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September 3, 1992

Mr. Barney Chan  
Department of Environmental Health  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, California 94621

CALIF. REG. WATER  
SEP 04 1992  
QLTY. CONTROL BOARD

Re: Avis Rent A Car System, Inc. -  
Oakland Airport Remediation

Dear Mr. Chan:

Enclosed please find Avis' Quarterly Ground-Water  
Monitoring Report dated August 27, 1992 prepared by McCulley,  
Frick & Gilman on the remediation being conducted at the Oakland  
Airport rental car facility.

Please let me know if you have any questions or comments.

Very truly yours,

Beth L. Hamilton

Enc.

cc: Mr. Ralph DeCarli, Avis w/enc.  
Mr. Lester Feldman, RWQCB w/enc.  
Ms. Michele Heffes, Port of Oakland w/enc.  
Mr. Ed Conti, MF&G w/o enc.

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# **QUARTERLY GROUND WATER MONITORING REPORT**

**Avis Rent A Car System, Inc.  
Oakland International Airport Facility  
Oakland, California**

**Prepared for**

**Avis Rent A Car System, Inc.  
900 Old Country Road  
Garden City, New York 11530**

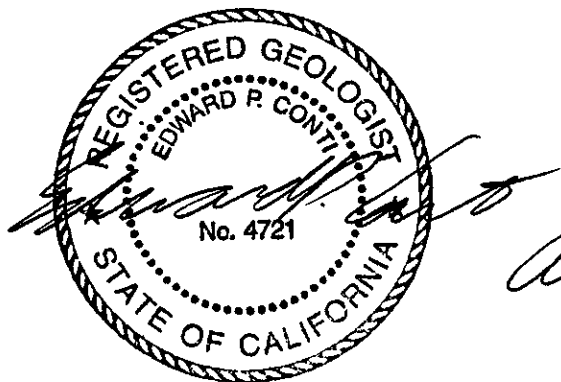
**August 27, 1992**

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**McCULLEY, FRICK & GILMAN, INC.  
Environmental Sciences and Engineering**

PROFESSIONAL CERTIFICATION

This report has been prepared by McCulley, Frick & Gilman, Inc. under the professional supervision of Edward P. Conti. The findings, recommendations, specifications and/or professional opinions presented in this report have been prepared in accordance with generally accepted professional hydrogeologic practice, and within the scope of the project. There is no other warranty, either express or implied.



*August 27, 1992*

Edward P. Conti  
RG No. 4721  
Senior Geologist  
McCULLEY, FRICK & GILMAN, INC.

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# QUARTERLY GROUND WATER MONITORING REPORT

## AVIS RENT A CAR SYSTEM, INC. OAKLAND INTERNATIONAL AIRPORT FACILITY OAKLAND, CALIFORNIA

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### 1.0 INTRODUCTION

This report presents the methods and results of the July 1992 quarterly ground water monitoring event conducted at the Avis Rent A Car System, Inc. (Avis) facility at Oakland International Airport, Neil Armstrong Way, Oakland, California (hereinafter the "Site"). The Site location is illustrated in Figure 1. The monitoring program was conducted by McCulley, Frick & Gilman, Inc. (MFG) on behalf of Avis.

The monitoring program conducted at the Avis facility consisted of the following tasks:

- (1) Measurement of water levels in monitoring wells MW-1A, MW-2 and MW-3, and preparation of a potentiometric surface map of the shallow ground water; and
- (2) Collection and chemical analysis of ground water samples from monitoring wells MW-1A, MW-2 and MW-3.

The monitoring well locations are illustrated in Figure 2. The methods and results of the ground water monitoring program are described below.

## 2.0 GROUND WATER SAMPLING AND ANALYSIS

### 2.1 FIELD METHODS

The methods used to measure the water levels and collect ground water samples from monitoring wells MW-1A, MW-2 and MW-3 are described below.

#### 2.1.1 Water Level Measurement

MFG measured the water levels in monitoring wells MW-1A, MW-2 and MW-3 on July 28, 1992 using a weighted, graduated steel tape. Evaluation of the water level data is discussed in Section 3.0 of this report. Following water level measurement, MFG checked for the presence of a light immiscible layer (free product) or sheen using a clear, acrylic bailer. No free product or sheen was observed in the three wells.

#### 2.1.2 Ground Water Sampling

MFG collected ground water samples from monitoring wells MW-1A, MW-2 and MW-3 on July 28, 1992. Prior to collecting samples, each well was purged using a positive displacement hand pump. Wells MW-1A and MW-3 were pumped dry after removal of approximately 3.1 casing volumes (4 gallons) and 1.6 casing volumes (2.2 gallons), respectively. Approximately 5.4 casing volumes (7.5 gallons) of water were removed from well MW-2 during the purging process. The temperature, pH and specific conductance of the water were monitored during purging.

After purging, the ground water samples were collected using a Teflon® bailer. One bailer volume collected from each well was used to measure the temperature, pH and specific conductance of the sample. The field measured values of these parameters were as follows:

| Sample | Temperature<br>(°C) | pH  | Specific Conductance<br>(micromhos/cm at 25°C) |
|--------|---------------------|-----|--|
| MW-1A  | 23                  | 7.1 | 11,000   |
| MW-2   | 20                  | 7.0 | 5,300  |
| MW-3   | 21                  | 7.1 | 35,000   |

The following samples were subsequently collected from each well and placed in containers supplied by the laboratory:

- Total Volatile Petroleum Hydrocarbons (TPH) as Gasoline and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX): two, 40-milliliter (ml) glass vials closed with a screw cap with a Teflon®-lined septum, containing hydrochloric acid placed in the vials by the laboratory for sample preservation; and

In addition, the following sample was collected from well MW-1A and placed in containers supplied by the laboratory:

- Polynuclear Aromatic Hydrocarbons (PNA's): two, one-liter amber glass bottles with Teflon®-lined lids.

After filling, the ground water sample containers were placed in an ice-cooled, insulated chest for transport to the laboratory for analysis. A chain-of-custody record was completed for the samples and accompanied the samples until receipt by the laboratory.

All equipment used in purging the wells was washed in an Alconox detergent-water solution and rinsed with tap water both before and after use in each well. All equipment used in sampling the wells was washed in an Alconox detergent-water solution, rinsed with tap water, and then rinsed with deionized water both before and after use in each well.



## 2.2 ANALYTICAL METHODS AND RESULTS

The ground water samples were analyzed by Sequoia Analytical, Inc. (Sequoia) laboratory of Redwood City, California. The following analyses were performed by Sequoia:

- A. TPH as Gasoline (EPA Method 5030/modified EPA Method 8015)
- B. BTEX (EPA Method 5030/modified EPA Method 8020)
- C. PNA's (EPA Method 8310)

The laboratory results are summarized in Table 1. Copies of the laboratory report and chain-of-custody record are included in Appendix A.

TPH as gasoline, benzene, toluene, ethylbenzene and total xylenes were not detected above their laboratory method reporting limits in the ground water samples collected from wells MW-1A, MW-2 and MW-3 on July 28, 1992. In addition, PNA's were not detected above their respective laboratory method reporting limits in the ground water sample collected from well MW-1A.

### 3.0 EVALUATION OF LATERAL HYDRAULIC GRADIENT

MFG measured the depth to ground water in wells MW-1A, MW-2 and MW-3 on July 28, 1992 (Table 2). The depth to water in the wells ranged from approximately six to seven feet below the ground surface. The elevations of the water surface in the wells were calculated using the depth to water measurements and the measuring point (north side, top of casing) elevations of the wells. A potentiometric surface map of the shallow ground water on July 28, 1992 was constructed using these data and is shown in Figure 11. The potentiometric surface contours illustrate that the direction of the lateral hydraulic gradient on July 28, 1992 was southeast, with an approximate magnitude of 0.003.

Water level measurements performed periodically at the Site from May 1990 to April 1992 indicate that the direction of the lateral hydraulic gradient has varied from south-southeast to east-northeast. Historical potentiometric surface maps of the shallow ground water at the Site are included in Figures 3 through 10.

#### 4.0 GROUND WATER MONITORING SCHEDULE

The anticipated date for the next ground water monitoring event is October 1992. The next ground water monitoring report will be submitted by November 30, 1992.

TABLE 1  
(Page 1 of 3)

SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER SAMPLES<sup>1</sup>

Avis Rent A Car System, Inc.  
Oakland International Airport Facility  
Oakland, California

| WELL NO.           | SAMPLE NO. | DATE SAMPLED           | TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (mg/L) | BENZENE (mg/L) | TOLUENE (mg/L) | ETHYLBENZENE (mg/L)                 | TOTAL XYLENES (mg/L) | NAPHTHALENE (mg/L) | OTHER POLYNUCLEAR AROMATIC HYDROCARBONS (mg/L) |
|--------------------|------------|------------------------|---|----------------|----------------|-------------------------------------|----------------------|--------------------|--|
|                    |            |                        | Reporting Limit: 0.05                           | 0.0005         | 0.0005         | 0.0005                              | 0.0005               | 0.0005             | 0.01   |
| MW-1               | MW-1       | 23-May-90              | 12  | 0.65           | 0.05           | ND <sup>2</sup> [0.05] <sup>3</sup> | 2.2                  | 0.25               | 0.033 <sup>4</sup>                             |
|                    | MW-1       | 26-Sep-90              | 0.66  | ND [0.0025]    | 0.004          | 0.028                               | 0.046                | 0.016              | ND   |
|                    | MW-1       | 17-Dec-90 <sup>5</sup> | 1.6   | 0.19           | ND [0.005]     | 0.063                               | 0.027                | 0.039              | 0.023 <sup>6</sup>                             |
| MW-1A <sup>7</sup> | MW-1A      | 30-Apr-91              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-1A      | 17-Jul-91              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-1A      | 18-Oct-91              | ND  | ND             | 0.0023         | ND                                  | ND                   | ND                 | ND   |
|                    | MW-1A      | 25-Nov-91              | 0.051   | 0.0018         | ND             | ND                                  | 0.0017               | NA <sup>8</sup>    | NA   |
|                    | MW-1A      | 3-Jan-92               | 0.077   | 0.0024         | 0.0009         | 0.0014                              | 0.0032               | ND                 | ND   |
|                    | MW-1A      | 2-Apr-92               | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-1A      | 28-Jul-92              | ND  | ND             | ND             | ND                                  | ND                   | ND [0.005]         | ND   |
| MW-2               | MW-2       | 23-May-90              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-2       | 26-Sep-90              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-2       | 17-Dec-90              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-2       | 13-Mar-91              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |
|                    | MW-2       | 17-Jul-91              | ND  | ND             | ND             | ND                                  | ND                   | ND                 | ND   |

