

ENVIRONMENTAL AUDIT, INC.

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

714/632-8521 • FAX: 714/632-6754

January 8, 1996

Project No. 1233

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services
Department of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

Quarantined MTBE

RE: FOURTH QUARTER 1995 GROUND WATER MONITORING REPORT
Montgomery Ward Auto Service Center
7575 Dublin Boulevard, Dublin, California

Dear Ms. Chu:

Enclosed herewith are two copies of our report entitled, "Ground Water Monitoring Report, Fourth Quarter 1995, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California," dated January 8, 1996.

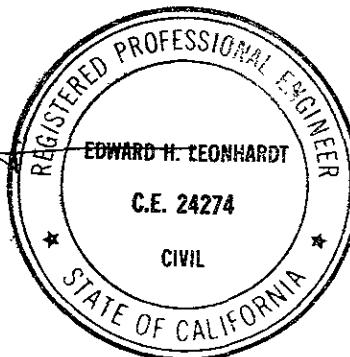
Please call the undersigned if you have any questions or need additional information.

Sincerely,

ENVIRONMENTAL AUDIT, INC.

John R. Cimbricz
Environmental Specialist

Edward H. Leonhardt, R.C.E.
Manager, Civil Engineering



JRC:EHL:SAB

enclosure

cc: E. Koberstein, Montgomery Ward (w/enclosure)
G. Jonas, Montgomery Ward (w/enclosure)
M. Gilmartin, Straw & Gilmartin (w/enclosure)
R. Enea, Enea Properties (w/enclosure)

QUARTERLY GROUND WATER MONITORING REPORT

**Fourth Quarter 1995
Montgomery Ward Auto Service Center
7575 Dublin Boulevard
Dublin, California**

January 8, 1996

Project No. 1233

Prepared for:

**Montgomery Ward & Co. Incorporated
39201 Fremont Boulevard
Fremont, CA 94538**

ENVIRONMENTAL AUDIT, INC. ®

Planning, Environmental Analyses and Hazardous
Substances Management and Remediation
1000-A ORTEGA WAY
PLACENTIA, CA 92670-7125
714/632-8521

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JRC:WORD.1233M95D

1.0 INTRODUCTION

This document constitutes the fourth quarter 1995 ground water monitoring report for the Montgomery Ward Auto Service Center property located at 7575 Dublin Boulevard, Dublin, California (see Figure 1). The quarterly ground water monitoring activities are conducted during the first month of each calendar quarter, i.e., in January, April, July, and October.

A ground water extraction and treatment system (System) is operated at the site. Ground water is being extracted from well B-12 (see Figure 2). All other wells associated with the site function as monitoring wells at this time. Wells MW-100, MW-101 and MW-102 were installed in May 1993, pursuant to a request by the Alameda County Department of Environmental Health (County), and were subsequently included in the quarterly ground water monitoring.

As requested by the County, ground water monitoring wells MW-1 through MW-4 at the Enea Properties site (Enea Properties), located immediately south of the intersection of Amador Plaza Road and Dublin Boulevard, were gauged and sampled as part of the quarterly monitoring activities. Wells PZ-1 and EW-1 associated with the Enea Properties were not sampled since these wells are located within ten feet of monitoring well MW-1.

2.0 FIELD INVESTIGATION

2.1 GROUND WATER ELEVATION SURVEY

On October 19, 1995, Environmental Audit, Inc. obtained ground water depth measurements from the wells associated with the site and the Enea Properties using an Oil Recovery System interface probe accurate to 0.01 feet. Water depth measurements were not taken from well MW-102 because the well was inaccessible due to street construction. No free-product was detected in the wells during gauging activities. The measured water levels were converted to elevations relative to mean sea level (MSL) datum by subtracting the measured water level for each well from the ground level datum (see Table 1). Ground water elevation data obtained from the wells were used to construct a ground water elevation map (see Figure 2).

2.2 GROUND WATER AND EFFLUENT SAMPLING

On October 19 and 20, 1995, ground water samples were obtained from the wells for analytical testing. Samples were not taken from well MW-102 because the well was inaccessible due to street construction. Prior to sampling, all wells except extraction well B-12 were purged using a Whale Supersub 921 submersible pump. Purging activities continued until the temperature, conductivity and pH of the extracted water had stabilized (see Appendix A).

Purging of well B-12 prior to sampling was unnecessary since the System was active during sampling of this well. All wells were sampled in the order that purging activities were completed. Well B-12 was sampled before all other wells were sampled. The water samples were collected from just below the water surface using Voss Technologies disposable bottom bailers equipped with volatile organic compound samplers. Use of these bailers precludes the potential for cross-contamination. A treated effluent sample was obtained from the sampling port located downstream of the two 180-pound carbon treatment units. The water samples were sealed in a one-liter plastic bottle and two 40-milliliter (ml) Volatile Organic Analysis vials with Teflon septa lined lids. The containers were completely filled so that no head space existed

between the samples and the lids. The samples were labeled with the sample point identification, date, time and EAI project number, and immediately placed into an ice chest, chilled using ice. The samples were chilled until delivered to the laboratory for analytical testing. All samples were logged on chain of custody record forms (see Appendix B).

2.3 SAMPLING EQUIPMENT CLEANING PROTOCOL

The submersible pump and hose (Equipment) used to purge the wells prior to sampling was decontaminated between each purging activity using the following procedure: 1) the Equipment was flushed in a solution of Alconox detergent and tap water; and 2) the Equipment was flushed with tap water.

2.4 EFFLUENT HANDLING

All effluent generated during purging, sampling and equipment decontamination activities was temporarily stored in seven 55-gallon drums which were then emptied into the System for treatment and subsequent discharge into the sanitary sewerage system.

3.0 ANALYTICAL TESTING

All samples were delivered for analytical testing to BC Analytical, a state certified hazardous waste testing laboratory (Certificate No. 1353) located in Concord, California. The samples were tested for total petroleum hydrocarbons as gasoline (TPH-G) using modified EPA Method 8015, benzene, toluene, xylenes and ethylbenzene (BTXE) using EPA Method 8020, and total lead using EPA Method 7420. The results of the testing are shown in Table 2 along with the results from previous testing period. The laboratory reports are contained in Appendix C.

4.0 SYSTEM OPERATION/MAINTENANCE

During the July 28, 1995 through October 20, 1995 period, the ground water treatment system was inspected and routine maintenance of the system was undertaken once every two weeks or more often if required.

On October 20, 1995, the ground water extraction and treatment system was shut-down. A Regenesis oxygen releasing compound was installed in wells B-5 and B-12. B-5 is a two-inch diameter well, and B-12 is the 12-inch extraction well. Prior to installation of the ORC, in-situ dissolved oxygen measurements were obtained from the wells associated with the site as part of the quarterly ground water monitoring activities conducted on October 19 and 20, 1995.

Table 3 presents the effluent flowmeter reading for the period from April 15, 1994 through October 20, 1995. Approximately 429,940 gallons of treated ground water were discharged into the Dublin-San Ramon Water Services District sanitary sewerage system during the July 28, 1995 through October 20, 1995 period. This discharge volume computes into an average ground water extraction rate during the July 28, 1995 through October 20, 1995 period of approximately 3.55 gallons per minute.

During the July 28, 1995 through October 20, 1995 period, approximately 5.01 pounds of TPH-G and 0.05 pounds of benzene extracted and treated by the ground water remediation system.

5.0 LIMITATION

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

JRC:EHL:SAB

JRC WORD 1233M95D

TABLES

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 1 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|---------------|--|---|---------------------------|-------------------|-----------------------------------|
| B-5 | | | | | |
| | 340.05 | | | | |
| 04/16/92 | | 10.62 | - | 0.00 | 329.43 |
| 07/24/92 | | 11.91 | - | 0.00 | 328.14 |
| 10/22/92 | | 12.97 | - | 0.00 | 327.08 |
| 01/15/93 | | 12.97 | - | 0.00 | 327.08 |
| 04/15/93 | | 09.75 | - | 0.00 | 330.30 |
| 05/14/93 | | 10.07 | - | 0.00 | 329.98 |
| 07/14/93 | | 10.80 | - | 0.00 | 329.25 |
| 10/14/93 | | 12.08 | - | 0.00 | 327.97 |
| 01/13/94 | | 12.23 | - | 0.00 | 327.82 |
| 04/04/94 | | 11.30 | - | 0.00 | 328.75 |
| 07/05/94 | | 12.37 | - | 0.00 | 327.68 |
| 10/04/94 | | 13.04 | - | 0.00 | 327.01 |
| 01/18/95 | | 10.43 | - | 0.00 | 329.62 |
| 04/20/95 | | 09.70 | - | 0.00 | 330.35 |
| 07/27/95 | | 10.85 | - | 0.00 | 329.20 |
| 10/19/95 | | 12.08 | - | 0.00 | 327.97 |
| B-10 | | | | | |
| | 339.70 | | | | |
| 04/16/92 | | | - | 0.00 | 329.38 |
| 07/24/92 | | 11.69 | - | 0.00 | 328.01 |
| 10/22/92 | | 12.67 | - | 0.00 | 327.03 |
| 01/15/93 | | 09.48 | - | 0.00 | 330.22 |
| 04/15/93 | | 09.49 | - | 0.00 | 330.21 |
| 05/14/93 | | 09.87 | - | 0.00 | 329.83 |
| 07/14/93 | | 10.64 | - | 0.00 | 329.06 |
| 10/14/93 | | 11.80 | - | 0.00 | 327.90 |
| 01/13/94 | | 11.94 | - | 0.00 | 327.76 |
| 04/04/94 | | 11.00 | - | 0.00 | 328.70 |
| 07/05/94 | | 12.08 | - | 0.00 | 327.62 |
| 10/04/94 | | 12.69 | - | 0.00 | 327.01 |
| 01/18/95 | | 09.89 | - | 0.00 | 329.81 |
| 04/20/95 | | 09.40 | - | 0.00 | 330.30 |
| 07/27/95 | | 10.55 | - | 0.00 | 329.15 |
| 10/19/95 | | 11.76 | - | 0.00 | 327.94 |
| B-12 | | | | | |
| | 339.10 | | | | |
| 04/16/92 | | 09.95 | - | 0.00 | 329.15 |
| 07/24/92 | | 11.57 | - | 0.00 | 327.53 |
| 10/22/92 | | 12.82 | - | 0.00 | 326.28 |
| 01/15/93 | | 08.66 | - | 0.00 | 330.44 |
| 04/15/93 | | 08.70 | - | 0.00 | 330.40 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 2 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|---------------|--|---|---------------------------|-------------------|-----------------------------------|
| 05/14/93 | | 09.32 | - | 0.00 | 329.78 |
| 07/14/93 | | 09.95 | - | 0.00 | 329.15 |
| 10/14/93 | | 10.94 | - | 0.00 | 328.16 |
| 01/13/94 | | 11.28 | - | 0.00 | 327.82 |
| 04/04/94 | | 10.32 | - | 0.00 | 328.78 |
| 07/05/94 | | 19.25 | - | 0.00 | 319.85 |
| 10/04/94 | | 19.27 | - | 0.00 | 319.83 |
| 01/18/95 | | 10.99 | - | 0.00 | 328.11 |
| 04/20/95 | | 08.60 | - | 0.00 | 330.50 |
| 07/27/95 | | 14.62 | - | 0.00 | 324.48 |
| 10/19/95 | | 20.43 | - | 0.00 | 318.67 |
| B-15 | | | | | |
| | 340.62 | | | | |
| 04/16/92 | | 11.09 | - | 0.00 | 329.53 |
| 07/24/92 | | 12.33 | - | 0.00 | 328.29 |
| 10/22/92 | | 13.25 | - | 0.00 | 327.37 |
| 01/15/93 | | 10.22 | - | 0.00 | 330.40 |
| 04/15/93 | | 10.26 | - | 0.00 | 330.36 |
| 05/14/93 | | 10.64 | - | 0.00 | 329.98 |
| 07/14/93 | | 11.35 | - | 0.00 | 329.27 |
| 10/14/93 | | 12.41 | - | 0.00 | 328.21 |
| 01/13/94 | | 12.59 | - | 0.00 | 328.03 |
| 04/04/94 | | 11.74 | - | 0.00 | 328.88 |
| 07/05/94 | | 12.86 | - | 0.00 | 327.76 |
| 10/04/94 | | 13.35 | - | 0.00 | 327.27 |
| 01/18/95 | | 10.71 | - | 0.00 | 329.91 |
| 04/20/95 | | 10.15 | - | 0.00 | 330.47 |
| 07/27/95 | | 11.30 | - | 0.00 | 329.32 |
| 10/19/95 | | 12.47 | - | 0.00 | 328.15 |
| B-16 | | | | | |
| | 339.82 | | | | |
| 04/16/92 | | 10.63 | - | 0.00 | 329.19 |
| 07/24/92 | | 11.90 | - | 0.00 | 327.92 |
| 10/22/92 | | 12.88 | - | 0.00 | 326.94 |
| 01/15/93 | | 09.79 | - | 0.00 | 330.03 |
| 04/15/93 | | 09.83 | - | 0.00 | 329.99 |
| 05/14/93 | | 10.20 | - | 0.00 | 329.62 |
| 07/14/93 | | 10.92 | - | 0.00 | 328.90 |
| 10/14/93 | | 11.99 | - | 0.00 | 327.83 |
| 01/13/94 | | 12.16 | - | 0.00 | 327.66 |
| 04/04/94 | | 11.28 | - | 0.00 | 328.54 |
| 07/05/94 | | 12.28 | - | 0.00 | 327.54 |
| 10/04/94 | | 12.89 | - | 0.00 | 326.93 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 3 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|---------------|--|---|---------------------------|-------------------|-----------------------------------|
| 01/18/95 | | 10.21 | - | 0.00 | 329.61 |
| 04/20/95 | | 09.79 | - | 0.00 | 330.03 |
| 07/27/95 | | 10.85 | - | 0.00 | 328.97 |
| 10/19/95 | | 11.97 | - | 0.00 | 327.85 |
| MW-100 | | | | | |
| | 339.61 | | | | |
| 05/14/93 | | 10.34 | - | 0.00 | 329.27 |
| 07/14/93 | | 11.00 | - | 0.00 | 328.61 |
| 10/14/93 | | 12.12 | - | 0.00 | 327.49 |
| 01/13/94 | | 12.25 | - | 0.00 | 327.36 |
| 04/04/94 | | 11.36 | - | 0.00 | 328.25 |
| 07/05/94 | | 12.22 | - | 0.00 | 327.39 |
| 10/04/94 | | 12.88 | - | 0.00 | 326.73 |
| 01/18/95 | | 10.27 | - | 0.00 | 329.34 |
| 04/20/95 | | 10.00 | - | 0.00 | 329.61 |
| 07/27/95 | | 10.91 | - | 0.00 | 328.70 |
| 10/19/95 | | 11.95 | - | 0.00 | 327.66 |
| MW-101 | | | | | |
| | 338.54 | | | | |
| 05/14/93 | | 09.91 | - | 0.00 | 328.63 |
| 07/14/93 | | 10.38 | - | 0.00 | 328.16 |
| 10/14/93 | | 11.30 | - | 0.00 | 327.24 |
| 01/13/94 | | 11.21 | - | 0.00 | 327.33 |
| 04/04/94 | | 10.69 | - | 0.00 | 327.85 |
| 07/05/94 | | 11.39 | - | 0.00 | 327.15 |
| 10/04/94 | | 11.98 | - | 0.00 | 326.56 |
| 01/18/95 | | 09.84 | - | 0.00 | 328.70 |
| 04/20/95 | | 09.61 | - | 0.00 | 328.93 |
| 07/27/95 | | 10.27 | - | 0.00 | 328.27 |
| 10/19/95 | | 11.14 | - | 0.00 | 327.40 |
| MW-102 | | | | | |
| | 339.23 | | | | |
| 05/14/93 | | 09.60 | - | 0.00 | 329.63 |
| 07/14/93 | | 10.31 | - | 0.00 | 328.92 |
| 10/14/93 | | 11.57 | - | 0.00 | 327.66 |
| 01/13/94 | | 11.71 | - | 0.00 | 327.52 |
| 04/04/94 | | 10.83 | - | 0.00 | 328.40 |
| 07/05/94 | | 11.65 | - | 0.00 | 327.96 |
| 10/04/94 | | 12.36 | - | 0.00 | 326.87 |
| 01/18/95 | | 09.59 | - | 0.00 | 329.64 |
| 04/20/95 | | 09.27 | - | 0.00 | 329.96 |
| 07/27/95 | | 10.22 | - | 0.00 | 329.01 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 4 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|----------------|--|---|---------------------------|-------------------|-----------------------------------|
| 10/19/1995 (1) | | NM | - | 0.00 | NM |
| ENEA MW-1 | 335.84 | | | | |
| 10/14/93 | | 09.05 | - | 0.00 | 326.79 |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.36 | - | 0.00 | 327.48 |
| 07/05/94 | | 09.04 | - | 0.00 | 326.80 |
| 10/04/94 | | 09.66 | - | 0.00 | 326.18 |
| 01/18/95 | | 07.53 | - | 0.00 | 328.31 |
| 04/20/95 | | 07.41 | - | 0.00 | 328.43 |
| 07/27/95 | | 08.03 | - | 0.00 | 327.81 |
| 10/19/95 | | 08.82 | - | 0.00 | 327.02 |
| ENEA MW-2 | 335.61 | | | | |
| 10/14/93 | | 08.90 | - | 0.00 | 326.71 |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.05 | - | 0.00 | 327.56 |
| 07/05/94 | | 08.84 | - | 0.00 | 326.77 |
| 10/04/94 | | 09.59 | - | 0.00 | 326.02 |
| 01/18/95 | | 07.01 | - | 0.00 | 328.60 |
| 04/20/95 | | 06.85 | - | 0.00 | 328.76 |
| 07/27/95 | | 07.65 | - | 0.00 | 327.96 |
| 10/19/95 | | 08.63 | - | 0.00 | 326.98 |
| ENEA MW-3 | 336.93 | | | | |
| 10/14/93 | | 09.89 | - | 0.00 | 327.84 |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 09.19 | - | 0.00 | 327.74 |
| 07/05/94 | | 09.92 | - | 0.00 | 327.01 |
| 10/04/94 | | 10.56 | - | 0.00 | 326.37 |
| 01/18/95 | | 08.26 | - | 0.00 | 328.67 |
| 04/20/95 | | 08.09 | - | 0.00 | 328.84 |
| 07/27/95 | | 08.81 | - | 0.00 | 328.12 |
| 10/19/95 | | 09.68 | - | 0.00 | 327.25 |
| ENEA MW-4 | 335.76 | | | | |
| 10/14/93 | | NI | - | 0.00 | NI |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.55 | - | 0.00 | 327.21 |
| 07/05/94 | | 09.15 | - | 0.00 | 326.61 |
| 10/04/94 | | 09.77 | - | 0.00 | 325.99 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 5 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|--|--|---|---------------------------|-------------------|-----------------------------------|
| 01/18/95 | | 07.79 | - | 0.00 | 327.97 |
| 04/20/95 | | 07.72 | - | 0.00 | 328.04 |
| 07/27/95 | | 08.24 | - | 0.00 | 327.52 |
| 10/19/95 | | 08.95 | - | 0.00 | 326.81 |
| ENEA EW-1 | 336.08 | | | | |
| 10/14/93 | | NI | - | 0.00 | NI |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.62 | - | 0.00 | 327.46 |
| 07/05/94 | | 09.28 | - | 0.00 | 326.80 |
| 10/04/94 | | 09.89 | - | 0.00 | 326.19 |
| 01/18/95 | | 07.76 | - | 0.00 | 328.32 |
| 04/20/95 | | 07.66 | - | 0.00 | 328.42 |
| 07/27/95 | | 08.27 | - | 0.00 | 327.81 |
| 10/19/95 | | 09.05 | - | 0.00 | 327.03 |
| NOTES: | | | | | |
| (1) = Well MW-102 was not measured because the well was inaccessible due to street construction. | | | | | |
| NI | Not installed, NM - Not measured | | | | |
| MSL | Mean Sea Level | | | | |
| bgs | below ground surface | | | | |
| Depth to water is as measured from the cut notch at the top side of each PVC well casing. | | | | | |
| The elevations of all wells were surveyed in October 1993 to City of Dublin Benchmark No. DUB-680 (elevation=331.60 MSL), located along Dublin Boulevard, 0.60 miles easterly from San Ramon Road. | | | | | |
| All depth to water measurements were converted to MSL elevations using well casing elevation datum surveyed on 10/14/93. | | | | | |
| Wells B-5, B-12, B-15, B-16, MW-100, MW-101 and MW-102 are owned by Montgomery Ward and are associated with 7575 Dublin Blvd. | | | | | |
| Wells MW-1, MW-2, MW-3, MW-4 and EW-1 are owned by Enea Properties and are located at Amador Plaza Road and Dublin Boulevard. | | | | | |
| DTP:1233:ELEV.XLS | | | | | |

