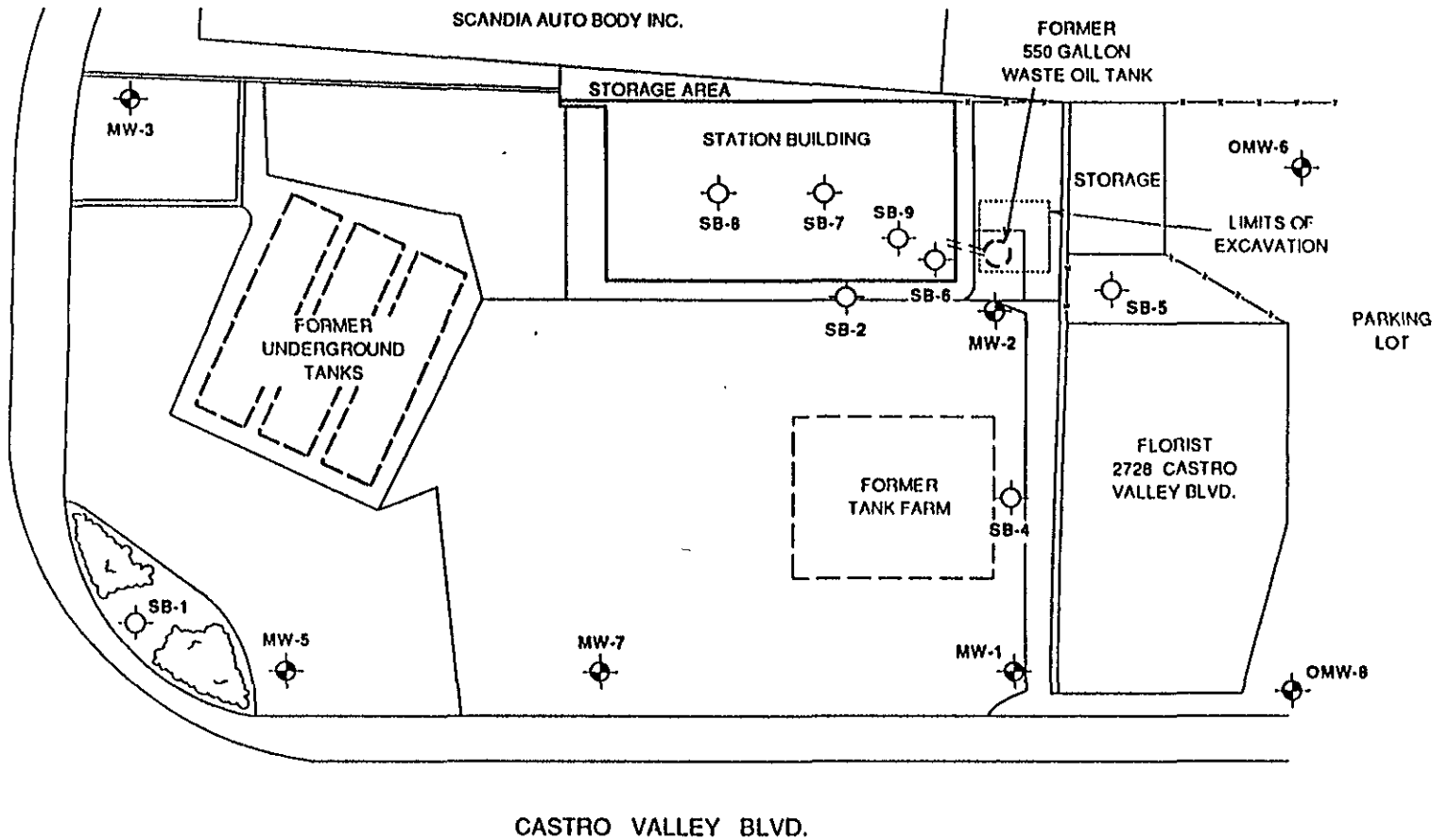
| | | | |
|-------------|----------|-------------|--------------|
| Scale | AS SHOWN | Project No. | 89-44-380-20 |
| Prepared by | LQL | Date | 6/8/90 |
| Checked by | MCC | Drawing No. | |
| Approved by | CRC | | 1 |



Converse Environmental West



LAKE CHABOT ROAD



LEGEND

SB-1 SOIL BORING (locations approximate)

MW-1 GROUNDWATER MONITORING WELL

OMW-9 PROPOSED OFF SITE GROUNDWATER MONITORING WELL

CONCRETE DIVIDER

Base Map: Surveyed with electronic distance meter by CEW, 1990.