TABLE 1  
(Page 2 of 3)

SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER SAMPLES<sup>1</sup>

Avis Rent A Car System, Inc.  
Oakland International Airport Facility  
Oakland, California

| WELL NO. | SAMPLE NO. | DATE SAMPLED | TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (mg/L) | BENZENE (mg/L) | TOLUENE (mg/L) | ETHYLBENZENE (mg/L) | TOTAL XYLENES (mg/L) | NAPHTHALENE (mg/L) | OTHER POLYNUCLEAR AROMATIC HYDROCARBONS (mg/L) |
|----------|------------|--------------|---|----------------|----------------|---------------------|----------------------|--------------------|--|
|          |            |              | Reporting Limit: 0.05                           | 0.0005         | 0.0005         | 0.0005              | 0.0005               | 0.01               | 0.01   |
| MW-2     | MW-2       | 18-Oct-91    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-2       | 3-Jan-92     | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-2       | 2-Apr-92     | ND  | ND             | ND             | ND                  | ND                   | NA                 | NA   |
|          | MW-2       | 28-Jul-92    | ND  | ND             | ND             | ND                  | ND                   | NA                 | NA   |
| MW-3     | MW-3       | 23-May-90    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-3       | 26-Sep-90    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-3       | 17-Dec-90    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-3       | 13-Mar-91    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-3       | 17-Jul-91    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-3       | 18-Oct-91    | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |
|          | MW-3       | 3-Jan-92     | ND  | ND             | ND             | ND                  | ND                   | ND                 | ND   |

TABLE 1  
(Page 3 of 3)

SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER SAMPLES<sup>1</sup>

Avis Rent A Car System, Inc.  
Oakland International Airport Facility  
Oakland, California

| WELL<br>NO. | SAMPLE<br>NO. | DATE SAMPLED | TOTAL<br>PETROLEUM<br>HYDROCARBONS<br>AS GASOLINE<br>(mg/L) | BENZENE<br>(mg/L) | TOLUENE<br>(mg/L) | ETHYLBENZENE<br>(mg/L) | TOTAL<br>XYLENES<br>(mg/L) | NAPHTHALENE<br>(mg/L) | OTHER<br>POLYNUCLEAR<br>AROMATIC<br>HYDROCARBONS<br>(mg/L) |
|-------------|---------------|--------------|---|-------------------|-------------------|------------------------|----------------------------|-----------------------|--|
|             |               |              | Reporting Limit:  | 0.05              | 0.0005            | 0.0005                 | 0.0005                     | 0.0005                | 0.01   |
| MW-3        | MW-3          | 2-Apr-92     | ND  | ND                | ND                | ND                     | ND                         | NA                    | NA   |
|             | MW-3          | 28-Jul-92    | ND  | ND                | ND                | ND                     | ND                         | NA                    | NA   |

NOTES:

- <sup>1</sup> Constituents in the EPA Method 8270 or 8310 analyses (PNA's) which are not listed were not detected in ground water samples.
- <sup>2</sup> ND = Not Detected at or above the reporting limit indicated at top of column.
- <sup>3</sup> [ ] Indicates reporting limit other than that indicated at top of column.
- <sup>4</sup> The PNA compound 2-methyl-naphthalene was detected at a concentration of 0.033 mg/L.
- <sup>5</sup> Monitoring Well MW-1 was sealed and abandoned on February 26, 1991.
- <sup>6</sup> The PNA compound acenaphthene was detected at a concentration of 0.023 mg/L.
- <sup>7</sup> Monitoring Well MW-1A was installed on April 1, 1991.
- <sup>8</sup> NA = Not Analyzed

TABLE 2  
(Page 1 of 2)

SUMMARY OF WATER LEVEL DATA FOR  
GROUND WATER MONITORING WELLS

Avis Rent A Car System, Inc.  
Oakland International Airport Facility  
Oakland, California

| WELL  | MEASUREMENT DATE       | DEPTH TO WATER (ft BMP <sup>1</sup> ) | MEASURING POINT ELEVATION <sup>2</sup> (ft NGVD <sup>3</sup> ) | WATER LEVEL ELEVATION (ft NGVD) |
|-------|------------------------|---------------------------------------|--|---------------------------------|
| MW-1  | 23-May-90              | 5.62                                  | 3.34   | -2.28                           |
|       | 26-Sep-90              | 6.29                                  | 3.34   | -2.95                           |
|       | 17-Dec-90              | 5.92                                  | 3.34   | -2.58                           |
|       | 26-Feb-91 <sup>4</sup> | 5.69                                  | 3.34   | -2.35                           |
| MW-1A | 30-Apr-91 <sup>5</sup> | 5.10                                  | 3.20   | -1.90                           |
|       | 17-Jul-91              | 5.73                                  | 3.20   | -2.53                           |
|       | 18-Oct-91              | 6.09                                  | 3.20   | -2.89                           |
|       | 3-Jan-92               | 5.90                                  | 3.20   | -2.70                           |
|       | 2-Apr-92               | 4.75                                  | 3.20   | -1.55                           |
|       | 28-Jul-92              | 5.93                                  | 3.20   | -2.73                           |
| MW-2  | 23-May-90              | 6.13                                  | 4.25   | -1.88                           |
|       | 26-Sep-90              | 6.62                                  | 4.25   | -2.37                           |
|       | 17-Dec-90              | 6.40                                  | 4.25   | -2.15                           |
|       | 26-Feb-91              | 5.96                                  | 4.25   | -1.71                           |
|       | 17-Jul-91              | 6.09                                  | 4.07 <sup>6</sup>  | -2.02                           |
|       | 18-Oct-91              | 6.47                                  | 4.07   | -2.40                           |
|       | 3-Jan-92               | 6.39                                  | 4.07   | -2.32                           |
|       | 2-Apr-92               | 5.58                                  | 4.07   | -1.51                           |
|       | 28-Jul-92              | 6.38                                  | 4.07   | -2.31                           |
| MW-3  | 23-May-90              | 6.77                                  | 3.98   | -2.79                           |
|       | 26-Sep-90              | 7.28                                  | 3.98   | -3.30                           |
|       | 17-Dec-90              | 7.05                                  | 3.98   | -3.07                           |
|       | 26-Feb-91              | 6.63                                  | 3.98   | -2.65                           |
|       | 17-Jul-91              | 6.75                                  | 3.98   | -2.77                           |
|       | 18-Oct-91              | 7.18                                  | 3.98   | -3.20                           |
|       | 3-Jan-91               | 6.91                                  | 3.98   | -2.93                           |

TABLE 2  
(Page 2 of 2)

SUMMARY OF WATER LEVEL DATA FOR  
GROUND WATER MONITORING WELLS

Avis Rent A Car System, Inc.  
Oakland International Airport Facility  
Oakland, California

| WELL | MEASUREMENT DATE | DEPTH TO WATER (ft BMP <sup>1</sup> ) | MEASURING POINT ELEVATION <sup>2</sup> (ft NGVD <sup>3</sup> ) | WATER LEVEL ELEVATION (ft NGVD) |
|------|------------------|---------------------------------------|--|---------------------------------|
| MW-3 | 2-Apr-92         | 5.53                                  | 3.98   | -1.55                           |
|      | 28-Jul-92        | 7.00                                  | 3.98   | -3.02                           |

NOTES:

<sup>1</sup> BMP = Below Measuring Point.

<sup>2</sup> Measuring Point is north side of top of PVC well casing.

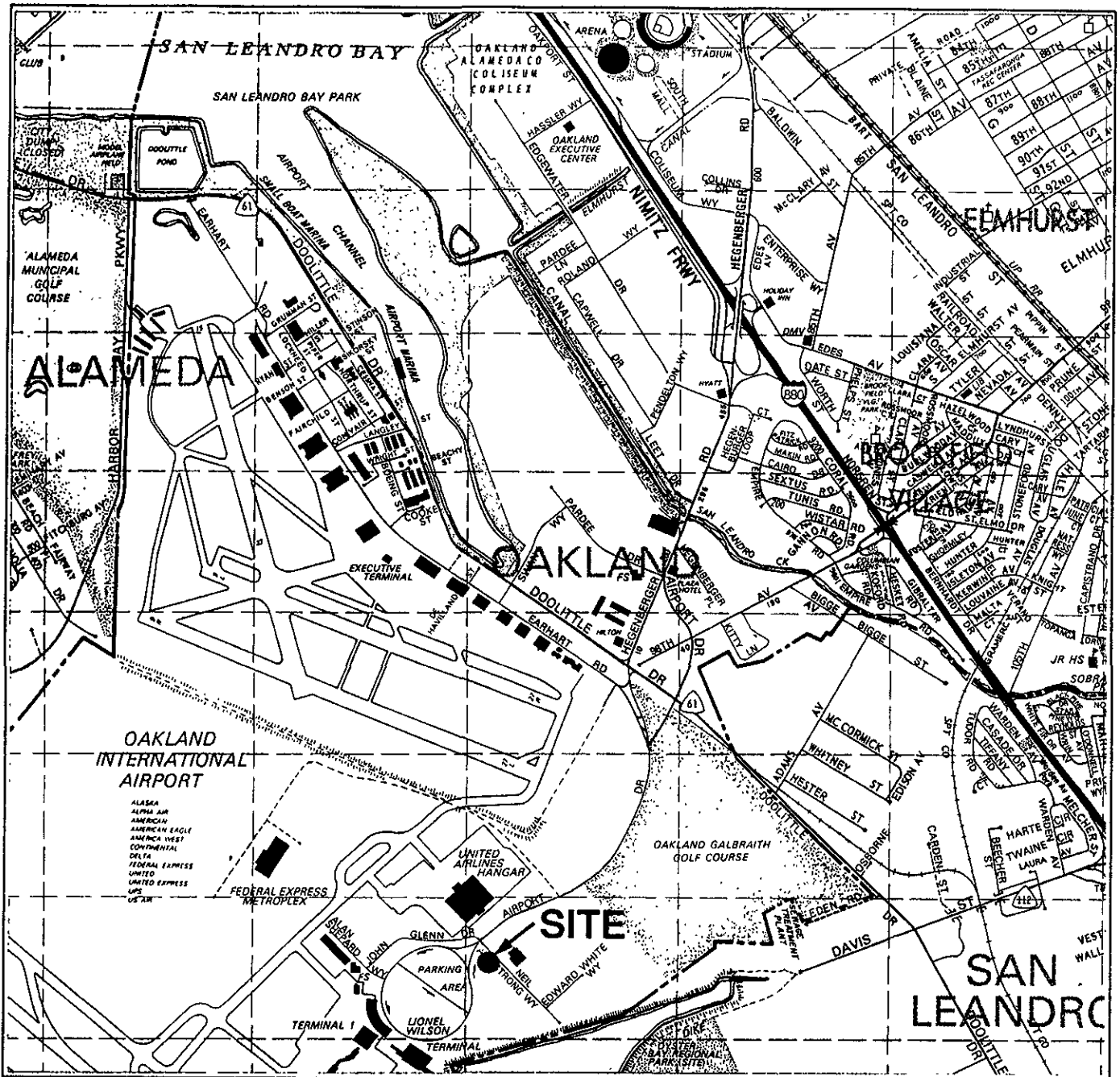
<sup>3</sup> National Geodetic Vertical Datum of 1929.