TABLE 2
ANALYTICAL TESTING RESULTS
Montgomery Ward Auto Service Center
ENEA Properties
Dublin, California
Parts per billion (ppb)

Page 1 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead |
|------------------|--------|---------|---------|--------------|---------|------|
| Well B-5 | | | | | | |
| 04-16-92 | 4400 | 670 | 160 | 280 | 320 | ND |
| 07-24-92 | 31000 | 5400 | 2600 | 2200 | 5800 | ND |
| 10-22-92 | 9100 | 1100 | 190 | 520 | 740 | ND |
| 01-15-93 | 2300 | 530 | 160 | 300 | 470 | 7.9 |
| 04-15-93 | 4900 | 600 | 160 | 470 | 390 | ND |
| 07-14-93 | 8800 | 590 | 210 | 840 | 1100 | 9.9 |
| 10-14-93 | 4500 | 530 | 46 | 490 | 350 | ND |
| 01-13-94 | 120 | 15 | 1.9 | 12 | 11 | ND |
| 04-04-94 | 5700 | 450 | 39 | 350 | 400 | ND |
| 07-05-94 | 2200 | 69 | 13 | 150 | 95 | ND |
| 10-03-94 | 4700 | 190 | 38 | 510 | 570 | ND |
| 01-18-95 | 2200 | 53 | 27 | 120 | 280 | ND |
| 04-21-95 | 5800 | 90 | 74 | 300 | 910 | 4.0 |
| 07-28-95 | 2600 | 57 | 26 | 190 | 570 | 2.5 |
| 10-20-95 | 3400 | 27 | 15 | 210 | 530 | 4.2 |
| Well B-10 | | | | | | |
| 04-16-92 | 7300 | 1400 | 640 | 880 | 1100 | ND |
| 07-24-92 | 27000 | 3800 | 1600 | 2000 | 4000 | ND |
| 10-22-92 | 16000 | 2300 | 340 | 1100 | 1200 | ND |
| 01-15-93 | 10000 | 1400 | 310 | 730 | 1100 | 13 |
| 04-15-93 | 8100 | 580 | 270 | 810 | 580 | 19 |
| 07-14-93 | 6400 | 840 | 120 | 750 | 800 | 7.1 |
| 10-14-93 | 100000 | 720 | 120 | 930 | 1100 | ND |
| 01-13-94 | 18000 | 990 | 180 | 1300 | 2400 | ND |
| 04-04-94 | 12000 | 370 | 96 | 900 | 1800 | ND |
| 07-05-94 | 7800 | 170 | 50 | 550 | 810 | ND |
| 10-03-94 | 6300 | 120 | 33 | 480 | 630 | ND |
| 01-18-95 | 3300 | 38 | 28 | 160 | 450 | 2.9 |
| 04-21-95 | 4200 | 39 | 8.6 | 220 | 310 | ND |
| 07-28-95 | 2900 | 22 | 4.3 | 140 | 330 | 2.0 |
| 10-20-95 | 1900 | 3.9 | 1.5 | 74 | 170 | ND |
| Well B-12 | | | | | | |
| 04-16-92 | 12000 | 1300 | 1100 | 510 | 1200 | ND |
| 07-24-92 | 12000 | 1000 | 630 | 520 | 1000 | ND |
| 10-22-92 | 11000 | 370 | 230 | 400 | 940 | ND |
| 01-15-93 | 120 | 2.8 | ND | 1.6 | 3.6 | 11 |
| 04-15-93 | 7100 | 730 | 240 | 350 | 570 | ND |
| 07-14-93 | 4500 | 540 | 97 | 380 | 610 | ND |
| 10-14-93 | 11000 | 710 | 170 | 650 | 1600 | ND |
| 01-13-94 | 6000 | 330 | 100 | 330 | 620 | 24 |
| 04-04-94 | 8700 | 350 | 58 | 350 | 660 | ND |
| 07-05-94 | 8800 | 250 | 340 | 370 | 920 | ND |
| 10-03-94 | 1300 | 63 | 42 | 110 | 140 | ND |

TABLE 2
ANALYTICAL TESTING RESULTS
Montgomery Ward Auto Service Center
ENEA Properties
Dublin, California
Parts per billion (ppb)

Page 2 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead |
|--------------------|-------|---------|---------|--------------|---------|------|
| 01-18-95 | 5000 | 93 | 65 | 190 | 510 | ND |
| 04-21-95 | 14000 | 190 | 320 | 420 | 1500 | ND |
| 07-28-95 | 10000 | 110 | 120 | 490 | 1500 | ND |
| 10-20-95 | 1400 | 16 | 13 | 81 | 180 | ND |
| Well B-15 | | | | | | |
| 04-16-92 | 65 | 4.4 | 2.4 | 6.1 | 2.8 | ND |
| 07-24-92 | ND | 3.6 | 1.5 | 3.1 | 1.6 | ND |
| 10-22-92 | ND | 1.7 | 0.89 | 0.78 | 0.88 | ND |
| 01-15-93 | ND | ND | ND | ND | ND | 13 |
| 04-15-93 | ND | 2.8 | ND | 3.0 | 1.5 | ND |
| 07-14-93 | ND | ND | ND | 0.57 | 0.74 | 7.8 |
| 10-14-93 | ND | 0.96 | 2.6 | 1.3 | 3.6 | 25 |
| 01-13-94 | ND | ND | 0.92 | 0.70 | 2 | ND |
| 04-04-94 | ND | ND | ND | 0.56 | 1 | ND |
| 07-05-94 | ND | ND | ND | ND | ND | ND |
| 10-03-94 | ND | ND | ND | ND | ND | ND |
| 01-18-95 | ND | ND | 0.69 | ND | 2.2 | ND |
| 04-21-95 | ND | ND | 1.0 | ND | 2.5 | ND |
| 07-28-95 | ND | ND | ND | ND | ND | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND |
| Well B-16 | | | | | | |
| 04-16-92 | 1300 | 390 | 1.7 | 35 | 9.3 | ND |
| 07-24-92 | 1600 | 120 | 5.7 | 120 | 410 | ND |
| 10-22-92 | 1000 | 76 | ND | 55 | 130 | ND |
| 01-15-93 | 160 | 6.5 | 0.86 | 2.3 | 2.6 | 5.5 |
| 04-15-93 | 300 | 65 | ND | 13 | 2 | ND |
| 07-14-93 | 170 | 5.9 | ND | 4.6 | 12 | ND |
| 10-14-93 | 390 | 11 | 2.4 | 16 | 45 | 21 |
| 01-13-94 | 350 | 8.7 | 0.62 | 25 | 68 | ND |
| 04-04-94 | 550 | 8.7 | ND | 35 | 81 | ND |
| 07-05-94 | 850 | 14 | 5.6 | 52 | 130 | ND |
| 10-03-94 | 210 | 5.3 | ND | 26 | 5.8 | ND |
| 01-18-95 | ND | ND | 0.94 | ND | 1.3 | 2.7 |
| 04-21-95 | ND | ND | 0.66 | ND | ND | ND |
| 07-28-95 | 57 | 0.71 | ND | 1.6 | 2.6 | ND |
| 10-20-95 | 810 | 4.1 | ND | 22 | 100 | ND |
| Well MW-100 | | | | | | |
| 05-13-93 | 13000 | 83 | ND | 960 | 820 | NA |
| 07-14-93 | 13000 | 32 | ND | 1400 | 790 | 8 |
| 10-14-93 | 7500 | 48 | 16 | 900 | 520 | 22 |
| 01-13-94 | 7000 | 51 | ND | 590 | 330 | ND |
| 04-04-94 | 9800 | 69 | ND | 540 | 410 | ND |
| 07-05-94 | 5900 | 31 | 8.7 | 190 | 190 | ND |
| 10-03-94 | 3900 | ND | ND | 220 | 200 | ND |

TABLE 2

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 3 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead |
|-------------------------|-------|---------|---------|--------------|---------|------|
| 01-18-95 | 3700 | 48 | 31 | 190 | 120 | 2.8 |
| 04-21-95 | 3100 | 10 | ND | 130 | 44 | ND |
| 07-28-95 | 3300 | ND | ND | 100 | 42 | ND |
| 10-20-95 | 2200 | ND | ND | 72 | 27 | ND |
| Well MW-101 | | | | | | |
| 05-13-93 | ND | ND | ND | ND | ND | NA |
| 07-14-93 | ND | ND | ND | ND | ND | 11 |
| 10-14-93 | ND | 0.65 | 0.89 | ND | 1.1 | ND |
| 01-13-94 | ND | ND | ND | ND | ND | 28 |
| 04-04-94 | ND | ND | ND | ND | ND | ND |
| 07-05-94 | ND | ND | ND | ND | ND | ND |
| 10-03-94 | ND | ND | ND | ND | ND | ND |
| 01-18-95 | ND | ND | ND | ND | ND | 2.6 |
| 04-21-95 | ND | ND | ND | ND | ND | ND |
| 07-28-95 | ND | ND | ND | ND | ND | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND |
| Well MW-102 | | | | | | |
| 05-13-93 | 3600 | 17 | ND | 130 | 63 | NA |
| 07-14-93 | 1500 | 13 | ND | 64 | 4.9 | ND |
| 10-14-93 | 24000 | 9.6 | 5.2 | 60 | 60 | ND |
| 01-13-94 | 2000 | 22 | ND | 26 | 55 | ND |
| 04-04-94 | 2100 | 16 | 2.5 | 15 | 35 | ND |
| 07-05-94 | 1300 | 7 | 2.9 | 10 | 23 | ND |
| 10-03-94 | 620 | 5.1 | ND | 5.2 | 11 | ND |
| 01-18-95 | 440 | ND | ND | 3.0 | 5.3 | 3.7 |
| 04-21-95 | 250 | ND | 0.78 | 0.96 | 0.63 | ND |
| 07-28-95 | 140 | ND | ND | ND | 0.70 | ND |
| 10-20-95 ⁽¹⁾ | NS | NS | NS | NS | NS | NS |
| EFFLUENT | | | | | | |
| 04-15-93 | ND | ND | ND | ND | ND | ND |
| 07-14-93 | ND | ND | ND | ND | ND | ND |
| 10-14-93 | ND | ND | ND | ND | 0.97 | 48 |
| 01-13-94 | ND | ND | ND | ND | ND | ND |
| 04-04-94 | ND | ND | ND | ND | ND | 33 |
| 07-05-94 | ND | ND | ND | ND | ND | ND |
| 10-03-94 | ND | ND | ND | ND | ND | ND |
| 01-18-95 | ND | ND | ND | ND | ND | ND |
| 04-21-95 | ND | 1.0 | ND | ND | ND | ND |
| 07-28-95 | ND | ND | ND | ND | 1.5 | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND |
| ENEA MW-1 | | | | | | |
| 10-14-93 | 5700 | 76 | 19 | 160 | 460 | ND |