PLOT PLAN

SHELL OIL COMPANY
2724 Castro Valley Boulevard
Castro Valley, California

| | | | |
|-------------|---------------|-------------|--------------|
| Scale | AS SHOWN | Project No. | 88-44-380-20 |
| Prepared by | LQL | Date | 10/24/91 |
| Checked by | DS | Drawing No. | 2 |
| WIC Number | 204-1381-0407 | | |



Converse Environmental West

ANAMETRIX INC

Environmental & Analytical Chemistry
 1961 Concourse Drive, Suite E, San Jose, CA 95131
 (408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. DAVID LARSEN
 EMCON ASSOCIATES
 1938 JUNCTION AVE.
 SAN JOSE, CA 95131

Workorder # : 9208328
 Date Received : 08/27/92
 Project ID : 204-1381-0407
 Purchase Order: MOH-B813

The following samples were received at Anamatrix, Inc. for analysis :

| ANAMETRIX ID | CLIENT SAMPLE ID |
|--------------|------------------|
| 9208328- 1 | OMW-6 |
| 9208328- 2 | OMW-8 |
| 9208328- 3 | MW-1 |
| 9208328- 4 | MW-3 |
| 9208328- 5 | MW-5 |
| 9208328- 6 | MW-2 |
| 9208328- 7 | MW-7 |
| 9208328- 8 | MW-2D |
| 9208328- 9 | TB |
| 9208328-10 | FB |

This report consists of 8 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Sarah Schoen, Ph.D.
 Laboratory Director

9-15-92

Date

EMCON ASSOCIATES

SEP 17 1992

RECEIVED

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID LARSEN
EMCON ASSOCIATES
1938 JUNCTION AVE.
SAN JOSE, CA 95131

Workorder # : 9208328
Date Received : 08/27/92
Project ID : 204-1381-0407
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

| ANAMETRIX SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE SAMPLED | METHOD |
|------------------------|---------------------|--------|-----------------|-----------|
| 9208328- 1 | OMW-6 | WATER | 08/26/92 | TPHd |
| 9208328- 2 | OMW-8 | WATER | 08/26/92 | TPHd |
| 9208328- 3 | MW-1 | WATER | 08/26/92 | TPHd |
| 9208328- 4 | MW-3 | WATER | 08/26/92 | TPHd |
| 9208328- 5 | MW-5 | WATER | 08/26/92 | TPHd |
| 9208328- 6 | MW-2 | WATER | 08/26/92 | TPHd |
| 9208328- 7 | MW-7 | WATER | 08/26/92 | TPHd |
| 9208328- 8 | MW-2D | WATER | 08/26/92 | TPHd |
| 9208328- 9 | TB | WATER | 08/26/92 | TPHd |
| 9208328-10 | FB | WATER | 08/26/92 | TPHd |
| 9208328- 1 | OMW-6 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 2 | OMW-8 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 3 | MW-1 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 4 | MW-3 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 5 | MW-5 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 6 | MW-2 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 7 | MW-7 | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 8 | MW-2D | WATER | 08/26/92 | TPHg/BTEX |
| 9208328- 9 | TB | WATER | 08/26/92 | TPHg/BTEX |
| 9208328-10 | FB | WATER | 08/26/92 | TPHg/BTEX |

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID LARSEN
EMCON ASSOCIATES
1938 JUNCTION AVE.
SAN JOSE, CA 95131

Workorder # : 9208328
Date Received : 08/27/92
Project ID : 204-1381-0407
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as diesel for samples MW-2 and MW-2D are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.

Cheyl Balmer 9/15/92
Department Supervisor Date

Reggie Davison 9/15/92
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9208328
Matrix : WATER
Date Sampled : 08/26/92