<sup>4</sup> Monitoring Well MW-1 was sealed and abandoned on February 26, 1991.

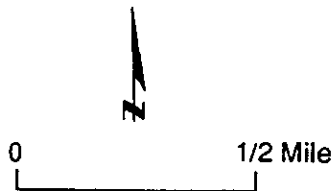
<sup>5</sup> Monitoring well MW-1A was installed on April 1, 1991.

<sup>6</sup> The top of the PVC casing for well MW-2 was repaired on March 13, 1991. The measuring point elevation of well MW-2 was resurveyed on April 9, 1991. The new measuring point elevation is 4.07 ft. NGVD.



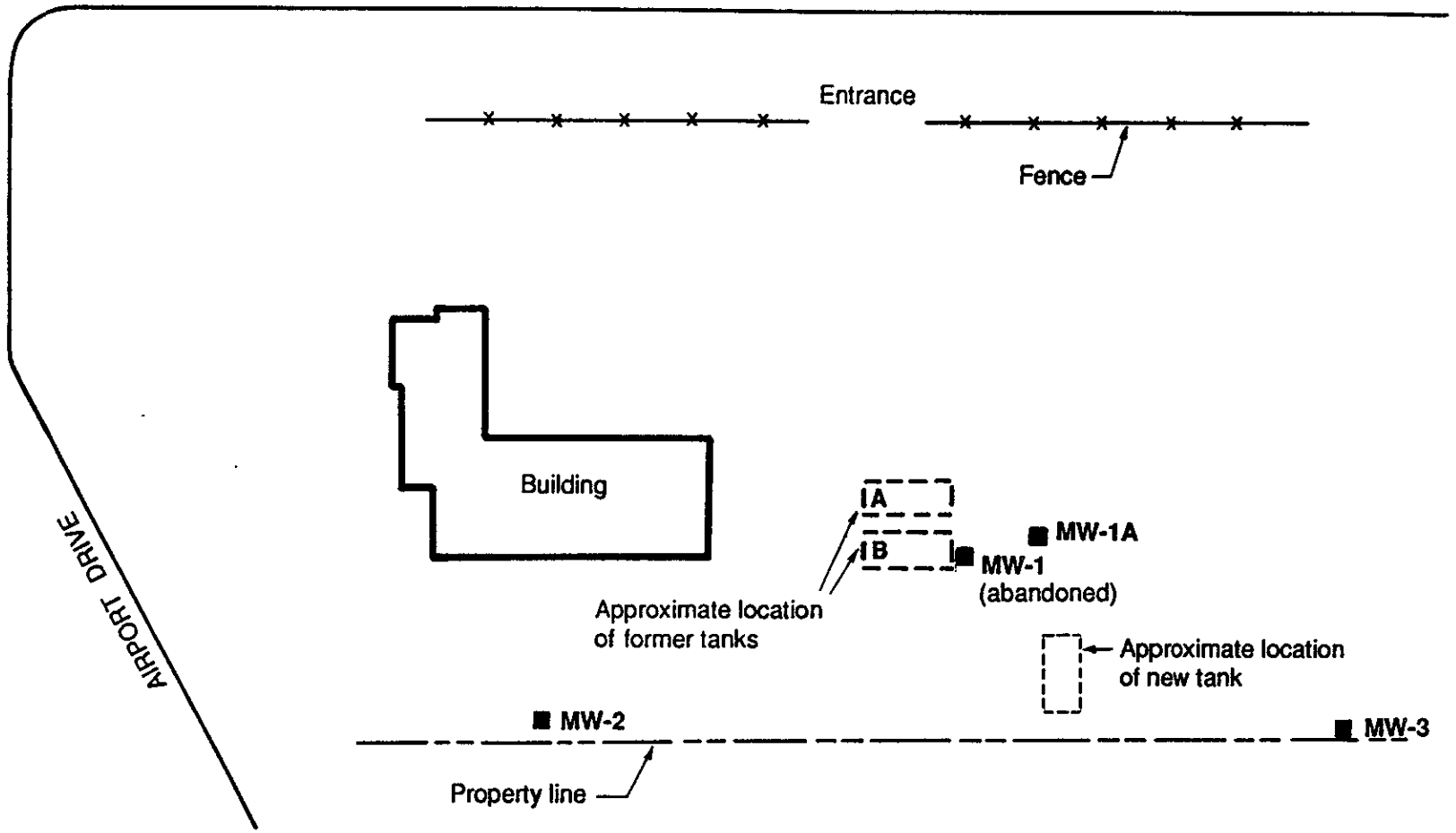


Source: The Thomas Guide,  
Alameda and Santa Clara Counties Street Guide and Directory,  
1989 Edition



|   |                        |             |
|---|------------------------|-------------|
| <b>LOCATION MAP</b><br><b>Avis Rent A Car System, Inc. Facility</b><br><b>Oakland International Airport</b><br><b>Oakland, California</b> |                        |             |
| McCulley, Frick<br>& Gilman, Inc.   | Project No.<br>90-2143 | Figure<br>1 |

NEIL ARMSTRONG WAY



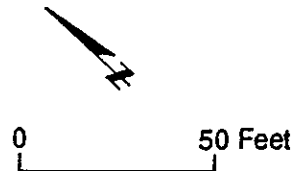
**EXPLANATION**

**MW-2** ■ Location of monitoring well

**Notes:**

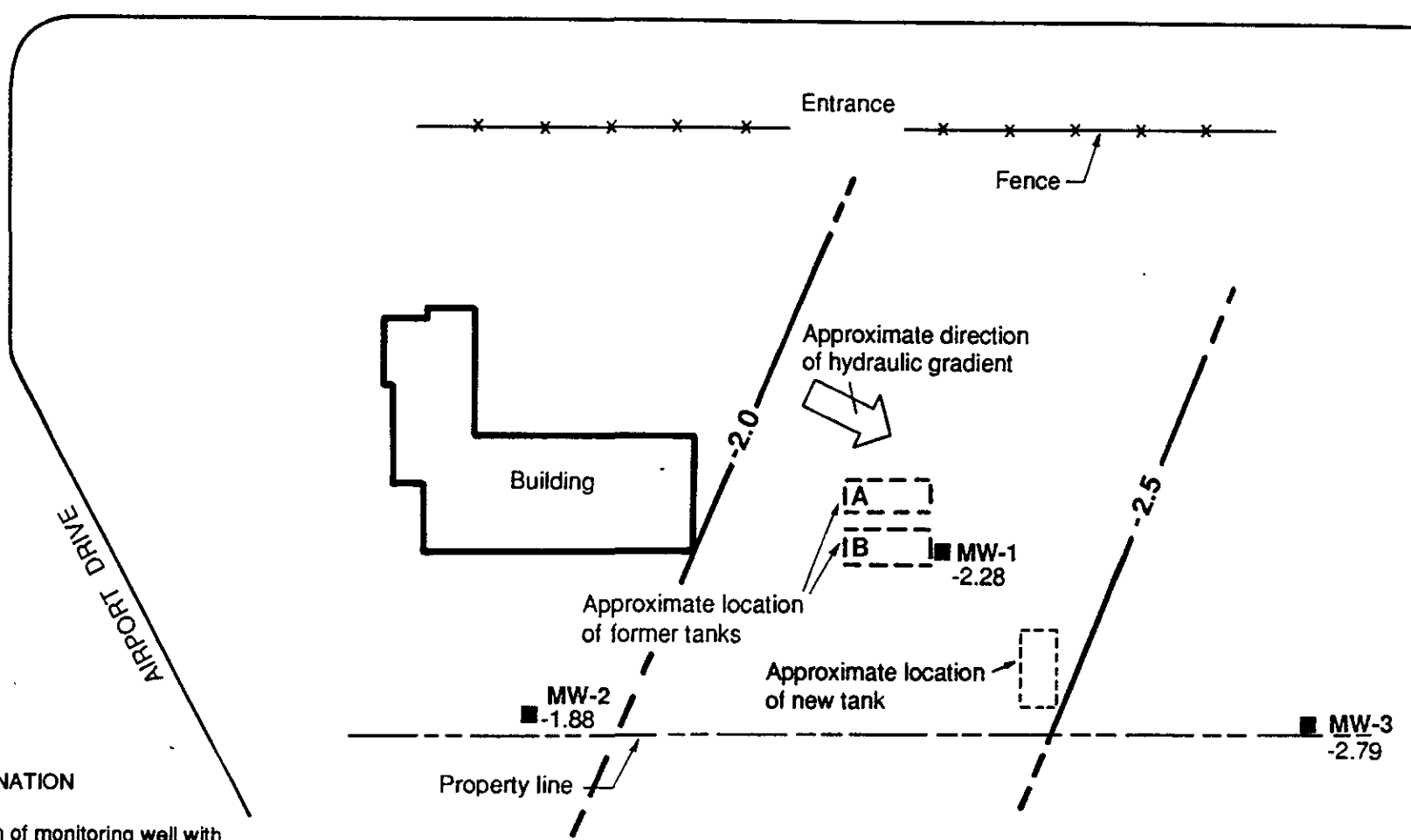
1. Well MW-1 abandoned on February 26, 1991.
2. Well MW-1A installed on April 1, 1991.