TABLE 2

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 4 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead |
|------------------|-------|---------|---------|--------------|---------|------|
| 04-04-94 | 7000 | 27 | ND | 260 | 49 | ND |
| 07-05-94 | 5100 | 23 | ND | 260 | 50 | ND |
| 10-03-94 | 4400 | 8.1 | ND | 170 | 50 | ND |
| 01-18-95 | 2000 | 7.1 | 2.4 | 47 | 5.5 | 2.2 |
| 04-21-95 | 1400 | 2.9 | 9.0 | 22 | 1.2 | 5.8 |
| 07-28-95 | 1100 | ND | ND | 14 | 1.4 | ND |
| 10-20-95 | 1700 | ND | 2.2 | 22 | 3.6 | ND |
| ENEA MW-2 | | | | | | |
| 10-14-93 | ND | ND | ND | 1.1 | 0.71 | 21 |
| 04-04-94 | ND | ND | ND | ND | ND | 21 |
| 07-05-94 | ND | ND | ND | ND | ND | ND |
| 10-03-94 | 590 | 1.1 | ND | 22 | 6.5 | ND |
| 01-18-95 | ND | ND | ND | ND | ND | 2.4 |
| 04-21-95 | ND | ND | ND | ND | ND | ND |
| 07-28-95 | ND | ND | ND | ND | 0.57 | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND |
| ENEA MW-3 | | | | | | |
| 10-14-93 | 2600 | 26 | 30 | 100 | 130 | ND |
| 04-04-94 | 2600 | 13 | 3.4 | 90 | 140 | ND |
| 07-05-94 | 3400 | 15 | 5 | 31 | 48 | ND |
| 10-03-94 | 1400 | 6.3 | ND | 31 | 36 | ND |
| 01-18-95 | 2300 | 5.1 | 1.6 | 2.9 | 18 | 2.1 |
| 04-21-95 | 1900 | 5.3 | ND | 7.5 | 4.2 | ND |
| 07-28-95 | 1400 | ND | ND | 5.5 | 1.5 | ND |
| 10-20-95 | 730 | ND | ND | 1.7 | ND | ND |
| ENEA MW-4 | | | | | | |
| 04-04-94 | ND | ND | ND | ND | ND | 23 |
| 07-05-94 | ND | ND | 0.5 | ND | 0.62 | ND |
| 10-03-94 | ND | ND | ND | ND | ND | ND |
| 01-18-95 | ND | ND | 0.87 | ND | ND | 7.2 |
| 04-21-95 | ND | ND | 1.7 | ND | ND | 2.8 |
| 07-28-95 | ND | ND | ND | ND | ND | 2.9 |
| 10-20-95 | ND | ND | ND | ND | ND | ND |

NOTES:

In July 28, 1995 sampling, the Methyl-tert-butylether level was 55 ppb in Well B-10, 10 ppb in Well ENEA MW-1, 11 ppb in Well ENEA MW-3 and not detected in other wells.

In October 20, 1995 sampling, the Methyl-tert-butylether level was 13 ppb in Well B-10, 23 ppb in Well ENEA MW-1, 15 ppb in Well MW-100 and not detected in other wells.

(1) -Well MW-102 was not sampled because well was inaccessible due to street construction.

NA-Not Analyzed

ND-Not Detected

NS-Not Sampled

TABLE 3

FLOW METER READINGS
Montgomery Ward Auto Service Center
Dublin, California

Page 1 of 2

| DATE | FLOW METER READING (in gallons) | AVERAGE GPM |
|----------|---------------------------------------|----------------|
| 04/15/94 | 402,210 | |
| 04/22/94 | 458,320 | 5.57 |
| 04/26/94 | 488,950 | 5.32 |
| 05/03/94 | 491,750 | 0.28 |
| 05/20/94 | 639,200 | 6.02 |
| 06/03/94 | 759,790 | 5.98 |
| 06/29/94 | 941,580 | 4.86 |
| 07/06/94 | 999,750 | 5.77 |
| 07/12/94 | 999,906 | 0.02 |
| 07/19/94 | 1,006,600 | 0.66 |
| 07/22/94 | 1,032,828 | 6.07 |
| 08/02/94 | 1,102,920 | 4.43 |
| 08/11/94 | 1,169,050 | 5.10 |
| 08/18/94 | 1,226,910 | 5.74 |
| 09/02/94 | 1,284,880 | 2.68 |
| 09/16/94 | 1,349,350 | 3.20 |
| 09/30/94 | 1,390,510 | 2.04 |
| 10/04/94 | 1,419,110 | 4.97 |
| 10/14/94 | 1,471,530 | 3.64 |
| 10/16/94 | 1,482,270 | 3.73 |
| 10/21/94 | 1,504,630 | 3.11 |
| 11/09/94 | 1,607,260 | 3.75 |
| 11/18/94 | 1,659,920 | 4.06 |
| 12/02/94 | 1,746,840 | 4.31 |
| 12/16/94 | 1,844,050 | 4.82 |
| 01/03/95 | 1,913,930 | 2.70 |
| 01/18/95 | 1,994,670 | 3.74 |
| 01/19/95 | 1,997,480 | 1.95 |
| 02/04/95 | 1,997,480 | 0.00 |
| 02/18/95 | 2,065,120 | 3.36 |
| 02/24/95 | 2,113,210 | 5.57 |
| 03/04/95 | 2,160,520 | 4.11 |
| 03/14/95 | 2,216,350 | 3.88 |
| 03/25/95 | 2,263,180 | 2.96 |
| 04/04/95 | 2,322,830 | 4.14 |
| 04/14/95 | 2,361,020 | 2.65 |
| 04/20/95 | 2,361,020 | 0.00 |
| 04/21/95 | 2,367,000 | 4.15 |
| 04/28/95 | 2,395,430 | 2.82 |

TABLE 3

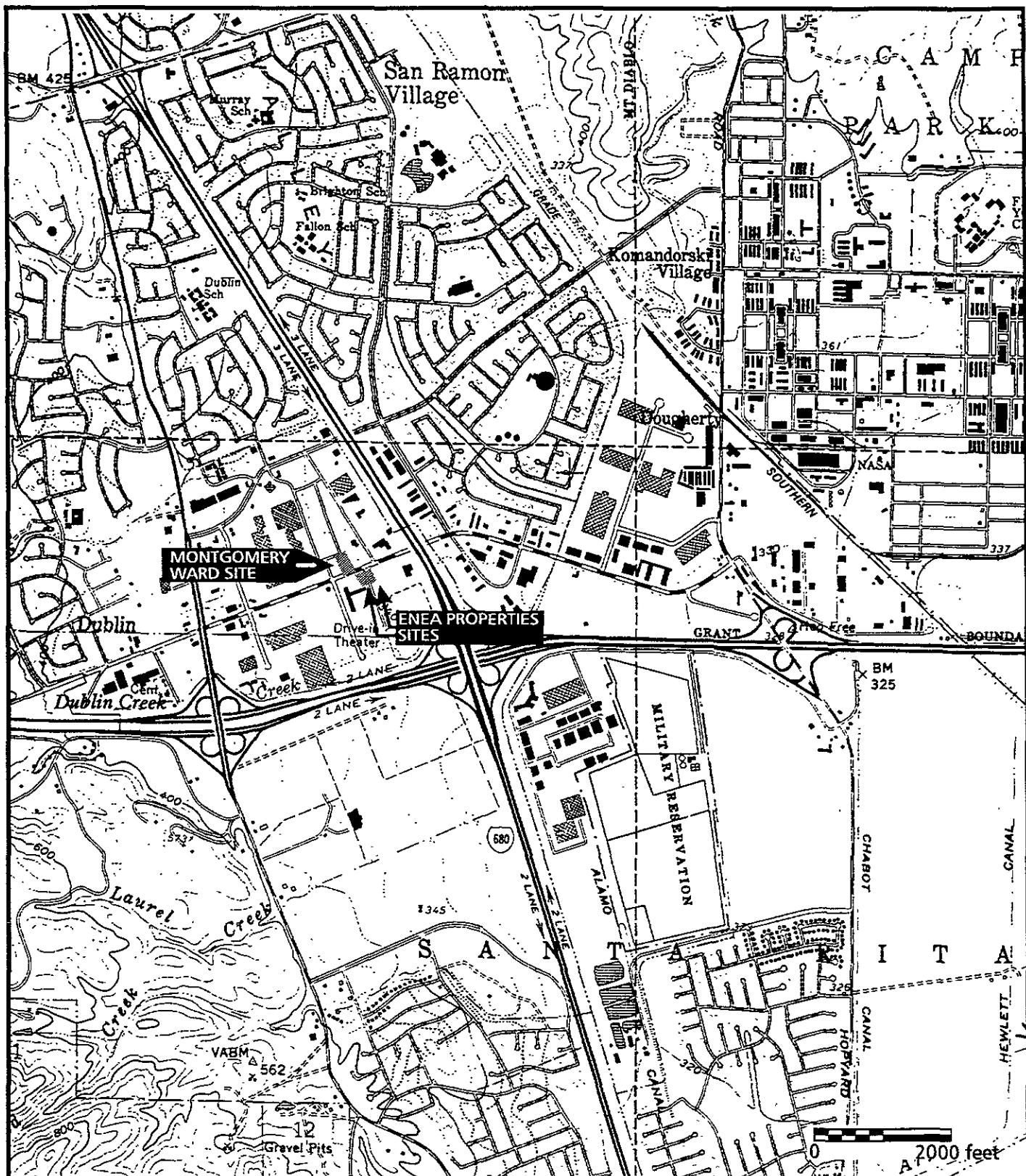
FLOW METER READINGS
Montgomery Ward Auto Service Center
Dublin, California

| DATE | FLOW METER READING (in gallons) | AVERAGE GPM |
|---|---------------------------------------|----------------|
| 05/06/95 | 2,422,520 | 2.35 |
| 05/19/95 | 2,472,180 | 2.65 |
| 06/02/95 | 2,508,060 | 1.78 |
| 06/15/95 | 2,539,020 | 1.65 |
| 06/22/95 | 2,580,488 | 4.11 |
| 07/14/95 | 2,640,660 | 1.90 |
| 07/28/95 | 2,675,790 | 1.74 |
| 08/11/95 | 2,734,880 | 2.93 |
| 08/28/95 | 2,826,100 | 3.73 |
| 09/08/95 | 2,883,370 | 3.62 |
| 09/29/95 | 2,969,690 | 2.85 |
| 10/13/95 | 3,063,500 | 4.65 |
| 10/20/95 | 3,105,730 | 4.19 |
| <hr/> | | <hr/> |
| VOLUME SINCE 04/15/1994 = 2,703,520 Gal | | 3.40 |
| VOLUME FROM 7/28/95 TO 10/20/95 = 429,940 Gal | | 3.55 |

GPM – Gallons per minute

LOTUS123:1233FLOW

FIGURES



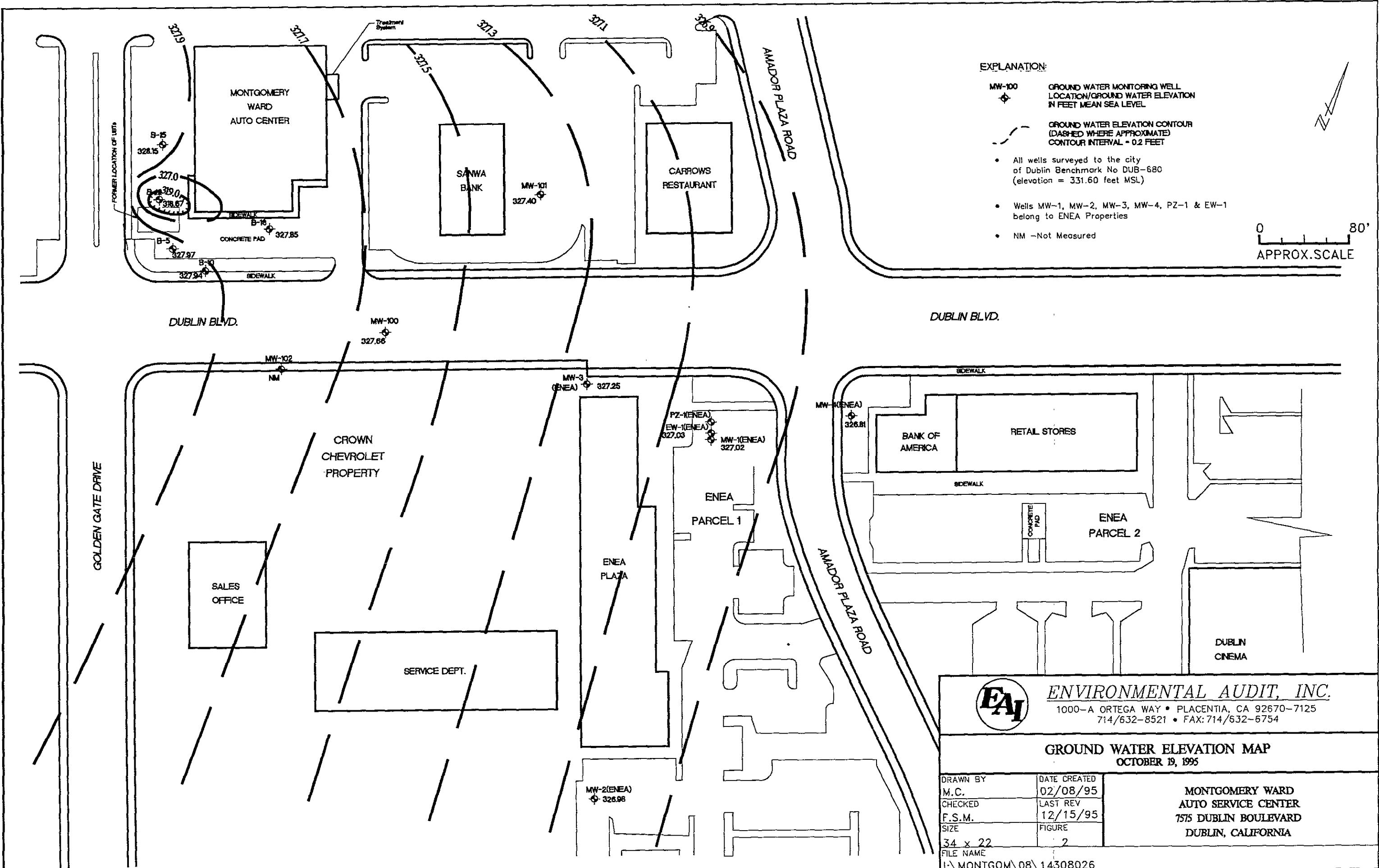
Environmental Audit, Inc.

LOCATION MAP
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

SOURCE: USGS TOPOGRAPHIC 7.5 MINUTE SERIES
DUBLIN, CALIFORNIA QUADRANGLE

Project No. 1233
K:\1233\1233-L.M.CDR

Figure 1



APPENDICES

**APPENDIX A: GROUND WATER SAMPLING LOG
FORMS**

GROUND WATER Sampling Log



Environmental Audit, Inc.

**Planning, Environmental Analyses and Hazardous
Substances Management and Remediation**

| | |
|-------------------------|------------------------|
| DATE: | 10/19/95 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward-Dublin |
| WELL NO.: | B-10 |
| WELL DIAMETER (INCHES): | 2" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bgs)

DEPTH TO FREE
PRODUCT (ft. bgs)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 20 | 0.16 |
| 4.0 | 0.55 |
| 6.0 | 1.47 |

PURGE TIME (hrs.):

START

13155

STOP

111

**ONE CASING
VOLUME OF WATER (GALLONS)**

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BAILER □

OTHER

TYPE/MODEL:

Whale Supersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

14:35

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BAILER X

OTHER

TYPE/MODEL :

Voss Technologies

GROUND WATER Sampling Log



Environmental Audit, Inc.