Project Number : 204-1381-0407
Date Released : 09/14/92

| Reporting Limit | Sample I.D.# OMW-6 | Sample I.D.# OMW-8 | Sample I.D.# MW-1 | Sample I.D.# MW-3 | Sample I.D.# MW-5 |
|----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| COMPOUNDS (mg/L) | -01 | -02 | -03 | -04 | -05 |
| Benzene | 0.0005 | ND | ND | ND | ND |
| Toluene | 0.0005 | ND | ND | ND | ND |
| Ethylbenzene | 0.0005 | ND | ND | ND | ND |
| Total Xylenes | 0.0005 | ND | ND | ND | ND |
| TPH as Gasoline | 0.050 | ND | ND | ND | ND |
| % Surrogate Recovery | 84% | 65% | 82% | 80% | 89% |
| Instrument I.D. | HP12 | HP12 | HP12 | HP12 | HP12 |
| Date Analyzed | 08/31/92 | 08/31/92 | 08/31/92 | 08/31/92 | 08/31/92 |
| RLMF | 1 | 1 | 1 | 1 | 1 |

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 9/15/92
Analyst Date

Cheryl Belman 9/15/92
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9208328
Matrix : WATER
Date Sampled : 08/26/92

Project Number : 204-1381-0407
Date Released : 09/14/92

| Reporting Limit | Sample I.D.# MW-2 | Sample I.D.# MW-7 | Sample I.D.# MW-2D | Sample I.D.# TB | Sample I.D.# FB | |
|----------------------|----------------------|----------------------|-----------------------|--------------------|--------------------|----|
| COMPOUNDS (mg/L) | -06 | -07 | -08 | -09 | -10 | |
| Benzene | 0.0005 | 0.036 | 0.0010 | 0.033 | ND | ND |
| Toluene | 0.0005 | 0.0020 | ND | 0.0017 | ND | ND |
| Ethylbenzene | 0.0005 | 0.012 | 0.0026 | 0.011 | ND | ND |
| Total Xylenes | 0.0005 | 0.0079 | ND | 0.0034 | ND | ND |
| TPH as Gasoline | 0.050 | 0.52 | 0.063 | 0.45 | ND | ND |
| % Surrogate Recovery | 90% | 96% | 87% | 83% | 79% | |
| Instrument I.D. | HP12 | HP12 | HP12 | HP12 | HP12 | |
| Date Analyzed | 09/01/92 | 08/31/92 | 09/01/92 | 08/31/92 | 08/31/92 | |
| RLMF | 2 | 1 | 2 | 1 | 1 | |

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 9/15/92
Analyst Date

Cheryl B... 9/15/92
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9208328
Matrix : WATER
Date Sampled : N/A

Project Number : 204-1381-0407
Date Released : 09/14/92

| COMPOUNDS | Reporting Limit (mg/L) | Sample I.D.# BG3101E3 BLANK |
|----------------------|------------------------------|--------------------------------------|
| Benzene | 0.0005 | ND |
| Toluene | 0.0005 | ND |
| Ethylbenzene | 0.0005 | ND |
| Total Xylenes | 0.0005 | ND |
| TPH as Gasoline | 0.050 | ND |
| % Surrogate Recovery | | 104% |
| Instrument I.D. | | HP12 |
| Date Analyzed | | 08/31/92 |
| RLMF | | 1 |

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Davison 9/15/92
Analyst Date

Cheryl Balmer 9/15/92
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.: 9208328
 Matrix : WATER
 Date Sampled : 08/26/92
 Date Extracted: 08/27/92

Project Number : 204-1381-0407
 Date Released : 09/14/92
 Instrument I.D.: HP23

| Anamatrix I.D. | Client I.D. | Date Analyzed | Reporting Limit (mg/L) | Amount Found (mg/L) |
|----------------|--------------|---------------|------------------------|---------------------|
| 9208328-01 | OMW-6 | 09/11/92 | 0.050 | ND |
| 9208328-02 | OMW-8 | 09/11/92 | 0.050 | ND |
| 9208328-03 | MW-1 | 09/11/92 | 0.050 | 0.051 |
| 9208328-04 | MW-3 | 09/11/92 | 0.050 | ND |
| 9208328-05 | MW-5 | 09/11/92 | 0.050 | ND |
| 9208328-06 | MW-2 | 09/12/92 | 0.050 | 0.063 |
| 9208328-07 | MW-7 | 09/12/92 | 0.050 | ND |
| 9208328-08 | MW-2D | 09/12/92 | 0.050 | 0.063 |
| 9208328-09 | TB | 09/12/92 | 0.050 | ND |
| 9208328-10 | FB | 09/12/92 | 0.050 | ND |
| DWBL082792 | METHOD BLANK | 09/11/92 | 0.050 | ND |

Note : Reporting limit is obtained by multiplying the dilution factor times 0.050 mg/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Davison 9/15/92
 Analyst Date