Source: Adapted from Blaine Tech Services, Inc.  
Sampling Report 890825M1, dated August 25, 1989



|   |                        |             |
|---|------------------------|-------------|
| <b>SITE PLAN</b><br>Avis Rent A Car System, Inc. Facility<br>Oakland International Airport<br>Oakland, California |                        |             |
| McCulley, Frick<br>& Gilman, Inc.   | Project No.<br>90-2143 | Figure<br>2 |

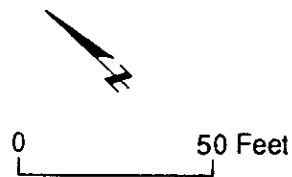
NEIL ARMSTRONG WAY



EXPLANATION

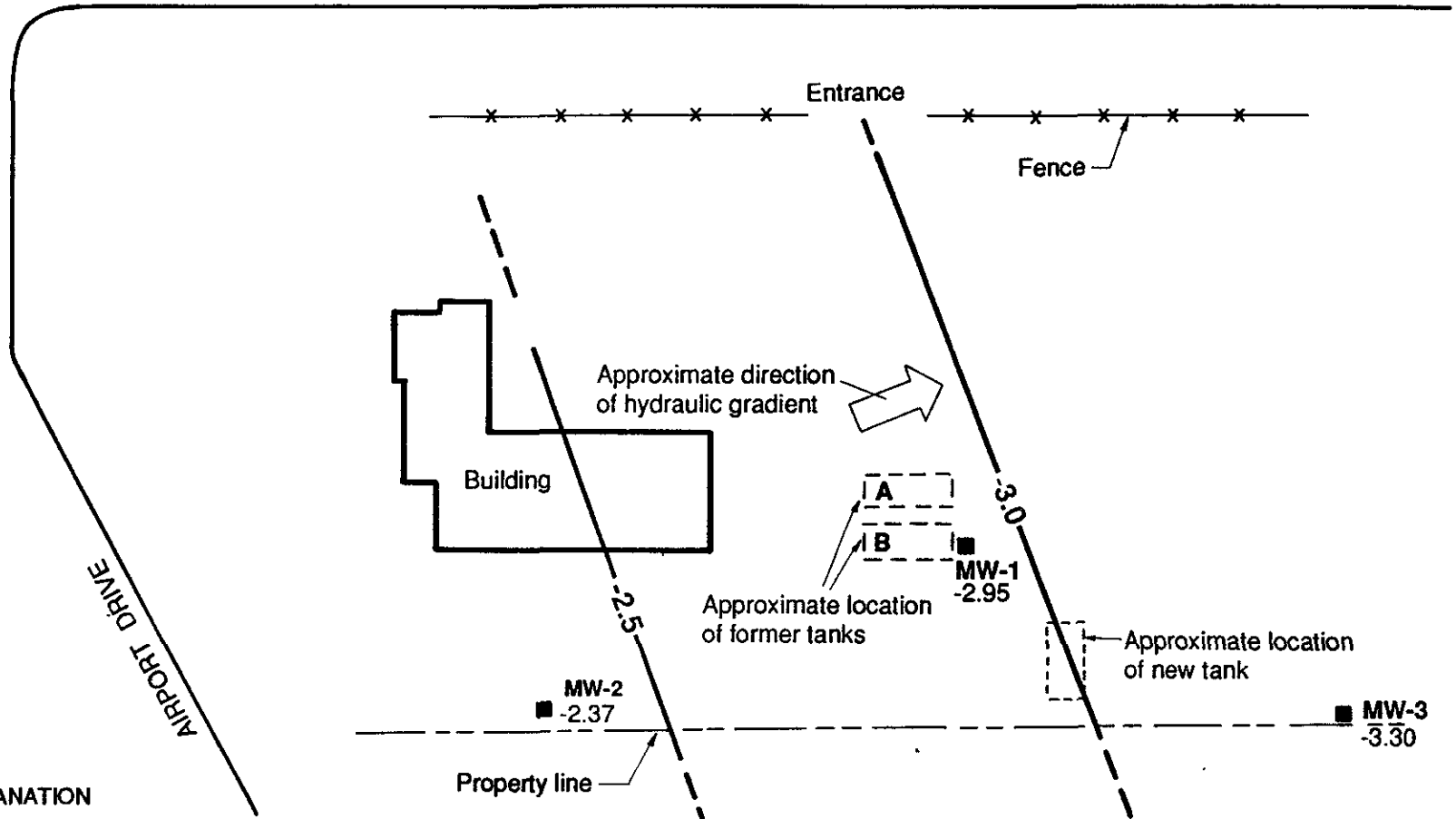
- MW-1 ■ Location of monitoring well with elevation of potentiometric surface on May 23, 1990 (ft. NGVD) -2.28
- Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989



|  |                     |          |
|--|---------------------|----------|
| <b>POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER</b><br><b>MAY 23, 1990</b><br><b>Avis Rent A Car System, Inc. Facility</b><br><b>Oakland International Airport</b><br><b>Oakland, California</b> |                     |          |
| McCulley, Frick & Gilman, Inc.   | Project No. 90-2143 | Figure 3 |

NEIL ARMSTRONG WAY



**EXPLANATION**

- MW-1** ■ Location of monitoring well with elevation of potentiometric surface on September 26, 1990
- Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989

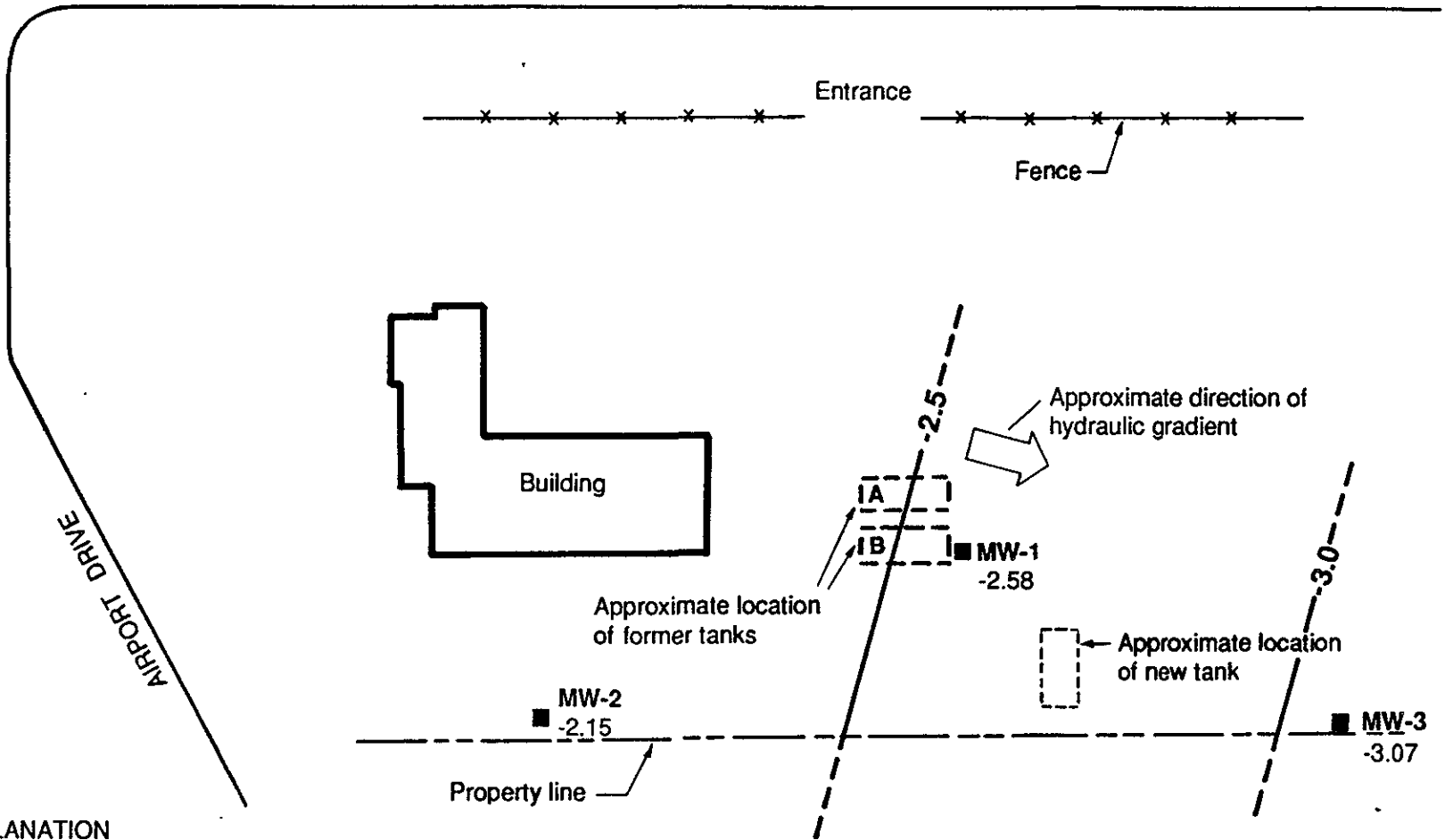
**POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER**  
September 26, 1990  
Avis Rent A Car System, Inc. Facility  
Oakland International Airport  
Oakland, California

McCulley, Frick,  
& Gilman, Inc.

Project No.  
90-2143

Figure  
4

NEIL ARMSTRONG WAY

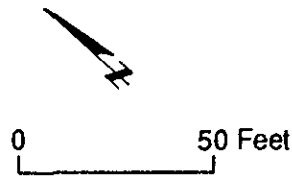


EXPLANATION

MW-1 ■ Location of monitoring well with elevation of potentiometric surface on December 17, 1990 (ft. NGVD) -2.58