**Planning, Environmental Analyses and Hazardous
Substances Management and Remediation**

| | |
|-------------------------|------------------------|
| DATE: | 10/17/95 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward-Dublin |
| WELL NO.: | B-15 |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bas)

DEPTH TO FREE
PRODUCT (ft. bgs)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |

PURGE TIME (hrs.):

START

16:50

STOP

17-61

ONE CASING
VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BALLER

OTHER

TYPE/MODEL:

Whale Supersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

1741

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BAUER X

OTHER

TYPE/MODEL :

Voss Technologies

GROUND WATERSampling Log



Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

| | |
|-------------------------|------------------------|
| DATE: | 10/19/95 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward-Dublin |
| WELL NO.: | B-16 |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bas)

DEPTH TO FREE
PRODUCT (ft. base)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.05 |
| 6.0 | 1.47 |

PURGE TIME (hrs.):

START 16:00

STOP 16:20

ONE CASING
VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP

DEDICATED PUMP □

BAILER

OTHER

TYPE/MODEL:

Whale Supersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

1655

METHOD: DOWN HOLE PUMP

DEDICATED PUMP BAILE

OTHER

TYPE/MODEL :

Voss Technologies

COMMENTS:

GROUND WATER Sampling Log



Environmental Audit, Inc.

**Planning, Environmental Analyses and Hazardous
Substances Management and Remediation**

| | |
|--------------------------------|----------|
| DATE: | 10/19/95 |
| PROJECT NO.: | 1233 |
| CLIENT: Montgomery Ward-Dublin | |
| WELL NO.: | MW-10c |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. b.s)

DEPTH TO FREE
PRODUCT (ft. hrs¹)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |

PURGE TIME (hrs.):

START 16:07

STOP

16:35

ONE CASING
VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BAUER □

OTHER

TYPE/MODEL:

Whale Supersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

17/15

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BAUER

OTHER

TYPE/MODEL :

Voss Technologies

GROUND WATER Sampling Log



Environmental Audit, Inc.

**Planning, Environmental Analyses and Hazardous
Substances Management and Remediation**

| | |
|-------------------------|------------------------|
| DATE: | 10/26/95 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward-Dublin |
| WELL NO.: | MW-1C 1 |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bas)

DEPTH TO FREE
PRODUCT (ft. bas)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |

PURGE TIME (hrs.):

START

10:46

STOP

103

ONE CASING
VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP

DEDICATED PUMP □

BALLER □

OTHER

TYPE/MODEL:

Whale Supersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

11:23

METHOD: DOWN HOLE PUMP

DEDICATED PUMP □

BAILER

OTHER

TYPE/MODEL :

Voss Technologies

COMMENTS:

GROUND WATER Sampling Log



Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

| | |
|-------------------------|------------------------|
| DATE: | 10/20/95 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward-Dublin |
| WELL NO.: | FWFA W-2 |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

PURGE TIME (hrs.):

START

7-05

STOP

7/13

ONE CASING
VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP

DEDICATED PUMP F

STOP

-7-3

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER
TYPE/MODEL:

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

1115

METHOD: DOWN HOLE PUMP

DEDICATED PUMP

BALLER X

OTHER

TYPE/MODEL :

Voss Technologies

**APPENDIX B: CHAIN OF CUSTODY RECORD
FORMS**



ENVIRONMENTAL AUDIT, INC.

Planning, Environmental Analyses and Hazardous
Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

(714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA NPDES SDWA

| | | | |
|-------------------|--|-----------------------------------|--|
| WRITTEN OC REPORT | ROUTINE OC <input checked="" type="checkbox"/> | RWQCB OC <input type="checkbox"/> | TURNAROUND TIME: |
| | | | SAME DAY <input type="checkbox"/> 24hr <input type="checkbox"/> 18hr <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> |

| PROJECT NO. | PROJECT NAME | CONTR TYPE | ANALYSES REQUESTED | | | | | | | | | | | | REMARKS | | |
|---------------|--------------|------------|--------------------|---------|--------------------|-------------|-------------|-------------|-----------|----------|----------|--------------|--------------------|------|------------|--|----------------------|
| | | | GLASS | PLASTIC | BRASS/SS TUBE | TPH-D 8015M | TPH-G 8015M | TPH-H 418.1 | BTEX 8020 | VOC 8240 | EOC 8270 | OIL & GREASE | CAM METALS TOT/WET | LEAD | HVOOC 8010 | | |
| SAMPLE NUMBER | DATE | TIME | COMP | GRAB | SAMPLE DESCRIPTION | | | | | | | | | | | | NUMBER OF CONTAINERS |
| B-12 | 10/19/95 | 12:00 | / | / | Water | | | | | | | | | | | | 3 |
| B-5 | " | 14:24 | / | / | " | | | | | | | | | | | | 3 |
| B-10 | " | 14:35 | / | / | " | | | | | | | | | | | | 3 |
| B-16 | " | 16:55 | / | / | " | | | | | | | | | | | | 3 |
| MW-100 | " | 17:15 | / | / | " | | | | | | | | | | | | 2 |
| B-15 | " | 17:40 | / | / | " | | | | | | | | | | | | 3 |
| ENE-A MW-1 | 10/20/95 | 9:30 | / | / | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 21 |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------------------|------------------------------|-----------------------------------|-------------------------------|-----------|-----------------------------------|-----------|-----------------------------------|------------------|-------------------------------|--------------|
| RELINQUISHED BY: (Signature/Name) | John R. Cimbricz | DATE/TIME | 15:24 10/20/95 | RECEIVED BY: (Signature/Name) | Bill Rose | RELINQUISHED BY: (Signature/Name) | Bill Rose | DATE/TIME | 10:20:95 4/10 | RECEIVED BY: (Signature/Name) | Kimberly Eng |
| RELINQUISHED BY: (Signature/Name) | Kimberly Eng | DATE/TIME | 10/20/95 6:00 | RECEIVED BY: (Signature/Name) | | RELINQUISHED BY: (Signature/Name) | | DATE/TIME | | RECEIVED BY: (Signature/Name) | |
| SAMPLES SHIPPED VIA: | FEDEX <input type="checkbox"/> | UPS <input type="checkbox"/> | AIRBORNE <input type="checkbox"/> | SHIPPED BY: (Signature/Name) | | COURIER: (Signature/Name) | | RECEIVED FOR BY: (Signature/Name) | | DATE/TIME | |
| HAND <input type="checkbox"/> | AIRFREIGHT <input type="checkbox"/> | | | AIRBILL #: | | | | LAB: | | | |

G9510408 PAGE 2 of 2



ENVIRONMENTAL AUDIT, INC.®

Planning, Environmental Analyses and Hazardous
Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

(714) 632 - 8521
(FAX) (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA NPDES SDWA

WRITTEN QC REPORT TURNAROUND TIME:

ROUTINE QC
RWOCB QC SAME DAY 24hr 48hr NORMAL

| PROJECT NO. | PROJECT NAME | | CONTR TYPE | ANALYSES REQUESTED | | | | | | | | | | REMARKS | |
|---------------|------------------------|---------------------------------------|------------|--------------------|---------|---------------|-------------|-------------|-------------|-----------|----------|----------|--------------|----------------------|---|
| | | | | GLASS | PLASTIC | BRASS/SS TUBE | TPH-D 8015M | TPH-G 8015M | TPH-H 418.1 | BTEX 8020 | VOC 8240 | EOC 8270 | OIL & GREASE | CAM METALS TOT WET | |
| 1233 | Montgomery Ward-Dublin | | | | | | | | | | | | | | |
| | | SAMPLER (Signature with Printed Name) | | | | | | | | | | | | | |
| | | John R. Cimbricci | | | | | | | | | | | | | |
| | | John R. Cimbricci | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | COMP GRADE | SAMPLE DESCRIPTION | | | | | | | | | | NUMBER OF CONTAINERS | |
| ENE-A mw-3 | 10/20/95 | 9:50 | / | Water | | | | | | | | | | 3 | One 1-liter Plastic Bottle (Lead) Two 40-mL VOA Vials (TPH/BTEX) |
| ENE-A mw-4 | 11 | 10:00 | / | " | | | | | | | | | | 3 | -8 |
| ENE-A mw-2 | 11 | 10:15 | / | " | | | | | | | | | | 3 | -9 |
| MW-101 | 11 | 11:23 | / | " | | | | | | | | | | 3 | -10 |
| Effluent | 11 | 11:45 | / | " | | | | | | | | | | 3 | -11 |
| | | | | | | | | | | | | | | | -12 |

| | | | | | | | | | | | |
|---|---|-----------------------------------|-------------------|-------------------------------|------------|-----------------------------------|------------|-----------------------------------|------------------|-------------------------------|--------------|
| RELINQUISHED BY: (Signature/Name) | John R. Cimbricci | DATE/TIME | 10/20/95 15:20 | RECEIVED BY: (Signature/Name) | Bill Lyons | RELINQUISHED BY: (Signature/Name) | Bill Lyons | TOTAL NUMBER OF CONTAINERS | 15 | RECEIVED BY: (Signature/Name) | Kimberly Eng |
| RELINQUISHED BY: (Signature/Name) | Kimberly Eng | DATE/TIME | 10/20/95 6:00 | RECEIVED BY: (Signature/Name) | | RELINQUISHED BY: (Signature/Name) | | DATE/TIME | 10-20-95 4:10 | RECEIVED BY: (Signature/Name) | |
| SAMPLES SHIPPED VIA: | FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> AIRBORNE <input type="checkbox"/> | AIRBORNE <input type="checkbox"/> | | SHIPPED BY: (Signature/Name) | | COURIER: (Signature/Name) | | RECEIVED FOR BY: (Signature/Name) | | DATE/TIME | |
| HAND <input type="checkbox"/> AIRFREIGHT <input type="checkbox"/> | AIRFREIGHT <input type="checkbox"/> | | | AIRBILL #: | | | | LAB: | | | |

APPENDIX C: LABORATORY REPORTS

ANALYTICAL REPORT

B C Analytical

1085 Shary Circle
 Concord, CA 94518
 510/825-3894
 Fax: 510/825-3924

LOG NO: G95-10-408

NOV 7 1995

Received: 20 OCT 95

LABORATORY

Mailed: NOV 1 1995

Mr. Frank Muramoto
 Environmental Audit
 1000 A Ortega Way
 Placentia, California 92670

Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 1

| LOG NO | SAMPLE DESCRIPTION, AQUEOUS SAMPLES | DATE SAMPLED | | | | |
|-----------------------------------|-------------------------------------|--------------|----------|----------|----------|-----------|
| 10-408-1 | B-12 | | | | | 19 OCT 95 |
| 10-408-2 | B-5 | | | | | 19 OCT 95 |
| 10-408-3 | B-10 | | | | | 19 OCT 95 |
| 10-408-4 | B-16 | | | | | 19 OCT 95 |
| 10-408-5 | MW-100 | | | | | 19 OCT 95 |
| PARAMETER | | 10-408-1 | 10-408-2 | 10-408-3 | 10-408-4 | 10-408-5 |
| Lead (7421), mg/L | | <0.002 | 0.0042 | <0.002 | <0.002 | <0.002 |
| Furnace Digestion (3020), Date | 10/30/95 | 10/30/95 | 10/30/95 | 10/30/95 | 10/30/95 | 10/30/95 |
| TPH (8015M.TX) | | | | | | |
| Date Analyzed | | 10/27/95 | 10/27/95 | 10/27/95 | 10/27/95 | 10/27/95 |
| Dilution Factor, Times | | 1 | 5 | 1 | 1 | 1 |
| Benzene, ug/L | | 16 | 27 | 3.9 | 4.1 | <0.5 |
| Toluene, ug/L | | 13 | 15 | 1.5 | <0.5 | <0.5 |
| Ethylbenzene, ug/L | | 81 | 210 | 74 | 22 | 72 |
| Methyl-tert-butylether, ug/L | | <10 | <50 | 13 | <10 | 15 |
| Total Xylene Isomers, ug/L | | 180 | 530 | 170 | 100 | 27 |
| Carbon Range, . | C6-C12 | C6-C12 | C6-C12 | C6-C12 | C6-C12 | C6-C12 |
| TPH (Gasoline Range), ug/L | 1400 | 3400 | 1900 | 810 | 2200 | |
| Surrogates ** | | | | | | |
| a,a,a-Trifluorotoluene Rep., ug/L | 52.7 | 269 | 54.7 | 54.0 | 59.7 | |
| a,a,a-Trifluorotoluene Th., ug/L | 50.0 | 250 | 50.0 | 50.0 | 50.0 | |



B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G95-10-408

Received: 20 OCT 95

Mr. Frank Muramoto
Environmental Audit
1000 A Ortega Way
Placentia, California 92670

Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 2

| LOG NO | SAMPLE DESCRIPTION, AQUEOUS SAMPLES | DATE SAMPLED | | | | |
|-----------------------------------|-------------------------------------|--------------|----------|----------|----------|-----------|
| 10-408-6 | B-15 | | | | | 19 OCT 95 |
| 10-408-7 | EWEA MW-1 | | | | | 20 OCT 95 |
| 10-408-8 | EWEA MW-3 | | | | | 20 OCT 95 |
| 10-408-9 | EWEA MW-4 | | | | | 20 OCT 95 |
| 10-408-10 | EWEA MW-2 | | | | | 20 OCT 95 |
| PARAMETER | | 10-408-6 | 10-408-7 | 10-408-8 | 10-408-9 | 10-408-10 |
| Lead (7421), mg/L | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Furnace Digestion (3020), Date | 10/30/95 | 10/30/95 | 10/30/95 | 10/30/95 | 10/30/95 | 10/30/95 |
| TPH (8015M.TX) | | | | | | |
| Date Analyzed | | 10/27/95 | 10/27/95 | 10/27/95 | 10/28/95 | 10/28/95 |
| Dilution Factor, Times | | 1 | 1 | 1 | 1 | 1 |
| Benzene, ug/L | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Toluene, ug/L | | <0.5 | 2.2 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene, ug/L | | <0.5 | 22 | 1.7 | <0.5 | <0.5 |
| Methyl-tert-butylether, ug/L | | <10 | 23 | <10 | <10 | <10 |
| Total Xylene Isomers, ug/L | | <0.5 | 3.6 | <0.5 | <0.5 | <0.5 |
| Carbon Range, . | C6-C12 | C6-C12 | C6-C12 | C6-C12 | C6-C12 | C6-C12 |
| TPH (Gasoline Range), ug/L | <50 | 1700 | 730 | <50 | <50 | <50 |
| Surrogates ** | | | | | | |
| a,a,a-Trifluorotoluene Rep., ug/L | 51.6 | 58.6 | 57.2 | 53.1 | 52.6 | |
| a,a,a-Trifluorotoluene Th., ug/L | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |

BCA

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G95-10-408

Received: 20 OCT 95

Mr. Frank Muramoto
Environmental Audit
1000 A Ortega Way
Placentia, California 92670

Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 3

| LOG NO | SAMPLE DESCRIPTION, AQUEOUS SAMPLES | DATE SAMPLED | |
|-----------------------------------|-------------------------------------|--------------|-----------|
| 10-408-11 | MW-101 | | 20 OCT 95 |
| 10-408-12 | Effluent | | 20 OCT 95 |
| PARAMETER | | 10-408-11 | 10-408-12 |
| Lead (7421), mg/L | | <0.002 | <0.002 |
| Furnace Digestion (3020), Date | | 10/30/95 | 10/30/95 |
| TPH (8015M.TX) | | | |
| Date Analyzed | | 10/28/95 | 10/28/95 |
| Dilution Factor, Times | | 1 | 1 |
| Benzene, ug/L | | <0.5 | <0.5 |
| Toluene, ug/L | | <0.5 | <0.5 |
| Ethylbenzene, ug/L | | <0.5 | <0.5 |
| Methyl-tert-butylether, ug/L | | <10 | <10 |
| Total Xylene Isomers, ug/L | | <0.5 | <0.5 |
| Carbon Range, . | | C6-C12 | C6-C12 |
| TPH (Gasoline Range), ug/L | | <50 | <50 |
| Surrogates ** | | | |
| a,a,a-Trifluorotoluene Rep., ug/L | | 53.7 | 53.7 |
| a,a,a-Trifluorotoluene Th., ug/L | | 50.0 | 50.0 |