Cheryl Balmer 9/15/92
 Supervisor Date

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Analyzed : 08/31/92

Anamatrix I.D. : LCSW0831
 Analyst : *RD*
 Supervisor : *CB*
 Date Released : 09/14/92
 Instrument I.D.: HP12

| COMPOUND | SPIKE AMT. (mg/L) | REC LCS (mg/L) | %REC LCS | % REC LIMITS |
|-----------|-------------------------|----------------------|-------------|-----------------|
| GASOLINE | 0.25 | 0.14 | 56% | 48-145 |
| SURROGATE | | 82% | | 53-147 |

*Limits established by Anamatrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 3510 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Extracted: 08/27/92
 Date Analyzed : 09/12/92

Anamatrix I.D. : LCSW0827
 Analyst : RD
 Supervisor : CB
 Date Released : 09/14/92
 Instrument I.D.: HP23

| COMPOUND | SPIKE AMT (mg/L) | LCS REC (mg/L) | % REC LCS | LCSD REC (mg/L) | % REC LCSD | RPD | % REC LIMITS |
|----------|------------------------|----------------------|--------------|-----------------------|---------------|-----|-----------------|
| DIESEL | 1.25 | 0.91 | 73% | 0.88 | 71% | -3% | 63-130 |

*Quality control established by Anamatrix, Inc.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No.: _____

Date: 8-26-92

Page 1 of 2

18:10 hrs 9208328 (18) (10/2)

Site Address: 2724 Castro Valley Blvd.
Castro Valley, CA

Analysis Required

LAB: Anametrix

WIC#: 204-1381-0407

| CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME |
|--|-------|---|
| Quarterly Monitoring <input checked="" type="checkbox"/> | 5461 | 24 hours <input type="checkbox"/> |
| Site Investigation <input type="checkbox"/> | 5441 | 48 hours <input type="checkbox"/> |
| Soil for disposal <input type="checkbox"/> | 5442 | 15 days <input checked="" type="checkbox"/> (Normal) |
| Water for disposal <input type="checkbox"/> | 5443 | Other <input type="checkbox"/> |
| Air Sample - Sys O&M <input type="checkbox"/> | 5452 | NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT. |
| Water Sample - Sys O&M <input type="checkbox"/> | 5453 | |
| Other <input type="checkbox"/> | | |

Shell Engineer: Dan Kirk ? Phone No. (510) 675-6168
Fax #: (510) 675-6168

Consultant Name & Address: 1938 Junction Avenue
EMCON Associates San Jose, CA 95131

Consultant Contact: David Larsen Phone No. (408) 453-2269
Fax #: (408) 453-2269

Comments: 3-VOAs (HCl) for gas, BTEX
2-Liter Glass (SB) for diesel

Sampled By: Kevin Reichelderfer / Bart Stafford
Printed Name: KEVIN REICHELDERFER / Bart Stafford

| Sample ID | Date | Soil | Water | Air | No. of conts. | TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/602) | Volatile Organics (EPA 8240) | Test for Disposal | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|-----------|---------|------|-------|-----|---------------|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------|------------------|---------------|----------------------|----------------------------|
| ① OMW-6 | 8-26-92 | | X | | 5 | X | X | X | | | 40 ml | HCl | No | | |
| ② OMW-8 | | | | | | | | | | | | | | | |
| ③ MW-1 | | | | | | | | | | | | | | | |
| ④ MW-3 | | | | | | | | | | | | | | | |
| ⑤ MW-5 | | | | | | | | | | | | | | | |
| ⑥ MW-2 | | | | | | | | | | | | | | Bubble(1) | |
| ⑦ MW-7 | | | | | | | | | | | | | | | |
| ⑧ MW-2D | | | | | | | | | | | | | | | |

| | | | | | |
|---|-----------------------------------|---------------|--|-----------------------------|---------------|
| Relinquished By (signature): <i>Kevin Reichelderfer</i> | Printed name: KEVIN REICHELDERFER | Date: 8-26-92 | Received (signature): <i>Maria Barajas</i> | Printed name: Maria Barajas | Date: 8/26/92 |
| Relinquished By (signature): | Printed name: | Time: 17:35 | Received (signature): | Printed name: | Time: 17:35 |
| Relinquished By (signature): | Printed name: | Date: | Received (signature): | Printed name: | Date: |
| Relinquished By (signature): | Printed name: | Time: | Received (signature): | Printed name: | Time: |

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