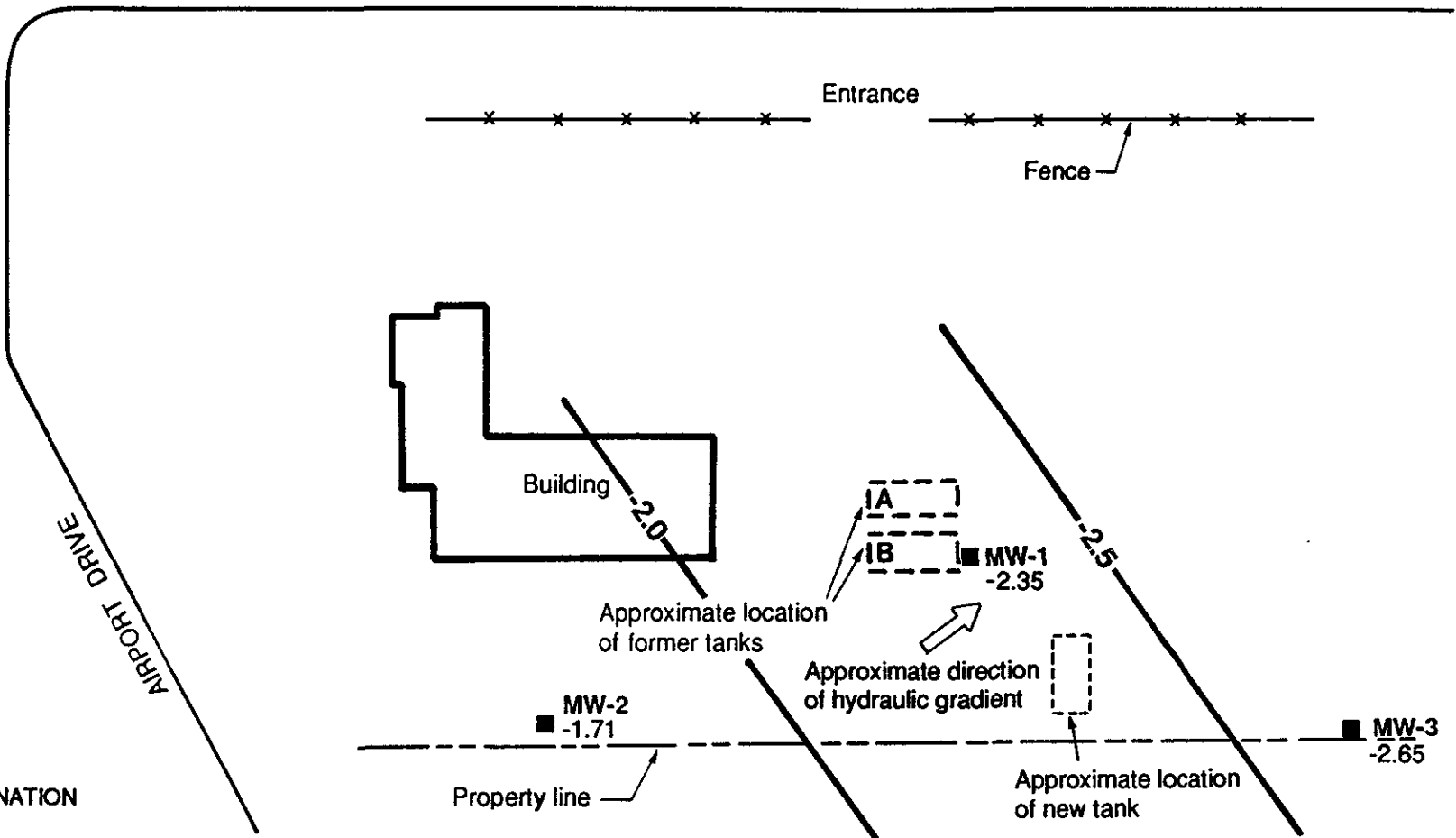
— — Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989



|   |                     |          |
|---|---------------------|----------|
| <b>POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER<br/>DECEMBER 17, 1990<br/>Avis Rent a Car System, Inc. Facility<br/>Oakland International Airport<br/>Oakland, California</b> |                     |          |
| McCulley, Frick & Gilman, Inc.  | Project No. 90-2143 | Figure 5 |

NEIL ARMSTRONG WAY



**EXPLANATION**

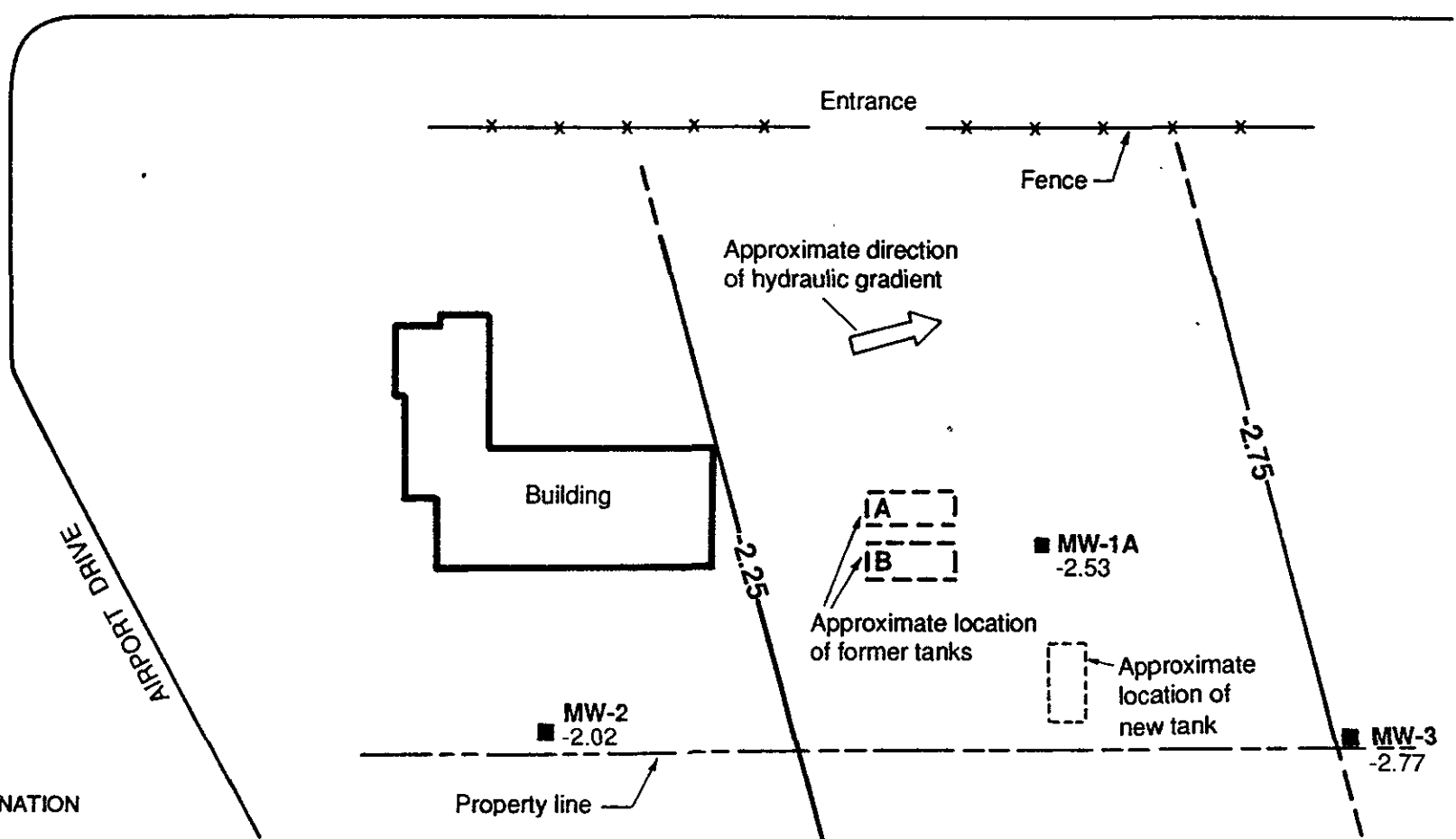
**MW-1** ■ Location of monitoring well with elevation of potentiometric surface on February 26, 1991 (ft. NGVD) -2.35

— Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989

|   |                        |             |
|---|------------------------|-------------|
| <b>POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER<br/>         FEBRUARY 26, 1991<br/>         Avis Rent A Car System, Inc. Facility<br/>         Oakland International Airport<br/>         Oakland, California</b> |                        |             |
| McCulley, Frick<br>& Gilman, Inc.   | Project No.<br>90-2143 | Figure<br>6 |

NEIL ARMSTRONG WAY

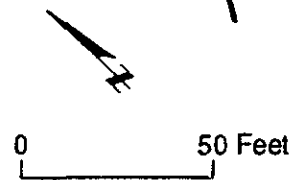


EXPLANATION

MW-2 ■ Location of monitoring well with elevation of potentiometric surface -2.02

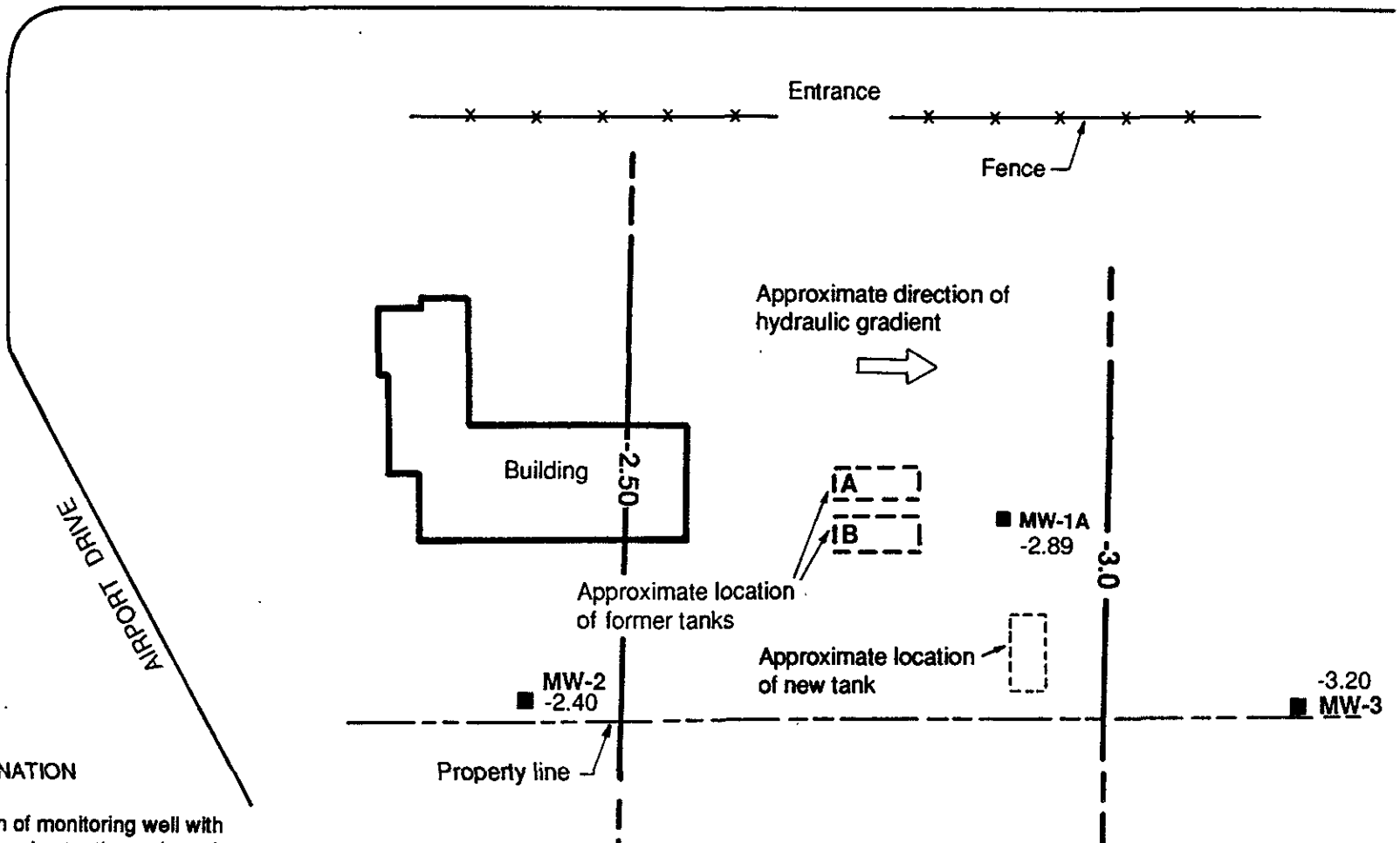
— Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989



|   |                            |                 |
|---|----------------------------|-----------------|
| <p>POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER<br/>                 JULY 17, 1991<br/>                 Avis Rent A Car System, Inc. Facility<br/>                 Oakland International Airport<br/>                 Oakland, California</p> |                            |                 |
| <p>McCulley, Frick &amp; Gilman, Inc.</p>   | <p>Project No. 90-2143</p> | <p>Figure 7</p> |