B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G95-10-408

Received: 20 OCT 95

Mr. Frank Muramoto
Environmental Audit
1000 A Ortega Way
Placentia, California 92670

Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 4

Jane Freemyer
Jane Freemyer, Program Manager

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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BCA

| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM..... | DATE..... | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|---------------|-----------|-------------|--------|---------|-------|
| | | | | ANALYZED | | | |
| 9510408*1 | B-12 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*2 | B-5 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*3 | B-10 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*4 | B-16 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*5 | MW-100 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*6 | B-15 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*7 | EWEA MW-1 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*8 | EWEA MW-3 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.27.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*9 | EWEA MW-4 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.28.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*10 | EWEA MW-2 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.28.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*11 | MW-101 | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.28.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |
| 9510408*12 | Effluent | PB,GFA | 10.30.95 | 7421 | 534-04 | 951892 | 7396 |
| | | GAS.BTX.TESNC | 10.28.95 | 8015M.TX | 536-23 | 955142 | 8559 |
| | | DIG,AQ,GFA | 10.30.95 | 3020 | | 951892 | 7093 |

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9510408

DATE REPORTED : 11/01/95

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY | |
|-----------------------------|------------------|-----------------|--------------|--------------|--------|---------------------|----|
| 1. Lead | C5103789*1 | 10.30.95 | 951892 | 0.0453 | 0.0500 | mg/L | 91 |
| 2. Lead | C5103790*1 | 10.30.95 | 951892 | 0.0457 | 0.0500 | mg/L | 91 |
| 3. BTEX/TPH | C5103670*1 | | | | | | |
| Date Analyzed | 10.27.95 | 955142 | 10/27/95 | 10/27/95 | Date | N/A | |
| Benzene | 10.27.95 | 955142 | 14.6 | 15.2 | ug/L | 96 | |
| Toluene | 10.27.95 | 955142 | 94.4 | 97.4 | ug/L | 97 | |
| Ethylbenzene | 10.27.95 | 955142 | 20.3 | 20.4 | ug/L | 100 | |
| Total Xylene Isomers | 10.27.95 | 955142 | 122 | 119 | ug/L | 103 | |
| TPH (Gasoline Range) | 10.27.95 | 955142 | 1160 | 1100 | ug/L | 105 | |
| a,a,a-Trifluorotoluene Rep. | 10.27.95 | 955142 | 60.5 | 50.0 | ug/L | 121 Q | |
| a,a,a-Trifluorotoluene Th. | 10.27.95 | 955142 | 50.0 | 50.0 | ug/L | 100 | |

BC ANALYTICAL

ORDER QC REPORT FOR G9510408

DATE REPORTED : 11/01/95

Page 1

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

| PARAMETER | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | LC1 RESULT | LC2 RESULT | UNIT | RELATIVE % DIFF |
|-----------|------------------|------------------|-----------------|---------------|---------------|------|--------------------|
| 1. Lead | | 10.30.95 | 951892 | 0.0453 | 0.0457 | mg/L | 1 |

BC ANALYTICAL

ORDER QC REPORT FOR G9510408

DATE REPORTED : 11/01/95

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

| PARAMETER | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | RELATIVE % DIFF |
|-----------------------------|---------------|---------------|--------------|-----------|------------|-----------------|
| 1. Lead | 9510408*1 | 10.30.95 | 951892 | 0.0198 | 0.0194 | mg/L 2 |
| 2. TPH | 9510383*1 | | | | | |
| Date Analyzed | | 10.27.95 | 955142 | 10/27/95 | 10/27/95 | Date N/A |
| Benzene | | 10.27.95 | 955142 | 13.7 | 13.9 | ug/L 1 |
| Toluene | | 10.27.95 | 955142 | 89.9 | 88.5 | ug/L 2 |
| Ethylbenzene | | 10.27.95 | 955142 | 18.9 | 18.9 | ug/L 0 |
| Total Xylene Isomers | | 10.27.95 | 955142 | 115 | 115 | ug/L 0 |
| TPH (Gasoline Range) | | 10.27.95 | 955142 | 1140 | 1180 | ug/L 3 |
| a,a,a-Trifluorotoluene Rep. | | 10.27.95 | 955142 | 58.8 | 58.7 | ug/L 0 |
| a,a,a-Trifluorotoluene Th. | | 10.27.95 | 955142 | 50.0 | 50.0 | ug/L 0 |

BC ANALYTICAL

ORDER QC REPORT FOR G9510408

DATE REPORTED : 11/01/95

Page 1

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

| PARAMETER | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS % | MSD % | TRUE RESULT | UNIT |
|-----------------------------|---------------|---------------|--------------|-------|-------|-------------|------|
| 1. Lead | 9510408*1 | 10.30.95 | 951892 | 99 | 97 | 0.0200 | mg/L |
| 2. TPH | 9510383*1 | | | | | | |
| Benzene | | 10.27.95 | 955142 | 90 | 91 | 15.2 | ug/L |
| Toluene | | 10.27.95 | 955142 | 92 | 91 | 97.4 | ug/L |
| Ethylbenzene | | 10.27.95 | 955142 | 93 | 93 | 20.4 | ug/L |
| Total Xylene Isomers | | 10.27.95 | 955142 | 97 | 97 | 119 | ug/L |
| TPH (Gasoline Range) | | 10.27.95 | 955142 | 104 | 107 | 1100 | ug/L |
| a,a,a-Trifluorotoluene Rep. | | 10.27.95 | 955142 | 118 Q | 117 | 50.0 | ug/L |
| a,a,a-Trifluorotoluene Th. | | 10.27.95 | 955142 | 100 | 100 | 50.0 | ug/L |

BC ANALYTICAL

ORDER QC REPORT FOR G9510408

DATE REPORTED : 11/01/95

Page 1

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER | | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT | METHOD |
|-----------------------------|------------|------------------|-----------------|-----------------|-------|------|--------|
| 1. Lead | B5102127*1 | 10.30.95 | 951892 | 0 | 0.002 | mg/L | 239.2 |
| 2. BTEX/TPH | B5102061*1 | | | | | | |
| Date Analyzed | | 10.27.95 | 955142 | 10/27/95 | NA | Date | 8015M |
| Benzene | | 10.27.95 | 955142 | 0 | 0.3 | ug/L | 8015M |
| Toluene | | 10.27.95 | 955142 | 0 | 0.3 | ug/L | 8015M |
| Ethylbenzene | | 10.27.95 | 955142 | 0 | 0.3 | ug/L | 8015M |
| Total Xylene Isomers | | 10.27.95 | 955142 | 0 | 0.6 | ug/L | 8015M |
| TPH (Gasoline Range) | | 10.27.95 | 955142 | 0 | 100 | ug/L | 8015M |
| a,a,a-Trifluorotoluene Rep. | | 10.27.95 | 955142 | 50.8 | 0.5 | ug/L | 8015M |
| a,a,a-Trifluorotoluene Th. | | 10.27.95 | 955142 | 50.0 | NA | ug/L | 8015M |

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

StID 1054

April 25, 1996

Mr. Edward Leonhardt
Environmental Audit, Inc
1000A Ortega Way
Placentia, CA 92670-7125

RE: Use of ORC in Groundwater Monitoring Wells

Dear Mr. Leonhardt:

I have received information from Regenesis, who developed the Oxygen Release Compound (ORC) remediation technology, that it is not recommended to purge monitoring wells with ORC prior to sampling. Purging would remove dissolved oxygen, thus defeating the purpose of using ORC.

Future sampling should discontinue purging of wells B5 and B12. Analysis for MTBE may also be discontinued at this time.

If you have any questions, I can be reached at (510) 567-6762.

A handwritten signature in black ink, appearing to read "eva chu".

eva chu
Hazardous Materials Specialist

c: Ed Koberstein, Montgomery Ward Inc, 1331 South Harbor Blvd.
Fullerton, CA 92632
files



ENVIRONMENTAL AUDIT, INC.

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

714/632-8521 • FAX: 714/632-6754

- ① descent MTBE analysis
② descent purging of wells w/ OPC

April 22, 1996

Project No. 1233

Ms. Eva Chu
Alameda County Health Care Services
Department of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

ENVIRONMENTAL
PROTECTION

96 APR 24 PM 3:42

RE: GROUND WATER MONITORING REPORT
FIRST QUARTER 1996
Montgomery Ward Auto Service Center
7575 Dublin Boulevard, Dublin, California

Dear Ms. Chu:

Enclosed herewith are two copies of our report entitled, "Ground Water Monitoring Report, First Quarter 1996, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California," dated March 29, 1996.

Please call the undersigned if you have any questions or need additional information.

Sincerely,

ENVIRONMENTAL AUDIT, INC.

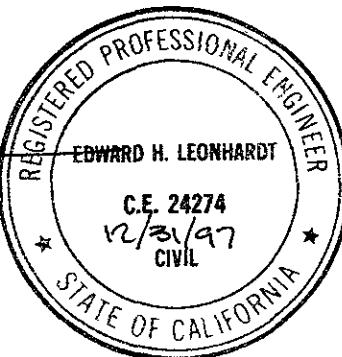
Edward H. Leonhardt

Edward H. Leonhardt, R.C.E.
Manager, Civil Engineering

EHL:SH

enclosure

cc: E. Koberstein, Montgomery Ward (w/enclosure)
G. Jonas, Montgomery Ward (w/enclosure)
M. Gilmartin, Straw & Gilmartin (w/enclosure)
R. Enea, Enea Properties (w/enclosure)
M.B. DeBord, Altheimer & Gray (w/enclosure)



JRC:WORD:1233M96A

GROUND WATER MONITORING REPORT

FIRST QUARTER 1996

Montgomery Ward Auto Service Center
7575 Dublin Boulevard
Dublin, California

Prepared for:

MONTGOMERY WARD & CO., INCORPORATED
1331 South Harbor Boulevard
Fullerton, CA 92632

Submitted to:

ALAMEDA COUNTY HEALTH CARE SERVICES
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

Project No. 1233

March 29, 1995

ENVIRONMENTAL AUDIT, INC. ®

Planning, Environmental Analyses and Hazardous
Substances Management and Remediation

1000-A ORTEGA WAY
PLACENTIA, CA 92670-7125
714/632-8521

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|--|------|
| 1.0 INTRODUCTION..... | 1 |
| 2.0 FIELD INVESTIGATION | 1 |
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JRC:WORD:1233M96A

1.0 INTRODUCTION

This document constitutes the First Quarter 1996 ground water monitoring report for the Montgomery Ward Auto Service Center property located at 7575 Dublin Boulevard, Dublin, California (Montgomery Ward site) (see Figure 1). Environmental Audit, Inc. (EAI) was retained by Montgomery Ward to complete the quarterly monitoring. The quarterly ground water monitoring activities are conducted during the first month of each calendar quarter, i.e., in January, April, July, and October.

A ground water extraction and treatment system was formerly operated at the Montgomery Ward site between 1990 and 1995. Pursuant to approval from the Alameda County Health Care Services, Department of Environmental Health (County Health) the ground water extraction and treatment system was deactivated on October 20, 1995, and an oxygen releasing compound (ORC) was placed in Montgomery Ward wells B-5 and B-12. Post remediation monitoring is now being conducted. This report documents the first quarter sampling event after deactivation of the ground water extraction and treatment system.

As requested by County Health, ground water monitoring wells MW-1 through MW-4 associated with the Enea Properties sites located immediately south of the intersection of Amador Plaza Road and Dublin Boulevard (see Figure 1), are included in the quarterly ground water monitoring activities for the Montgomery Ward site.

All wells associated with the Montgomery Ward site and Enea Properties sites are gauged on a quarterly basis. The following lists the wells sampled on a quarterly basis:

- January: Montgomery Ward wells: B-5, B-10, B-12, MW-100 and MW-102
Enea wells: MW-1 and MW-3
- April: Montgomery Ward wells: B-5, B-10, B-12, B-16, MW-100 and MW-102
Enea wells: MW-1, MW-2, MW-3 and MW-4
- July: Montgomery Ward wells: B-5, B-10, B-12, MW-100 and MW-102
Enea wells: MW-1 and MW-3
- October: Montgomery Ward wells: B-5, B-10, B-12, B-16, MW-100 and MW-102
Enea wells: MW-1 and MW-3

2.0 FIELD INVESTIGATION

2.1 GROUND WATER ELEVATION SURVEY

On January 11, 1996, EAI gauged all wells associated with the Montgomery Ward site and Enea Properties sites using an Oil Recovery System interface probe accurate to 0.01 feet. No free-product was detected in any of the wells. The measured water levels were converted to elevations relative to mean sea level datum by subtracting the measured water level for each

well from the ground level datum (see Table 1). Ground water elevation data obtained from the wells were used to construct a ground water elevation map (see Figure 2).

2.2 DISSOLVED OXYGEN READINGS

On January 11, 1996 dissolved oxygen readings were obtained from each well using a YSI Model 50B dissolved oxygen meter. Readings were obtained at the water surface and from one, three, five and seven feet below the water surface (see Table 2).

2.3 GROUND WATER SAMPLING

On January 12, 1996, ground water samples were obtained for analytical testing from Montgomery Ward wells B-5, B-10, B-12, MW-100 and MW-102, and from Enea Properties wells MW-1 and MW-3. Prior to sampling, all wells were purged using a Whale Supersub 921 submersible pump. Purging activities continued until the temperature, conductivity and pH of the extracted water had stabilized (see Appendix A).

Do not purge well B5 + B12 in future

All wells were sampled in the order that purging activities were completed. The water samples were collected from just below the water surface using Voss Technologies disposable bottom bailers equipped with volatile organic compound samplers. Use of these bailers precludes the potential for cross-contamination. The water samples were sealed in a one-liter plastic bottle and two 40-milliliter Volatile Organic Analysis vials with Teflon septa lined lids. The containers were completely filled so that no head space existed between the samples and the lids. The samples were labeled with the sample point identification, date, time and EAI project number, and immediately placed into an ice chest, chilled using ice. The samples remained chilled until delivered to the laboratory for analytical testing. All samples were logged on a chain of custody record form (see Appendix B).

Ground water samples from wells B-5, B-10 and B-12 also were collected for physicochemical and microbiological analyses.

2.4 SAMPLING EQUIPMENT CLEANING PROTOCOL

The submersible pump and hose system (Equipment) used to purge the wells prior to sampling was decontaminated between each purging activity using the following procedure:

- the Equipment was flushed in a solution of Alconox detergent and tap water; and
- the Equipment was flushed with tap water.

2.5 EFFLUENT HANDLING

All effluent generated during purging, sampling and equipment decontamination activities was sealed in labeled 55-gallon drums. The drums remain on the Montgomery Ward site pending proper disposal. Documentation regarding disposal of the effluent will be submitted at a later date.

3.0 ANALYTICAL TESTING

All samples were delivered for analytical testing to BC Analytical, a state certified hazardous waste testing laboratory (Certificate No. 1353) located in Concord, California. The samples were tested for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015, benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020, and total lead using EPA Method 7421. The results of the testing are shown in Table 3 along with the results from previous testing periods. The laboratory reports are contained in Appendix B. Figure 3 shows the testing results for TPH-G, BTEX and MTBE.

Physicochemical and/or microbiological analyses were conducted on ground water samples obtained from wells B-5, B-10 and B-12. Physicochemical analyses were conducted only on sample B-12, utilizing a HACH Spectrophotometric and ion-specific procedures. Microbiological analyses were performed on all samples utilizing standard plate count procedures on Trypticase Soy Agar (TSA, general/heterotrophic enumeration), and Minimal Salts Agar supplemented with 500 parts per million (ppm) gasoline as the sole carbon source (MS, selective degrader enumeration). Plates were incubated under aerobic conditions for four days at room temperature prior to enumeration. The results of these analyses are shown on Table 4.

4.0 DISCUSSION AND CONCLUSIONS

The water level in wells sampled this quarter, excluding Montgomery Ward well B-12, rose on average about 0.5 feet. The water rise in Montgomery Ward well B-12 (this well was formerly used for ground water extraction purposes) was higher given its diameter and construction standards. Generally, there was a slight increase in the BTEX concentrations detected in the water samples obtained from the Montgomery Ward wells. This is expected given that the source of contamination was from underground tanks formerly located on the site and that residual contamination (below levels at which County Health requires remediation) is present in capillary fringe soils. Under these circumstances, a rise in the water table of 0.5 feet will result in higher dissolved BTEX concentrations.

Conversely, on the Enea Properties sites where contamination is confined to the saturated zone, a rise in the water table typically results in lower BTEX concentrations. This is in fact what occurred at the Enea Properties sites.

The results of the physicochemical and microbiological analyses conducted on ground water samples obtained from Montgomery Ward wells B-5, B-10 and B-12 prior to and after installation of the ORC, show that installation of the ORC has not appreciably increased the indigenous microorganisms present in the subsurface capable of degrading the hydrocarbons. Therefore, it appears that continued use of the ORC may not be warranted. A recommendation regarding the continued use of ORC will be made after the results of the Second Quarter 1996 sampling event are available.

5.0 LIMITATION

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. This report has been prepared for Montgomery Ward Auto Service Center. The conclusions and recommendations included in this report are based on information contained or referenced herein, and our best judgment. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

6.0 MONTGOMERY WARD CERTIFICATION

I certify under penalty of perjury that, based upon the professional reputation of and the information supplied by the environmental consultant and laboratory who prepared or who participated in the preparation of this report, the information contained in this report and all attachments is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Montgomery Ward & Co., Incorporated

Ed Koberstein
Field Engineer
Montgomery Ward
1331 South Harbor Boulevard
Fullerton, CA 92632

3/29/96
Signature Date

JRC:EHL:SAB:sh

JRC WORD:1233M96A

TABLES

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 1 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|---------------|--|---|---------------------------|-------------------|-----------------------------------|
| B-5 | | | | | |
| | 340.05 | | | | |
| 04/16/92 | | 10.62 | - | 0.00 | 329.43 |
| 07/24/92 | | 11.91 | - | 0.00 | 328.14 |
| 10/22/92 | | 12.97 | - | 0.00 | 327.08 |
| 01/15/93 | | 12.97 | - | 0.00 | 327.08 |
| 04/15/93 | | 09.75 | - | 0.00 | 330.30 |
| 05/14/93 | | 10.07 | - | 0.00 | 329.98 |
| 07/14/93 | | 10.80 | - | 0.00 | 329.25 |
| 10/14/93 | | 12.08 | - | 0.00 | 327.97 |
| 01/13/94 | | 12.23 | - | 0.00 | 327.82 |
| 04/04/94 | | 11.30 | - | 0.00 | 328.75 |
| 07/05/94 | | 12.37 | - | 0.00 | 327.68 |
| 10/04/94 | | 13.04 | - | 0.00 | 327.01 |
| 01/18/95 | | 10.43 | - | 0.00 | 329.62 |
| 04/20/95 | | 09.70 | - | 0.00 | 330.35 |
| 07/27/95 | | 10.85 | - | 0.00 | 329.20 |
| 10/19/95 | | 12.08 | - | 0.00 | 327.97 |
| 01/11/96 | | 11.50 | - | 0.00 | 328.55 |
| B-10 | | | | | |
| | 339.70 | | | | |
| 04/16/92 | | | - | 0.00 | 329.38 |
| 07/24/92 | | 11.69 | - | 0.00 | 328.01 |
| 10/22/92 | | 12.67 | - | 0.00 | 327.03 |
| 01/15/93 | | 09.48 | - | 0.00 | 330.22 |
| 04/15/93 | | 09.49 | - | 0.00 | 330.21 |
| 05/14/93 | | 09.87 | - | 0.00 | 329.83 |
| 07/14/93 | | 10.64 | - | 0.00 | 329.06 |
| 10/14/93 | | 11.80 | - | 0.00 | 327.90 |
| 01/13/94 | | 11.94 | - | 0.00 | 327.76 |
| 04/04/94 | | 11.00 | - | 0.00 | 328.70 |
| 07/05/94 | | 12.08 | - | 0.00 | 327.62 |
| 10/04/94 | | 12.69 | - | 0.00 | 327.01 |
| 01/18/95 | | 09.89 | - | 0.00 | 329.81 |
| 04/20/95 | | 09.40 | - | 0.00 | 330.30 |
| 07/27/95 | | 10.55 | - | 0.00 | 329.15 |
| 10/19/95 | | 11.76 | - | 0.00 | 327.94 |
| 01/11/96 | | 11.19 | - | 0.00 | 328.51 |
| B-12 | | | | | |
| | 339.10 | | | | |
| 04/16/92 | | 09.95 | - | 0.00 | 329.15 |
| 07/24/92 | | 11.57 | - | 0.00 | 327.53 |
| 10/22/92 | | 12.82 | - | 0.00 | 326.28 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 2 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|---------------|--|---|------------------------------|----------------------|---|
| 01/15/93 | | 08.66 | - | 0.00 | 330.44 |
| 04/15/93 | | 08.70 | - | 0.00 | 330.40 |
| 05/14/93 | | 09.32 | - | 0.00 | 329.78 |
| 07/14/93 | | 09.95 | - | 0.00 | 329.15 |
| 10/14/93 | | 10.94 | - | 0.00 | 328.16 |
| 01/13/94 | | 11.28 | - | 0.00 | 327.82 |
| 04/04/94 | | 10.32 | - | 0.00 | 328.78 |
| 07/05/94 | | 19.25 | - | 0.00 | 319.85 |
| 10/04/94 | | 19.27 | - | 0.00 | 319.83 |
| 01/18/95 | | 10.99 | - | 0.00 | 328.11 |
| 04/20/95 | | 08.60 | - | 0.00 | 330.50 |
| 07/27/95 | | 14.62 | - | 0.00 | 324.48 |
| 10/19/95 | | 20.43 | - | 0.00 | 318.67 |
| 01/11/96 | | 10.39 | - | 0.00 | 328.71 |
| B-15 | | 340.62 | | | |
| 04/16/92 | | 11.09 | - | 0.00 | 329.53 |
| 07/24/92 | | 12.33 | - | 0.00 | 328.29 |
| 10/22/92 | | 13.25 | - | 0.00 | 327.37 |
| 01/15/93 | | 10.22 | - | 0.00 | 330.40 |
| 04/15/93 | | 10.26 | - | 0.00 | 330.36 |
| 05/14/93 | | 10.64 | - | 0.00 | 329.98 |
| 07/14/93 | | 11.35 | - | 0.00 | 329.27 |
| 10/14/93 | | 12.41 | - | 0.00 | 328.21 |
| 01/13/94 | | 12.59 | - | 0.00 | 328.03 |
| 04/04/94 | | 11.74 | - | 0.00 | 328.88 |
| 07/05/94 | | 12.86 | - | 0.00 | 327.76 |
| 10/04/94 | | 13.35 | - | 0.00 | 327.27 |
| 01/18/95 | | 10.71 | - | 0.00 | 329.91 |
| 04/20/95 | | 10.15 | - | 0.00 | 330.47 |
| 07/27/95 | | 11.30 | - | 0.00 | 329.32 |
| 10/19/95 | | 12.47 | - | 0.00 | 328.15 |
| 01/11/96 | | 11.86 | - | 0.00 | 328.76 |
| B-16 | | 339.82 | | | |
| 04/16/92 | | 10.63 | - | 0.00 | 329.19 |
| 07/24/92 | | 11.90 | - | 0.00 | 327.92 |
| 10/22/92 | | 12.88 | - | 0.00 | 326.94 |
| 01/15/93 | | 09.79 | - | 0.00 | 330.03 |
| 04/15/93 | | 09.83 | - | 0.00 | 329.99 |
| 05/14/93 | | 10.20 | - | 0.00 | 329.62 |
| 07/14/93 | | 10.92 | - | 0.00 | 328.90 |
| 10/14/93 | | 11.99 | - | 0.00 | 327.83 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 3 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|---------------|--|---|------------------------------|----------------------|---|
| 01/13/94 | | 12.16 | - | 0.00 | 327.66 |
| 04/04/94 | | 11.28 | - | 0.00 | 328.54 |
| 07/05/94 | | 12.28 | - | 0.00 | 327.54 |
| 10/04/94 | | 12.89 | - | 0.00 | 326.93 |
| 01/18/95 | | 10.21 | - | 0.00 | 329.61 |
| 04/20/95 | | 09.79 | - | 0.00 | 330.03 |
| 07/27/95 | | 10.85 | - | 0.00 | 328.97 |
| 10/19/95 | | 11.97 | - | 0.00 | 327.85 |
| 01/11/96 | | 11.43 | - | 0.00 | 328.39 |
| <hr/> | | | | | |
| MW-100 | | | | | |
| | 339.61 | | | | |
| 05/14/93 | | 10.34 | - | 0.00 | 329.27 |
| 07/14/93 | | 11.00 | - | 0.00 | 328.61 |
| 10/14/93 | | 12.12 | - | 0.00 | 327.49 |
| 01/13/94 | | 12.25 | - | 0.00 | 327.36 |
| 04/04/94 | | 11.36 | - | 0.00 | 328.25 |
| 07/05/94 | | 12.22 | - | 0.00 | 327.39 |
| 10/04/94 | | 12.88 | - | 0.00 | 326.73 |
| 01/18/95 | | 10.27 | - | 0.00 | 329.34 |
| 04/20/95 | | 10.00 | - | 0.00 | 329.61 |
| 07/27/95 | | 10.91 | - | 0.00 | 328.70 |
| 10/19/95 | | 11.95 | - | 0.00 | 327.66 |
| 01/11/96 | | 11.53 | - | 0.00 | 328.08 |
| <hr/> | | | | | |
| MW-101 | | | | | |
| | 338.54 | | | | |
| 05/14/93 | | 09.91 | - | 0.00 | 328.63 |
| 07/14/93 | | 10.38 | - | 0.00 | 328.16 |
| 10/14/93 | | 11.30 | - | 0.00 | 327.24 |
| 01/13/94 | | 11.21 | - | 0.00 | 327.33 |
| 04/04/94 | | 10.69 | - | 0.00 | 327.85 |
| 07/05/94 | | 11.39 | - | 0.00 | 327.15 |
| 10/04/94 | | 11.98 | - | 0.00 | 326.56 |
| 01/18/95 | | 09.84 | - | 0.00 | 328.70 |
| 04/20/95 | | 09.61 | - | 0.00 | 328.93 |
| 07/27/95 | | 10.27 | - | 0.00 | 328.27 |
| 10/19/95 | | 11.14 | - | 0.00 | 327.40 |
| 01/11/96 | | 10.83 | - | 0.00 | 327.71 |
| <hr/> | | | | | |
| MW-102 | | | | | |
| | 339.23 | | | | |
| 05/14/93 | | 09.60 | - | 0.00 | 329.63 |
| 07/14/93 | | 10.31 | - | 0.00 | 328.92 |
| 10/14/93 | | 11.57 | - | 0.00 | 327.66 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 4 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|----------------|--|---|---------------------------|-------------------|-----------------------------------|
| 01/13/94 | | 11.71 | - | 0.00 | 327.52 |
| 04/04/94 | | 10.83 | - | 0.00 | 328.40 |
| 07/05/94 | | 11.65 | - | 0.00 | 327.96 |
| 10/04/94 | | 12.36 | - | 0.00 | 326.87 |
| 01/18/95 | | 09.59 | - | 0.00 | 329.64 |
| 04/20/95 | | 09.27 | - | 0.00 | 329.96 |
| 07/27/95 | | 10.22 | - | 0.00 | 329.01 |
| 10/19/1995 (1) | | NM | - | 0.00 | NM |
| 01/11/96 | 338.44 | 10.13 | - | 0.00 | 328.31 |
| ENEA MW-1 | 335.84 | | | | |
| 10/14/93 | | 09.05 | - | 0.00 | 326.79 |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.36 | - | 0.00 | 327.48 |
| 07/05/94 | | 09.04 | - | 0.00 | 326.80 |
| 10/04/94 | | 09.66 | - | 0.00 | 326.18 |
| 01/18/95 | | 07.53 | - | 0.00 | 328.31 |
| 04/20/95 | | 07.41 | - | 0.00 | 328.43 |
| 07/27/95 | | 08.03 | - | 0.00 | 327.81 |
| 10/19/95 | | 08.82 | - | 0.00 | 327.02 |
| 01/11/96 | | 08.52 | - | 0.00 | 327.32 |
| ENEA MW-2 | 335.61 | | | | |
| 10/14/93 | | 08.90 | - | 0.00 | 326.71 |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.05 | - | 0.00 | 327.56 |
| 07/05/94 | | 08.84 | - | 0.00 | 326.77 |
| 10/04/94 | | 09.59 | - | 0.00 | 326.02 |
| 01/18/95 | | 07.01 | - | 0.00 | 328.60 |
| 04/20/95 | | 06.85 | - | 0.00 | 328.76 |
| 07/27/95 | | 07.65 | - | 0.00 | 327.96 |
| 10/19/95 | | 08.63 | - | 0.00 | 326.98 |
| 01/11/96 | | 08.22 | - | 0.00 | 327.39 |
| ENEA MW-3 | 336.93 | | | | |
| 10/14/93 | | 09.89 | - | 0.00 | 327.84 |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 09.19 | - | 0.00 | 327.74 |
| 07/05/94 | | 09.92 | - | 0.00 | 327.01 |
| 10/04/94 | | 10.56 | - | 0.00 | 326.37 |
| 01/18/95 | | 08.26 | - | 0.00 | 328.67 |
| 04/20/95 | | 08.09 | - | 0.00 | 328.84 |

TABLE 1
GROUND WATER ELEVATIONS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California

Page 5 of 5

| Date Measured | Elevation of top surface of PVC well casing (feet MSL) | Measured depth to ground water (feet bgs) | Measured depth to Product | Product Thickness | Ground water elevation (feet MSL) |
|--|--|---|---------------------------|-------------------|-----------------------------------|
| 07/27/95 | | 08.81 | - | 0.00 | 328.12 |
| 10/19/95 | | 09.68 | - | 0.00 | 327.25 |
| 01/11/96 | | 09.32 | - | 0.00 | 327.61 |
| ENEA MW-4 | 335.76 | | | | |
| 10/14/93 | | NI | - | 0.00 | NI |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.55 | - | 0.00 | 327.21 |
| 07/05/94 | | 09.15 | - | 0.00 | 326.61 |
| 10/04/94 | | 09.77 | - | 0.00 | 325.99 |
| 01/18/95 | | 07.79 | - | 0.00 | 327.97 |
| 04/20/95 | | 07.72 | - | 0.00 | 328.04 |
| 07/27/95 | | 08.24 | - | 0.00 | 327.52 |
| 10/19/95 | | 08.95 | - | 0.00 | 326.81 |
| 01/11/96 | | 08.70 | - | 0.00 | 327.06 |
| ENEA EW-1 | 336.08 | | | | |
| 10/14/93 | | NI | - | 0.00 | NI |
| 01/13/94 | | NM | - | 0.00 | NM |
| 04/04/94 | | 08.62 | - | 0.00 | 327.46 |
| 07/05/94 | | 09.28 | - | 0.00 | 326.80 |
| 10/04/94 | | 09.89 | - | 0.00 | 326.19 |
| 01/18/95 | | 07.76 | - | 0.00 | 328.32 |
| 04/20/95 | | 07.66 | - | 0.00 | 328.42 |
| 07/27/95 | | 08.27 | - | 0.00 | 327.81 |
| 10/19/95 | | 09.05 | - | 0.00 | 327.03 |
| 01/11/96 | | 08.75 | - | 0.00 | 327.33 |
| NOTES: | | | | | |
| (1) = Well MW-102 was not measured because the well was inaccessible due to street construction. | | | | | |
| NI | Not installed, NM - Not measured | | | | |
| MSL | Mean Sea Level | | | | |
| bgs | below ground surface | | | | |
| Depth to water is as measured from the cut notch at the top side of each PVC well casing. | | | | | |
| The elevations of all wells were surveyed in October 1993 to City of Dublin Benchmark No. DUB-680 (elevation=331.60 MSL), located along Dublin Boulevard, 0.60 miles easterly from San Ramon Road. | | | | | |
| All depth to water measurements were converted to MSL elevations using well casing elevation datum surveyed on 10/14/93. | | | | | |
| Wells B-5, B-12, B-15, B-16, MW-100, MW-101 and MW-102 are owned by Montgomery Ward and are associated with 7575 Dublin Blvd. | | | | | |
| Wells MW-1, MW-2, MW-3, MW-4 and EW-1 are owned by Enea Properties and are located at Amador Plaza Road and Dublin Boulevard. | | | | | |
| DTP:1233:ELEV.XLS | | | | | |