NEIL ARMSTRONG WAY



EXPLANATION

MW-2 ■ Location of monitoring well with elevation of potentiometric surface

— Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989

0 50 Feet

POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER  
OCTOBER 18, 1991  
Avis Rent A Car System, Inc. Facility  
Oakland International Airport  
Oakland, California

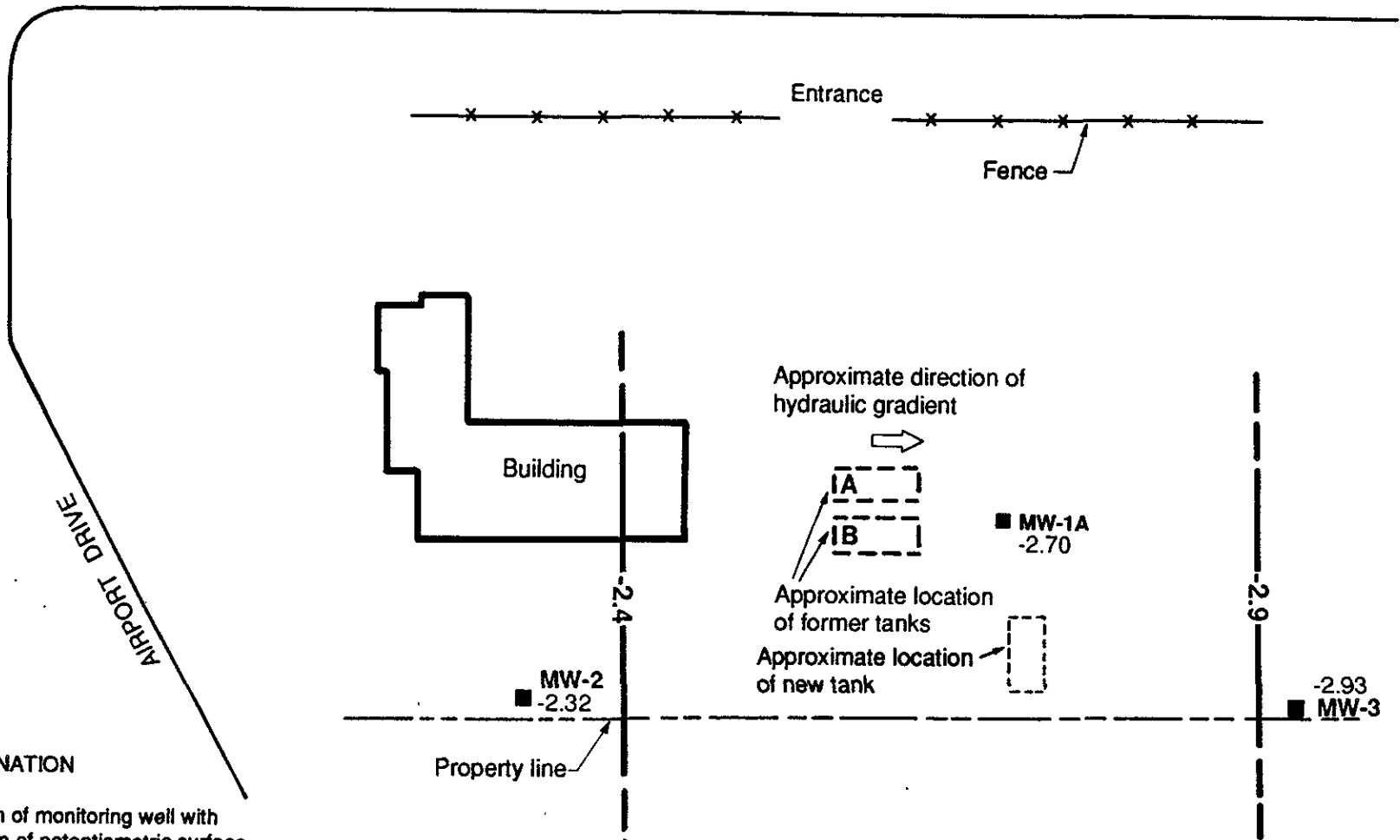
McCulley, Frick & Gilman, Inc.

Project No. 90-2143

Figure 8



NEIL ARMSTRONG WAY



**EXPLANATION**

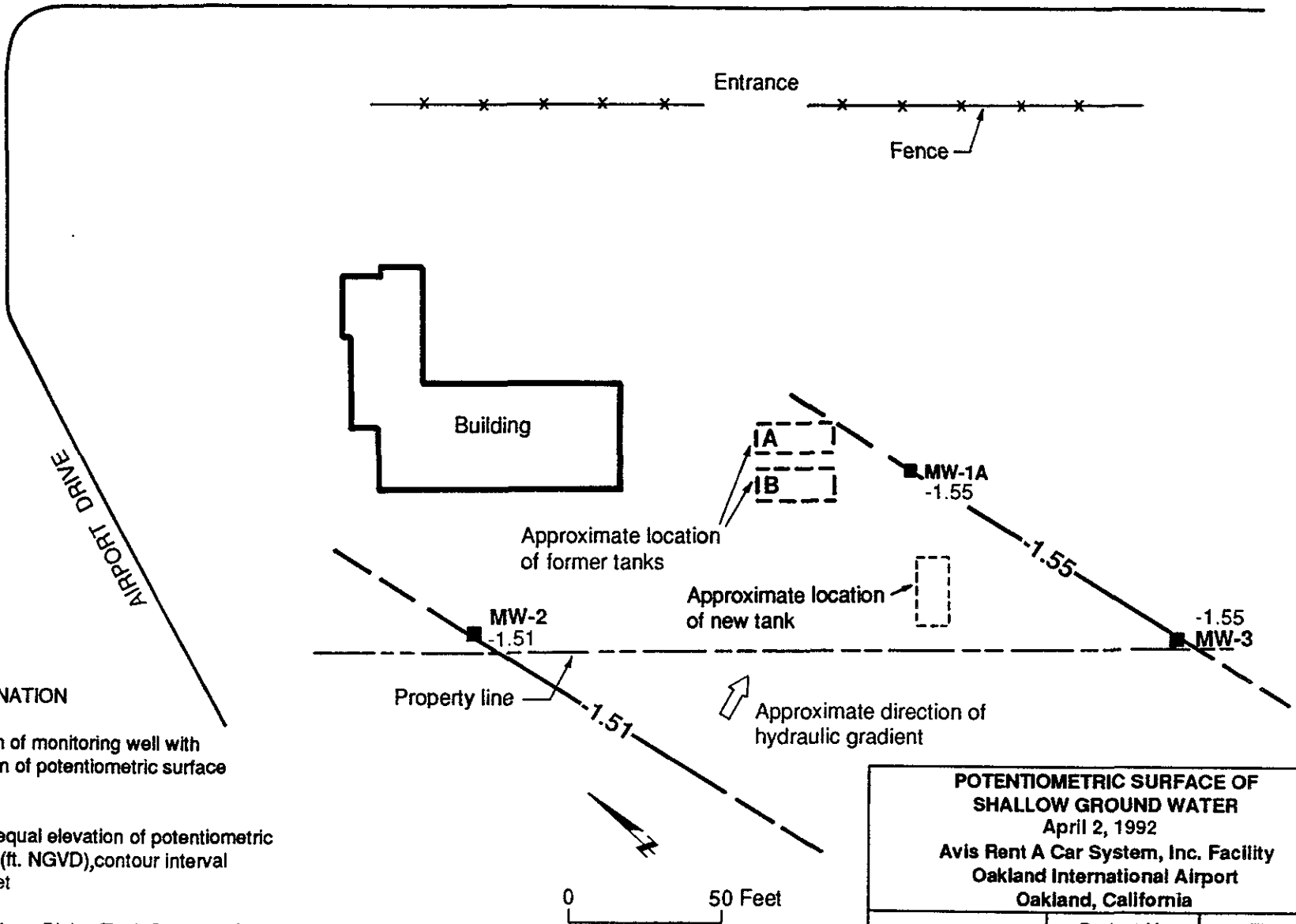
**MW-2** ■ Location of monitoring well with elevation of potentiometric surface -2.32

— Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989

|  |                     |          |
|--|---------------------|----------|
| <b>POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER</b><br>January 3, 1992<br><b>Avis Rent A Car System, Inc. Facility</b><br><b>Oakland International Airport</b><br><b>Oakland, California</b> |                     |          |
| McCuley, Frick & Gilman, Inc.  | Project No. 90-2143 | Figure 9 |

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EXPLANATION

MW-2 ■ Location of monitoring well with elevation of potentiometric surface -1.51

— Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.04 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989

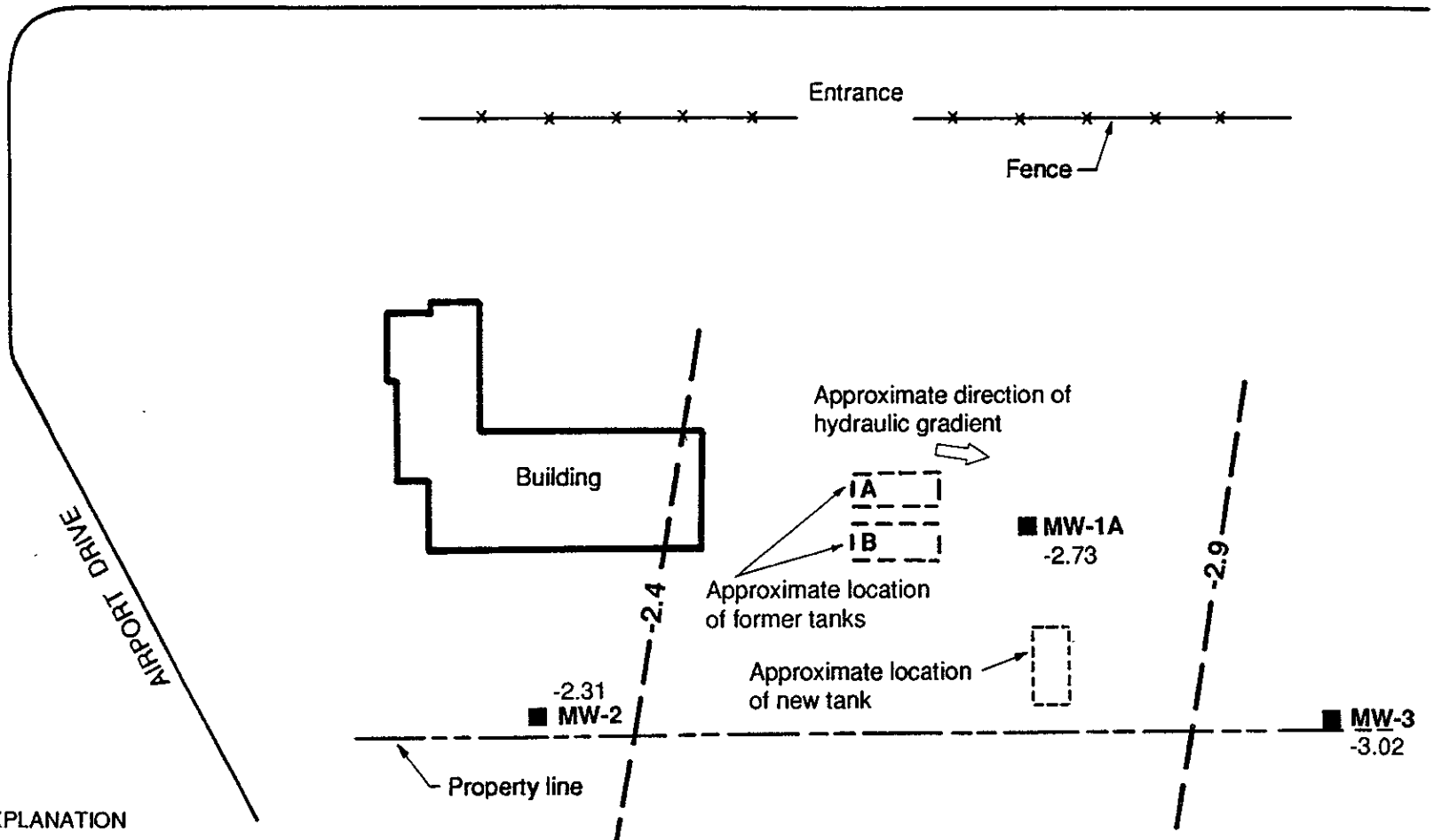
POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER  
April 2, 1992  
Avis Rent A Car System, Inc. Facility  
Oakland International Airport  
Oakland, California

McCulley, Frick & Gilman, Inc.

Project No. 90-2143

Figure 10

NEIL ARMSTRONG WAY



**EXPLANATION**

**MW-2** ■ Location of monitoring well with elevation of potentiometric surface -2.31

--- Line of equal elevation of potentiometric surface (ft. NGVD), contour interval 0.5 feet

Source: Adapted from Blaine Tech Services, Inc. Sampling Report 890825M1, dated August 25, 1989

**POTENTIOMETRIC SURFACE OF SHALLOW GROUND WATER**  
July 28, 1992  
Avis Rent A Car System, Inc. Facility  
Oakland International Airport  
Oakland, California

McCulley, Frick & Gilman, Inc.

Project No. 90-2143

Figure 11

**APPENDIX A**

**Laboratory Report and Chain-of-Custody Record  
for  
Ground Water Samples**



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

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AUG 20 1992

McCULLY, FRICK  
& GILMAN, INC.

McCulley, Frick, & Gilman  
5 Third Street, Suite 400  
San Francisco, CA 94103  
Attention: Ed Conti

Client Project ID: 90-2143  
Sample Matrix: Water  
Analysis Method: EPA 5030/8015/8020  
First Sample #: 207-4683 ✓

Sampled: Jul 28, 1992  
Received: Jul 28, 1992  
Reported: Aug 12, 1992

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

| Analyte                | Reporting Limit<br>µg/L | Sample I.D.<br>207-4683<br>MW - 1A | Sample I.D.<br>207-4684<br>MW - 2 | Sample I.D.<br>207-4685<br>MW - 3 | Sample I.D.<br>GBLK073092<br>Method Blank | Sample I.D.<br>GBLK073192<br>Method Blank |
|------------------------|-------------------------|------------------------------------|-----------------------------------|-----------------------------------|---|---|
| Purgeable Hydrocarbons | 50                      | N.D.                               | N.D.                              | N.D.                              | N.D.                                      | N.D.                                      |
| Benzene                | 0.50                    | N.D.                               | N.D.                              | N.D.                              | N.D.                                      | N.D.                                      |
| Toluene                | 0.50                    | N.D.                               | N.D.                              | N.D.                              | N.D.                                      | N.D.                                      |
| Ethyl Benzene          | 0.50                    | N.D.                               | N.D.                              | N.D.                              | N.D.                                      | N.D.                                      |
| Total Xylenes          | 0.50                    | N.D.                               | N.D.                              | N.D.                              | N.D.                                      | N.D.                                      |
| Chromatogram Pattern:  |                         | --                                 | --                                | --                                | --  | --  |

### Quality Control Data

|   |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| Report Limit Multiplication Factor:             | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| Date Analyzed:                                  | 7/31/92 | 7/30/92 | 7/31/92 | 7/30/92 | 7/31/92 |
| Instrument Identification:                      | GCHP 2  | GCHP 2  | GCHP 2  | GCHP 2  | GCHP 2  |
| Surrogate Recovery, %:<br>(QC Limits = 70-130%) | 103     | 100     | 102     | 99      | 99      |

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

*Andrea J. Fulcher*  
Andrea Fulcher  
Project Manager

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McCulley, Frick, & Gilman  
5 Third Street, Suite 400  
San Francisco, CA 94103  
Attention: Ed Conti

Client Project ID: 90-2143  
Sample Descript: Water, MW - 1A  
Analysis Method: EPA 8310  
Instrument ID: GCW 1  
Lab Number: 207-4683

Sampled: Jul 28, 1992  
Received: Jul 28, 1992  
Extracted: Aug 4, 1992  
Analyzed: Aug 10, 1992  
Reported: Aug 12, 1992

## POLYNUCLEAR AROMATIC HYDROCARBONS by HPLC (EPA 8310)

| Analyte                       | Detection Limit<br>µg/L | Sample Results<br>µg/L |
|-------------------------------|-------------------------|------------------------|
| Acenaphthylene.....           | 10                      | N.D.                   |
| Indeno (1,2,3,cd) pyrene..... | 0.50                    | N.D.                   |
| Naphthalene.....              | 5.0                     | N.D.                   |
| Acenaphthene.....             | 2.0                     | N.D.                   |
| Fluorene.....                 | 5.0                     | N.D.                   |
| Phenanthrene.....             | 0.10                    | N.D.                   |
| Anthracene.....               | 2.5                     | N.D.                   |
| Fluoranthene.....             | 2.0                     | N.D.                   |
| Pyrene.....                   | 0.050                   | N.D.                   |
| Benzo (a) anthracene.....     | 0.010                   | N.D.                   |
| Chrysene.....                 | 0.10                    | N.D.                   |
| Benzo (b) fluoranthene.....   | 0.10                    | N.D.                   |
| Benzo (k) fluoranthene.....   | 0.025                   | N.D.                   |
| Benzo (a) pyrene.....         | 0.010                   | N.D.                   |
| Dibenzo (a,h) anthracene..... | 0.010                   | N.D.                   |
| Benzo (g,h,i) perylene.....   | 0.10                    | N.D.                   |
| 2-methylnaphthalene.....      | 2.5                     | N.D.                   |

Analytes reported as N.D. were not present above the stated limit of detection.

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Andrea Fulcher  
Project Manager



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McCulley, Frick, & Gilman  
5 Third Street, Suite 400  
San Francisco, CA 94103  
Attention: Ed Conti

Client Project ID: 90-2143  
Sample Descript: Water, Method Blank  
Analysis Method: EPA 8310  
Instrument ID: GCW 1  
Lab Number: BLK080492

Sampled: Jul 28, 1992  
Received: Jul 28, 1992  
Extracted: Aug 4, 1992  
Analyzed: Aug 10, 1992  
Reported: Aug 12, 1992

## POLYNUCLEAR AROMATIC HYDROCARBONS by HPLC (EPA 8310)

| Analyte                       | Detection Limit<br>µg/L | Sample Results<br>µg/L |
|-------------------------------|-------------------------|------------------------|
| Acenaphthylene.....           | 10                      | N.D.                   |
| Indeno (1,2,3,cd) pyrene..... | 0.50                    | N.D.                   |
| Naphthalene.....              | 5.0                     | N.D.                   |
| Acenaphthene.....             | 2.0                     | N.D.                   |
| Fluorene.....                 | 5.0                     | N.D.                   |
| Phenanthrene.....             | 0.10                    | N.D.                   |
| Anthracene.....               | 2.5                     | N.D.                   |
| Fluoranthene.....             | 2.0                     | N.D.                   |
| Pyrene.....                   | 0.050                   | N.D.                   |
| Benzo (a) anthracene.....     | 0.010                   | N.D.                   |
| Chrysene.....                 | 0.10                    | N.D.                   |
| Benzo (b) fluoranthene.....   | 0.10                    | N.D.                   |
| Benzo (k) fluoranthene.....   | 0.025                   | N.D.                   |
| Benzo (a) pyrene.....         | 0.010                   | N.D.                   |
| Dibenzo (a,h) anthracene..... | 0.010                   | N.D.                   |
| Benzo (g,h,i) perylene.....   | 0.10                    | N.D.                   |
| 2-methylnaphthalene.....      | 2.5                     | N.D.                   |

Analytes reported as N.D. were not present above the stated limit of detection.

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Andrea Fulcher  
Project Manager



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& GILMAN, INC.