TABLE 2
DISSOLVED OXYGEN MEASUREMENTS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California
Milligrams per liter (mg/l)

Page 1 of 2

| Date Measured | At Water Surface | One foot bgs | Three feet bgs | Five feet bgs | Seven feet bgs |
|-------------------------|------------------|--------------|----------------|---------------|----------------|
| B-5 | | | | | |
| 10/19/95 | 1.68 | 0.69 | 0.23 | 0.13 | 0.12 |
| 01/11/96 | >20 | 1.59 | 0.48 | 0.25 | 0.21 |
| B-10 | | | | | |
| 10/19/95 | 2.77 | 0.56 | 0.43 | 0.76 | 0.18 |
| 01/11/96 | 2.96 | 0.29 | 0.18 | 0.17 | 0.16 |
| B-12 | | | | | |
| 10/19/95 | 5.86 | 0.42 | 0.09 | 0.03 | 0.00 |
| 01/11/96 | 9.02 | 0.87 | 0.25 | 0.12 | 0.11 |
| B-15 | | | | | |
| 10/19/95 | 6.15 | 1.63 | 0.85 | 0.17 | 0.18 |
| 01/11/96 | 4.81 | 1.01 | 0.85 | 0.77 | 0.30 |
| B-16 | | | | | |
| 10/19/95 | 0.91 | 0.21 | 0.13 | 0.09 | 0.12 |
| 01/11/96 | 2.57 | 0.46 | 0.28 | 0.27 | 0.26 |
| MW-100 | | | | | |
| 10/19/95 | 1.58 | 0.54 | 0.40 | 0.39 | 0.35 |
| 01/11/96 | 2.44 | 0.28 | 0.22 | 0.18 | 0.16 |
| MW-101 | | | | | |
| 10/19/95 | 3.38 | 2.38 | 1.90 | 1.12 | 0.70 |
| 01/11/96 | 5.40 | 1.32 | 1.24 | 1.26 | 0.87 |
| MW-102 | | | | | |
| 10/19/95 ⁽¹⁾ | NM | NM | NM | NM | NM |
| 01/11/96 | 7.78 | 0.57 | 0.20 | 0.16 | 0.11 |
| ENEA MW-1 | | | | | |
| 10/19/95 | 7.50 | 2.07 | 0.71 | 0.54 | 0.20 |
| 01/11/96 | 8.75 | 0.63 | 0.25 | 0.16 | 0.12 |
| ENEA MW-2 | | | | | |
| 10/19/95 | 4.63 | 1.27 | 0.34 | 0.28 | NM |
| 01/11/96 | 3.67 | 0.56 | 0.34 | 0.31 | NM |
| ENEA MW-3 | | | | | |
| 10/19/95 | 7.22 | 2.66 | 1.20 | 0.94 | 0.14 |
| 01/11/96 | 8.03 | 0.65 | 0.33 | 0.14 | 0.11 |
| ENEA MW-4 | | | | | |
| 10/19/95 | 4.04 | 0.95 | 0.45 | 0.27 | 0.36 |
| 01/11/96 | 4.60 | 0.50 | 0.19 | 0.16 | 0.15 |

TABLE 2
DISSOLVED OXYGEN MEASUREMENTS
Montgomery Ward Auto Service Center
Enea Properties
Dublin, California
Milligrams per liter (mg/l)

Page 2 of 2

| Date Measured | At Water Surface | One foot bgs | Three feet bgs | Five feet bgs | Seven feet bgs |
|---|------------------|--------------|----------------|---------------|----------------|
| ENEA EW-1 | | | | | |
| 10/19/95 | 5.42 | 1.10 | 0.36 | 0.22 | 0.09 |
| 01/11/96 | 5.55 | 0.76 | 0.22 | 0.17 | 0.13 |
| NOTES: | | | | | |
| (1) = Well MW-102 was not measured because the well was inaccessible due to street construction. | | | | | |
| NM - Not measured | | | | | |
| bgs - below ground surface | | | | | |
| Wells B-5, B-12, B-15, B-16, MW-100, MW-101 and MW-102 are owned by Montgomery Ward and are associated with 7575 Dublin Blvd. | | | | | |
| Wells MW-1, MW-2, MW-3, MW-4 and EW-1 are owned by Enea Properties and are located at Amador Plaza Road and Dublin Boulevard. | | | | | |
| K:1233:OXYGEN.XLS | | | | | |

TABLE 3
ANALYTICAL TESTING RESULTS
Montgomery Ward Auto Service Center
ENEA Properties
Dublin, California
Parts per billion (ppb)

Page 1 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead | MTBE |
|------------------|--------|---------|---------|--------------|---------|------|------|
| Well B-5 | | | | | | | |
| 04-16-92 | 4400 | 670 | 160 | 280 | 320 | ND | NA |
| 07-24-92 | 31000 | 5400 | 2600 | 2200 | 5800 | ND | NA |
| 10-22-92 | 9100 | 1100 | 190 | 520 | 740 | ND | NA |
| 01-15-93 | 2300 | 530 | 160 | 300 | 470 | 7.9 | NA |
| 04-15-93 | 4900 | 600 | 160 | 470 | 390 | ND | NA |
| 07-14-93 | 8800 | 590 | 210 | 840 | 1100 | 9.9 | NA |
| 10-14-93 | 4500 | 530 | 46 | 490 | 350 | ND | NA |
| 01-13-94 | 120 | 15 | 1.9 | 12 | 11 | ND | NA |
| 04-04-94 | 5700 | 450 | 39 | 350 | 400 | ND | NA |
| 07-05-94 | 2200 | 69 | 13 | 150 | 95 | ND | NA |
| 10-03-94 | 4700 | 190 | 38 | 510 | 570 | ND | NA |
| 01-18-95 | 2200 | 53 | 27 | 120 | 280 | ND | NA |
| 04-21-95 | 5800 | 90 | 74 | 300 | 910 | 4.0 | NA |
| 07-28-95 | 2600 | 57 | 26 | 190 | 570 | 2.5 | ND |
| 10-20-95 | 3400 | 27 | 15 | 210 | 530 | 4.2 | ND |
| 01-12-96 | 2100 | 37 | 12 | 130 | 320 | 7.5 | ND |
| Well B-10 | | | | | | | |
| 04-16-92 | 7300 | 1400 | 640 | 880 | 1100 | ND | NA |
| 07-24-92 | 27000 | 3800 | 1600 | 2000 | 4000 | ND | NA |
| 10-22-92 | 16000 | 2300 | 340 | 1100 | 1200 | ND | NA |
| 01-15-93 | 10000 | 1400 | 310 | 730 | 1100 | 13 | NA |
| 04-15-93 | 8100 | 580 | 270 | 810 | 580 | 19 | NA |
| 07-14-93 | 6400 | 840 | 120 | 750 | 800 | 7.1 | NA |
| 10-14-93 | 100000 | 720 | 120 | 930 | 1100 | ND | NA |
| 01-13-94 | 18000 | 990 | 180 | 1300 | 2400 | ND | NA |
| 04-04-94 | 12000 | 370 | 96 | 900 | 1800 | ND | NA |
| 07-05-94 | 7800 | 170 | 50 | 550 | 810 | ND | NA |
| 10-03-94 | 6300 | 120 | 33 | 480 | 630 | ND | NA |
| 01-18-95 | 3300 | 38 | 28 | 160 | 450 | 2.9 | NA |
| 04-21-95 | 4200 | 39 | 8.6 | 220 | 310 | ND | NA |
| 07-28-95 | 2900 | 22 | 4.3 | 140 | 330 | 2.0 | 55 |
| 10-20-95 | 1900 | 3.9 | 1.5 | 74 | 170 | ND | 13 |
| 01-12-96 | 3400 | 24 | 5.4 | 130 | 260 | 4.5 | 94 |
| Well B-12 | | | | | | | |
| 04-16-92 | 12000 | 1300 | 1100 | 510 | 1200 | ND | NA |
| 07-24-92 | 12000 | 1000 | 630 | 520 | 1000 | ND | NA |
| 10-22-92 | 11000 | 370 | 230 | 400 | 940 | ND | NA |
| 01-15-93 | 120 | 2.8 | ND | 1.6 | 3.6 | 11 | NA |
| 04-15-93 | 7100 | 730 | 240 | 350 | 570 | ND | NA |
| 07-14-93 | 4500 | 540 | 97 | 380 | 610 | ND | NA |
| 10-14-93 | 11000 | 710 | 170 | 650 | 1600 | ND | NA |
| 01-13-94 | 6000 | 330 | 100 | 330 | 620 | 24 | NA |
| 04-04-94 | 8700 | 350 | 58 | 350 | 660 | ND | NA |

TABLE 3

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 2 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead | MTBE |
|--------------------|-------|---------|---------|--------------|---------|------|------|
| 07-05-94 | 8800 | 250 | 340 | 370 | 920 | ND | NA |
| 10-03-94 | 1300 | 63 | 42 | 110 | 140 | ND | NA |
| 01-18-95 | 5000 | 93 | 65 | 190 | 510 | ND | NA |
| 04-21-95 | 14000 | 190 | 320 | 420 | 1500 | ND | NA |
| 07-28-95 | 10000 | 110 | 120 | 490 | 1500 | ND | ND |
| 10-20-95 | 1400 | 16 | 13 | 81 | 180 | ND | ND |
| 01-12-96 | 2900 | 23 | 3.6 | 130 | 240 | 7.0 | ND |
| Well B-15 | | | | | | | |
| 04-16-92 | 65 | 4.4 | 2.4 | 6.1 | 2.8 | ND | NA |
| 07-24-92 | ND | 3.6 | 1.5 | 3.1 | 1.6 | ND | NA |
| 10-22-92 | ND | 1.7 | 0.89 | 0.78 | 0.88 | ND | NA |
| 01-15-93 | ND | ND | ND | ND | ND | 13 | NA |
| 04-15-93 | ND | 2.8 | ND | 3.0 | 1.5 | ND | NA |
| 07-14-93 | ND | ND | ND | 0.57 | 0.74 | 7.8 | NA |
| 10-14-93 | ND | 0.96 | 2.6 | 1.3 | 3.6 | 25 | NA |
| 01-13-94 | ND | ND | 0.92 | 0.70 | 2 | ND | NA |
| 04-04-94 | ND | ND | ND | 0.56 | 1 | ND | NA |
| 07-05-94 | ND | ND | ND | ND | ND | ND | NA |
| 10-03-94 | ND | ND | ND | ND | ND | ND | NA |
| 01-18-95 | ND | ND | 0.69 | ND | 2.2 | ND | NA |
| 04-21-95 | ND | ND | 1.0 | ND | 2.5 | ND | NA |
| 07-28-95 | ND | ND | ND | ND | ND | ND | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |
| Well B-16 | | | | | | | |
| 04-16-92 | 1300 | 390 | 1.7 | 35 | 9.3 | ND | NA |
| 07-24-92 | 1600 | 120 | 5.7 | 120 | 410 | ND | NA |
| 10-22-92 | 1000 | 76 | ND | 55 | 130 | ND | NA |
| 01-15-93 | 160 | 6.5 | 0.86 | 2.3 | 2.6 | 5.5 | NA |
| 04-15-93 | 300 | 65 | ND | 13 | 2 | ND | NA |
| 07-14-93 | 170 | 5.9 | ND | 4.6 | 12 | ND | NA |
| 10-14-93 | 390 | 11 | 2.4 | 16 | 45 | 21 | NA |
| 01-13-94 | 350 | 8.7 | 0.62 | 25 | 68 | ND | NA |
| 04-04-94 | 550 | 8.7 | ND | 35 | 81 | ND | NA |
| 07-05-94 | 850 | 14 | 5.6 | 52 | 130 | ND | NA |
| 10-03-94 | 210 | 5.3 | ND | 26 | 5.8 | ND | NA |
| 01-18-95 | ND | ND | 0.94 | ND | 1.3 | 2.7 | NA |
| 04-21-95 | ND | ND | 0.66 | ND | ND | ND | NA |
| 07-28-95 | 57 | 0.71 | ND | 1.6 | 2.6 | ND | ND |
| 10-20-95 | 810 | 4.1 | ND | 22 | 100 | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |
| Well MW-100 | | | | | | | |
| 05-13-93 | 13000 | 83 | ND | 960 | 820 | NA | NA |
| 07-14-93 | 13000 | 32 | ND | 1400 | 790 | 8 | NA |

TABLE 3
ANALYTICAL TESTING RESULTS
Montgomery Ward Auto Service Center
ENEA Properties
Dublin, California
Parts per billion (ppb)

Page 3 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead | MTBE |
|-------------------------|-------|---------|---------|--------------|---------|------|------|
| 10-14-93 | 7500 | 48 | 16 | 900 | 520 | 22 | NA |
| 01-13-94 | 7000 | 51 | ND | 590 | 330 | ND | NA |
| 04-04-94 | 9800 | 69 | ND | 540 | 410 | ND | NA |
| 07-05-94 | 5900 | 31 | 8.7 | 190 | 190 | ND | NA |
| 10-03-94 | 3900 | ND | ND | 220 | 200 | ND | NA |
| 01-18-95 | 3700 | 48 | 31 | 190 | 120 | 2.8 | NA |
| 04-21-95 | 3100 | 10 | ND | 130 | 44 | ND | NA |
| 07-28-95 | 3300 | ND | ND | 100 | 42 | ND | ND |
| 10-20-95 | 2200 | ND | ND | 72 | 27 | ND | 15 |
| 01-12-96 | 1400 | ND | ND | 43 | 19 | ND | ND |
| Well MW-101 | | | | | | | |
| 05-13-93 | ND | ND | ND | ND | ND | NA | NA |
| 07-14-93 | ND | ND | ND | ND | ND | 11 | NA |
| 10-14-93 | ND | 0.65 | 0.89 | ND | 1.1 | ND | NA |
| 01-13-94 | ND | ND | ND | ND | ND | 28 | NA |
| 04-04-94 | ND | ND | ND | ND | ND | ND | NA |
| 07-05-94 | ND | ND | ND | ND | ND | ND | NA |
| 10-03-94 | ND | ND | ND | ND | ND | ND | NA |
| 01-18-95 | ND | ND | ND | ND | ND | 2.6 | NA |
| 04-21-95 | ND | ND | ND | ND | ND | ND | NA |
| 07-28-95 | ND | ND | ND | ND | ND | ND | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |
| Well MW-102 | | | | | | | |
| 05-13-93 | 3600 | 17 | ND | 130 | 63 | NA | NA |
| 07-14-93 | 1500 | 13 | ND | 64 | 4.9 | ND | NA |
| 10-14-93 | 24000 | 9.6 | 5.2 | 60 | 60 | ND | NA |
| 01-13-94 | 2000 | 22 | ND | 26 | 55 | ND | NA |
| 04-04-94 | 2100 | 16 | 2.5 | 15 | 35 | ND | NA |
| 07-05-94 | 1300 | 7 | 2.9 | 10 | 23 | ND | NA |
| 10-03-94 | 620 | 5.1 | ND | 5.2 | 11 | ND | NA |
| 01-18-95 | 440 | ND | ND | 3.0 | 5.3 | 3.7 | NA |
| 04-21-95 | 250 | ND | 0.78 | 0.96 | 0.63 | ND | NA |
| 07-28-95 | 140 | ND | ND | ND | 0.70 | ND | ND |
| 10-20-95 ^(a) | NS | NS | NS | NS | NS | NS | NS |
| 01-12-96 | 1500 | ND | ND | 0.68 | ND | ND | ND |
| ENEA MW-1 | | | | | | | |
| 10-14-93 | 5700 | 76 | 19 | 160 | 460 | ND | NA |
| 04-04-94 | 7000 | 27 | ND | 260 | 49 | ND | NA |
| 07-05-94 | 5100 | 23 | ND | 260 | 50 | ND | NA |
| 10-03-94 | 4400 | 8.1 | ND | 170 | 50 | ND | NA |
| 01-18-95 | 2000 | 7.1 | 2.4 | 47 | 5.5 | 2.2 | NA |
| 04-21-95 | 1400 | 2.9 | 9.0 | 22 | 1.2 | 5.8 | NA |