McCulley, Frick, & Gilman  
5 Third Street, Suite 400  
San Francisco, CA 94103  
Attention: Ed Conti

Client Project ID: 90-2143

QC Sample Group: 207-4684

Reported: Aug 12, 1992

## QUALITY CONTROL DATA REPORT

| ANALYTE                            | Benzene      | Toluene      | Ethyl-Benzene | Xylenes      |
|------------------------------------|--------------|--------------|---------------|--------------|
| Method:                            | EPA 8020     | EPA 8020     | EPA 8020      | EPA 8020     |
| Analyst:                           | M. Nipp      | M. Nipp      | M. Nipp       | M. Nipp      |
| Reporting Units:                   | µg/L         | µg/L         | µg/L          | µg/L         |
| Date Analyzed:                     | Jul 30, 1992 | Jul 30, 1992 | Jul 30, 1992  | Jul 30, 1992 |
| QC Sample #:                       | GBLK073092   | GBLK073092   | GBLK073092    | GBLK073092   |
| Instr. ID:                         | GCHP 2       | GCHP 2       | GCHP 2        | GCHP 2       |
| Sample Conc.:                      | N.D.         | N.D.         | N.D.          | N.D.         |
| Spike Conc. Added:                 | 10           | 10           | 10            | 30           |
| Conc. Matrix Spike:                | 10           | 10           | 10            | 30           |
| Matrix Spike % Recovery:           | 100          | 100          | 100           | 100          |
| Conc. Matrix Spike Dup.:           | 11           | 11           | 11            | 32           |
| Matrix Spike Duplicate % Recovery: | 110          | 110          | 110           | 107          |
| Relative % Difference:             | 9.5          | 9.5          | 9.5           | 6.5          |

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Andrea Fulcher  
Project Manager

|                        |  |
|------------------------|--|
| % Recovery:            | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$                            |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

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|  |                            |                              |                        |
|--|----------------------------|------------------------------|------------------------|
| McCulley, Frick, & Gilman<br>5 Third Street, Suite 400<br>San Francisco, CA 94103<br>Attention: Ed Conti | Client Project ID: 90-2143 | QC Sample Group: 2074683, 85 | Reported: Aug 12, 1992 |
|--|----------------------------|------------------------------|------------------------|

## QUALITY CONTROL DATA REPORT

| ANALYTE                            | Benzene      | Toluene      | Ethyl-Benzene | Xylenes      |
|------------------------------------|--------------|--------------|---------------|--------------|
| Method:                            | EPA 8020     | EPA 8020     | EPA 8020      | EPA 8020     |
| Analyst:                           | M. Nipp      | M. Nipp      | M. Nipp       | M. Nipp      |
| Reporting Units:                   | µg/L         | µg/L         | µg/L          | µg/L         |
| Date Analyzed:                     | Jul 31, 1992 | Jul 31, 1992 | Jul 31, 1992  | Jul 31, 1992 |
| QC Sample #:                       | GBLK073192   | GBLK073192   | GBLK073192    | GBLK073192   |
| Instr. ID:                         | GCHP 2       | GCHP 2       | GCHP 2        | GCHP 2       |
| Sample Conc.:                      | N.D.         | N.D.         | N.D.          | N.D.         |
| Spike Conc. Added:                 | 10           | 10           | 10            | 30           |
| Conc. Matrix Spike:                | 10           | 10           | 10            | 31           |
| Matrix Spike % Recovery:           | 100          | 100          | 100           | 108          |
| Conc. Matrix Spike Dup.:           | 11           | 11           | 11            | 34           |
| Matrix Spike Duplicate % Recovery: | 110          | 110          | 110           | 113          |
| Relative % Difference:             | 9.5          | 9.5          | 9.5           | 9.2          |

SEQUOIA ANALYTICAL

*Andrea S. Fulcher*  
Andrea Fulcher  
Project Manager

|                        |  |
|------------------------|--|
| % Recovery:            | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$                            |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

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McCulley, Frick, & Gilman  
5 Third Street, Suite 400  
San Francisco, CA 94103  
Attention: Ed Conti

Client Project ID: 90-2143  
Method: EPA 8310  
Instrument ID: GCW1  
QC Sample #: BLK080492

Reported: Aug 12, 1992

## QUALITY CONTROL DATA REPORT: SURROGATE RECOVERIES, EPA 8310

| Surrogate               | Percent Recovery,<br>207-4683 | Percent Recovery,<br>BLK080492 | Percent Recovery,<br>BLK080492<br>MS | Percent Recovery,<br>BLK080492<br>MSD |
|-------------------------|-------------------------------|--------------------------------|--------------------------------------|---------------------------------------|
| Decafluoro-<br>biphenyl | 70                            | 75                             | 80                                   | 80                                    |

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Andrea Fulcher  
Project Manager

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& GILMAN, INC.

McCulley, Frick, & Gilman  
5 Third Street, Suite 400  
San Francisco, CA 94103  
Attention: Ed Conti

Client Project ID: 90-2143

QC Sample Group: 207-4683

Reported: Aug 12, 1992

## QUALITY CONTROL DATA REPORT

| ANALYTE                            | Naphthalene  | Acenaphthene | Pyrene       |
|------------------------------------|--------------|--------------|--------------|
| Method:                            | EPA 8310     | EPA 8310     | EPA 8310     |
| Analyst:                           | L. Haar      | L. Haar      | L. Haar      |
| Reporting Units:                   | µg/L         | µg/L         | µg/L         |
| Date Analyzed:                     | Aug 10, 1992 | Aug 10, 1992 | Aug 10, 1992 |
| QC Sample #:                       | BLK080492    | BLK080492    | BLK080492    |
| Instru. ID:                        | GCW 1        | GCW 1        | GCW 1        |
| Sample Conc.:                      | N.D.         | N.D.         | N.D.         |
| Spike Conc. Added:                 | 7500         | 2500         | 100          |
| Conc. Matrix Spike:                | 5400         | 2200         | 110          |
| Matrix Spike % Recovery:           | 79           | 88           | 110          |
| Conc. Matrix Spike Dup.:           | 5500         | 2400         | 98           |
| Matrix Spike Duplicate % Recovery: | 73           | 96           | 98           |
| Relative % Difference:             | 7.0          | 8.7          | 12           |

SEQUOIA ANALYTICAL

*Andrea L. Fulcher*  
Andrea Fulcher  
Project Manager

|                        |  |
|------------------------|--|
| % Recovery:            | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$                            |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

2074683.MMM <7>

# CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

**McCULLEY, FRICK & GILMAN, INC. RECEIVED**

NO. \_\_\_\_\_

737 29th Street, Suite 202  
Boulder, CO 80303  
TEL: (303) 447-1823  
FAX: (303) 447-1836

5818 Balcones Dr., Suite 202  
Austin, TX 78731  
TEL: (512) 371-1667  
FAX: (512) 454-4126

**AUG 14 1992**

McCULLEY, FRICK  
& GILMAN, INC.

5 Third St., Suite 400  
San Francisco, CA 94103  
TEL: (415) 495-7110  
FAX: (415) 495-7107

PROJECT No.: 90-2143 PROJECT NAME: AVIS - Oakland PAGE: 1 OF: 1  
 SAMPLER (Signature): Miles E. Wait PROJECT MANAGER: Edward Conti DATE: 7/28/92  
 METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO. \_\_\_\_\_ DESTINATION: Sevens Analytical  
 SPECIAL INSTRUCTIONS/HAZARDS: \_\_\_\_\_

| SAMPLES |                       |                   |         |                  |              |                  |                                |      |      | ANALYSIS REQUEST |             |       |     |              |              |              |              |                 |               |          |                |      |   |      |                              |
|---------|-----------------------|-------------------|---------|------------------|--------------|------------------|--------------------------------|------|------|------------------|-------------|-------|-----|--------------|--------------|--------------|--------------|-----------------|---------------|----------|----------------|------|---|------|------------------------------|
| Lab No. | Sample Identification | Sample Collection |         | Matrix*          | Preservation |                  |                                |      |      |                  | Containers* |       |     | Methods      |              |              |              |                 |               | Handling |                |      | REMARKS<br>(Special handling procedures, specific analytical methods, observations, etc.) |      |                              |
|         |                       | DATE              | TIME    |                  | HCL          | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | COLD | NONE | OTHER            | VOL. (ml)   | TYPE* | No. | EPA 601/6010 | EPA 602/6020 | EPA 624/6240 | EPA 625/6270 | TPH as Gasoline | TPH as Diesel | BTEX     | EPA 8310 (PMT) | HOLD |   | RUSH | STANDARD                     |
| 20      | 74683                 | MW-1A             | 7/23/92 | 14 <sup>05</sup> | AQ           |                  |                                |      | X    |                  |             | 1000  | G   | 2            |              |              |              |                 |               |          | X              |      |   | X    | * Make sure EPA              |
|         |                       | MW-1A             | 7/28/92 | 14 <sup>05</sup> | AQ           | X                |                                |      | X    |                  |             | 40    | G   | 2            |              |              |              | X               | X             |          |                |      |   | X    | 8310 include the             |
|         | 84                    | MW-2              | 7/28/92 | 11 <sup>56</sup> | AQ           | X                |                                |      | X    |                  |             | 40    | G   | 2            |              |              |              | X               | X             |          |                |      |   | X    | analyze 2-methyl naphthalene |
|         | 85                    | MW-3              | 7/28/92 | 13 <sup>00</sup> | AQ           | X                |                                |      | X    |                  |             | 40    | G   | 2            |              |              |              | X               | X             |          |                |      |   | X    | Reporting limit must         |
|         | 86                    | Travel blank      |         |                  | AQ           | X                |                                |      | X    |                  |             | 40    | G   | 2            |              |              |              | X               | X             |          |                |      |   | X    | be 5.0 ug/L or less          |

TOTAL NUMBER OF CONTAINERS

10

LABORATORY COMMENTS/ CONDITION OF SAMPLES

| RELINQUISHED BY:     |                     |              |  | DATE           | TIME        | RECEIVED BY:        |                     |              |
|----------------------|---------------------|--------------|--|----------------|-------------|---------------------|---------------------|--------------|
| SIGNATURE            | PRINTED NAME        | COMPANY      |  |                |             | SIGNATURE           | PRINTED NAME        | COMPANY      |
| <u>Miles E. Wait</u> | <u>Miles Wait</u>   | <u>MFC</u>   |  | <u>7/28/92</u> | <u>1615</u> | <u>Edward Conti</u> | <u>EDWARD CONTI</u> | <u>PRIME</u> |
| <u>Edward Conti</u>  | <u>EDWARD CONTI</u> | <u>PRIME</u> |  | <u>7/28/92</u> | <u>1745</u> | <u>Miles Wait</u>   | <u>MILES WAIT</u>   | <u>PRIME</u> |

\*KEY: Matrix AQ-aqueous NA-nonaqueous SO-soil SL-sludge P-petroleum A-air OT-other Containers P-plastic G-glass T-tylon B-brass OT-other

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