TABLE 3

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 4 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead | MTBE |
|------------------|-------|---------|---------|--------------|---------|------|------|
| 07-28-95 | 1100 | ND | ND | 14 | 1.4 | ND | 10 |
| 10-20-95 | 1700 | ND | 2.2 | 22 | 3.6 | ND | 23 |
| 01-12-96 | 920 | ND | ND | 9.9 | 2.2 | ND | ND |
| ENEA MW-2 | | | | | | | |
| 10-14-93 | ND | ND | ND | 1.1 | 0.71 | 21 | NA |
| 04-04-94 | ND | ND | ND | ND | ND | 21 | NA |
| 07-05-94 | ND | ND | ND | ND | ND | ND | NA |
| 10-03-94 | 590 | 1.1 | ND | 22 | 6.5 | ND | NA |
| 01-18-95 | ND | ND | ND | ND | ND | 2.4 | NA |
| 04-21-95 | ND | ND | ND | ND | ND | ND | NA |
| 07-28-95 | ND | ND | ND | ND | 0.57 | ND | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |
| ENEA MW-3 | | | | | | | |
| 10-14-93 | 2600 | 26 | 30 | 100 | 130 | ND | NA |
| 04-04-94 | 2600 | 13 | 3.4 | 90 | 140 | ND | NA |
| 07-05-94 | 3400 | 15 | 5 | 31 | 48 | ND | NA |
| 10-03-94 | 1400 | 6.3 | ND | 31 | 36 | ND | NA |
| 01-18-95 | 2300 | 5.1 | 1.6 | 2.9 | 18 | 2.1 | NA |
| 04-21-95 | 1900 | 5.3 | ND | 7.5 | 4.2 | ND | NA |
| 07-28-95 | 1400 | ND | ND | 5.5 | 1.5 | ND | 11 |
| 10-20-95 | 730 | ND | ND | 1.7 | ND | ND | ND |
| 01-12-96 | 370 | ND | ND | ND | ND | ND | ND |
| ENEA MW-4 | | | | | | | |
| 04-04-94 | ND | ND | ND | ND | ND | 23 | NA |
| 07-05-94 | ND | ND | 0.5 | ND | 0.62 | ND | NA |
| 10-03-94 | ND | ND | ND | ND | ND | ND | NA |
| 01-18-95 | ND | ND | 0.87 | ND | ND | 7.2 | NA |
| 04-21-95 | ND | ND | 1.7 | ND | ND | 2.8 | NA |
| 07-28-95 | ND | ND | ND | ND | ND | 2.9 | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |

NOTES:

(1) -Well MW-102 was not sampled because well was inaccessible due to street construction.

NA-Not Analyzed

ND-Not Detected

NS-Not Sampled

DTP:1233:ANALYTIC.DOC

TABLE 3
ANALYTICAL TESTING RESULTS
Montgomery Ward Auto Service Center
ENEA Properties
Dublin, California
Parts per billion (ppb)

Page 4 of 4

| Compounds | TPH-G | Benzene | Toluene | Ethylbenzene | Xylenes | Lead | MTBE |
|------------------|-------|---------|---------|--------------|---------|------|------|
| 07-28-95 | 1100 | ND | ND | 14 | 1.4 | ND | 10 |
| 10-20-95 | 1700 | ND | 2.2 | 22 | 3.6 | ND | 23 |
| 01-12-96 | 920 | ND | ND | 9.9 | 2.2 | ND | ND |
| ENEA MW-2 | | | | | | | |
| 10-14-93 | ND | ND | ND | 1.1 | 0.71 | 21 | NA |
| 04-04-94 | ND | ND | ND | ND | ND | 21 | NA |
| 07-05-94 | ND | ND | ND | ND | ND | ND | NA |
| 10-03-94 | 590 | 1.1 | ND | 22 | 6.5 | ND | NA |
| 01-18-95 | ND | ND | ND | ND | ND | 2.4 | NA |
| 04-21-95 | ND | ND | ND | ND | ND | ND | NA |
| 07-28-95 | ND | ND | ND | ND | 0.57 | ND | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |
| ENEA MW-3 | | | | | | | |
| 10-14-93 | 2600 | 26 | 30 | 100 | 130 | ND | NA |
| 04-04-94 | 2600 | 13 | 3.4 | 90 | 140 | ND | NA |
| 07-05-94 | 3400 | 15 | 5 | 31 | 48 | ND | NA |
| 10-03-94 | 1400 | 6.3 | ND | 31 | 36 | ND | NA |
| 01-18-95 | 2300 | 5.1 | 1.6 | 2.9 | 18 | 2.1 | NA |
| 04-21-95 | 1900 | 5.3 | ND | 7.5 | 4.2 | ND | NA |
| 07-28-95 | 1400 | ND | ND | 5.5 | 1.5 | ND | 11 |
| 10-20-95 | 730 | ND | ND | 1.7 | ND | ND | ND |
| 01-12-96 | 370 | ND | ND | ND | ND | ND | ND |
| ENEA MW-4 | | | | | | | |
| 04-04-94 | ND | ND | ND | ND | ND | 23 | NA |
| 07-05-94 | ND | ND | 0.5 | ND | 0.62 | ND | NA |
| 10-03-94 | ND | ND | ND | ND | ND | ND | NA |
| 01-18-95 | ND | ND | 0.87 | ND | ND | 7.2 | NA |
| 04-21-95 | ND | ND | 1.7 | ND | ND | 2.8 | NA |
| 07-28-95 | ND | ND | ND | ND | ND | 2.9 | ND |
| 10-20-95 | ND | ND | ND | ND | ND | ND | ND |
| 01-12-96 | NS | NS | NS | NS | NS | NS | NS |

NOTES:

- (1) -Well MW-102 was not sampled because well was inaccessible due to street construction.
- NA-Not Analyzed
- ND-Not Detected
- NS-Not Sampled

DTP.I233:ANALYTIC.DOC

TABLE 4

PHYSICOCHEMICAL AND MICROBIOLOGICAL RESULTS

Montgomery Ward Auto Service Center
Dublin, California

Page 1 of 1

| Parameter | pH | Nitrate (ppm) | Nitrite (ppm) | Ammonium (ppm) | Phosphate (ppm) | GME | SME | %BIO |
|------------------|-----|------------------|------------------|-------------------|--------------------|------|------|------|
| Well B-5 | | | | | | | | |
| 10-20-95 | NA | NA | NA | NA | NA | 2.4 | 0.23 | 9.6 |
| 01-12-96 | NA | NA | NA | NA | NA | 0.88 | 0.05 | 5.7 |
| Well B-10 | | | | | | | | |
| 10-20-95 | NA | NA | NA | NA | NA | 13 | 0.02 | 1.5 |
| 01-12-96 | NA | NA | NA | NA | NA | 1.6 | 0.04 | 2.5 |
| Well B-12 | | | | | | | | |
| 10-20-95 | 6.9 | 2.6 | ND | 0.17 | 0.2 | 2.8 | 0.11 | 3.9 |
| 01-12-96 | 7.1 | 0.2 | 0.3 | 1.6 | 5.2 | 9.9 | 0.27 | 2.7 |

NOTES:

GME-Gen. Microb. Enumeration (Colony forming units (Viable cells) X10⁵/ml)

NA-Not Analyzed

ND-Not Detected at detection limit of 0.1 ppm

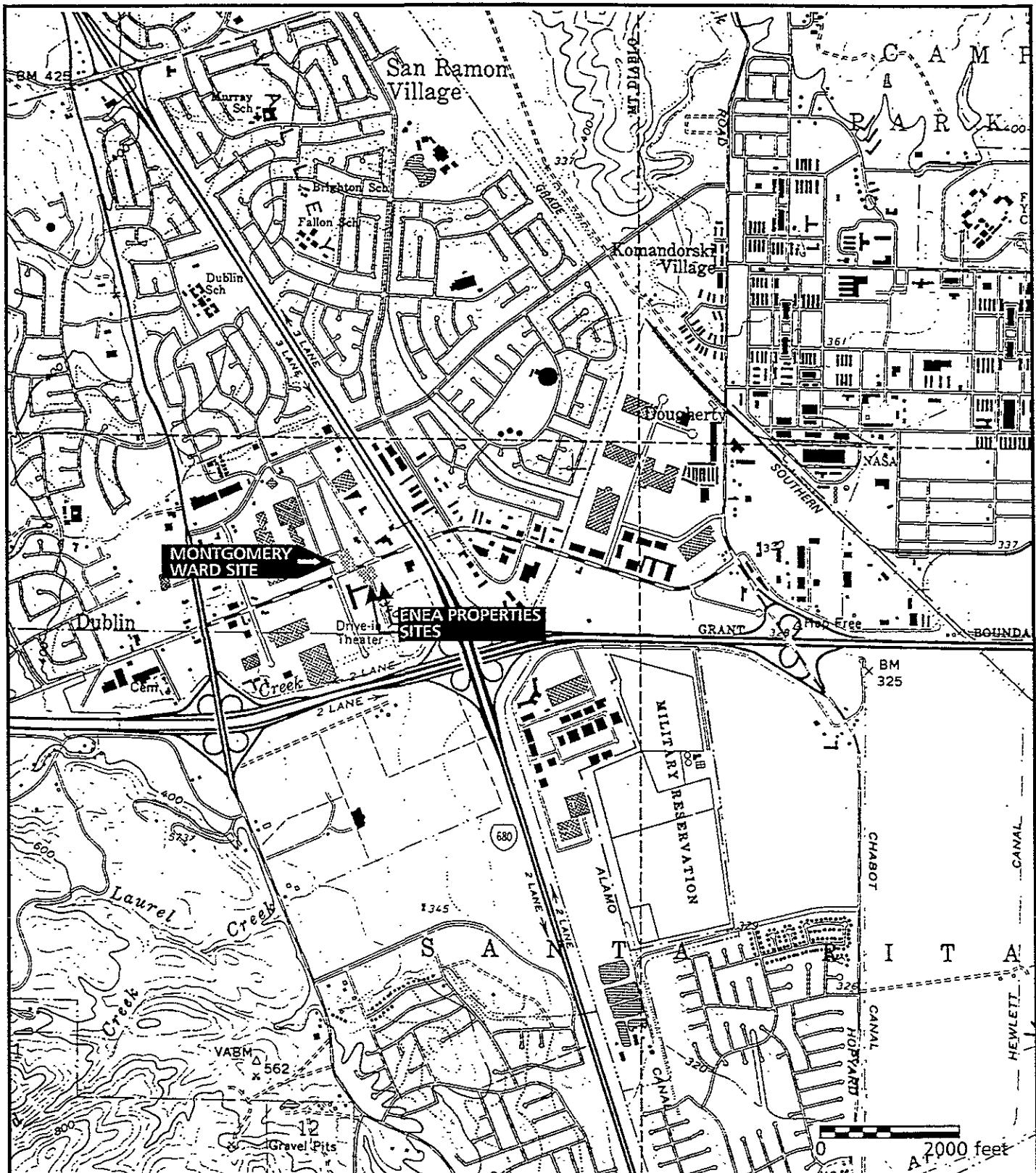
ppm -Parts per million

SME-Sel. Microb. Enumeration (Colony forming units (Viable cells) X 10⁵/ml)

%BIO-Percent Biodegraders

DTP.1233:BIOLRES.DOC

FIGURES



Environmental Audit, Inc.

LOCATION MAP

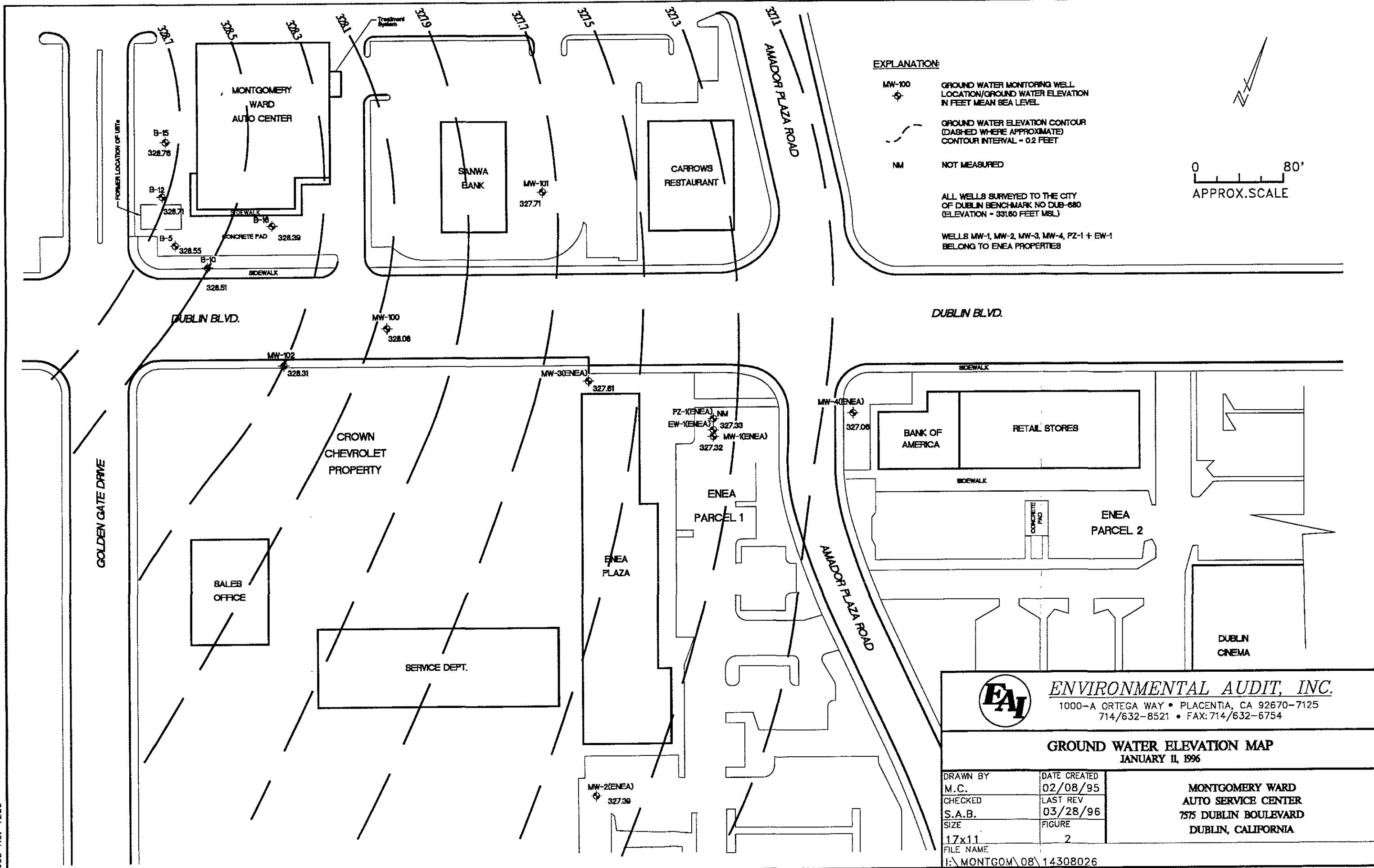
**Montgomery Ward Auto Service Center
Enea Properties
Dublin, California**

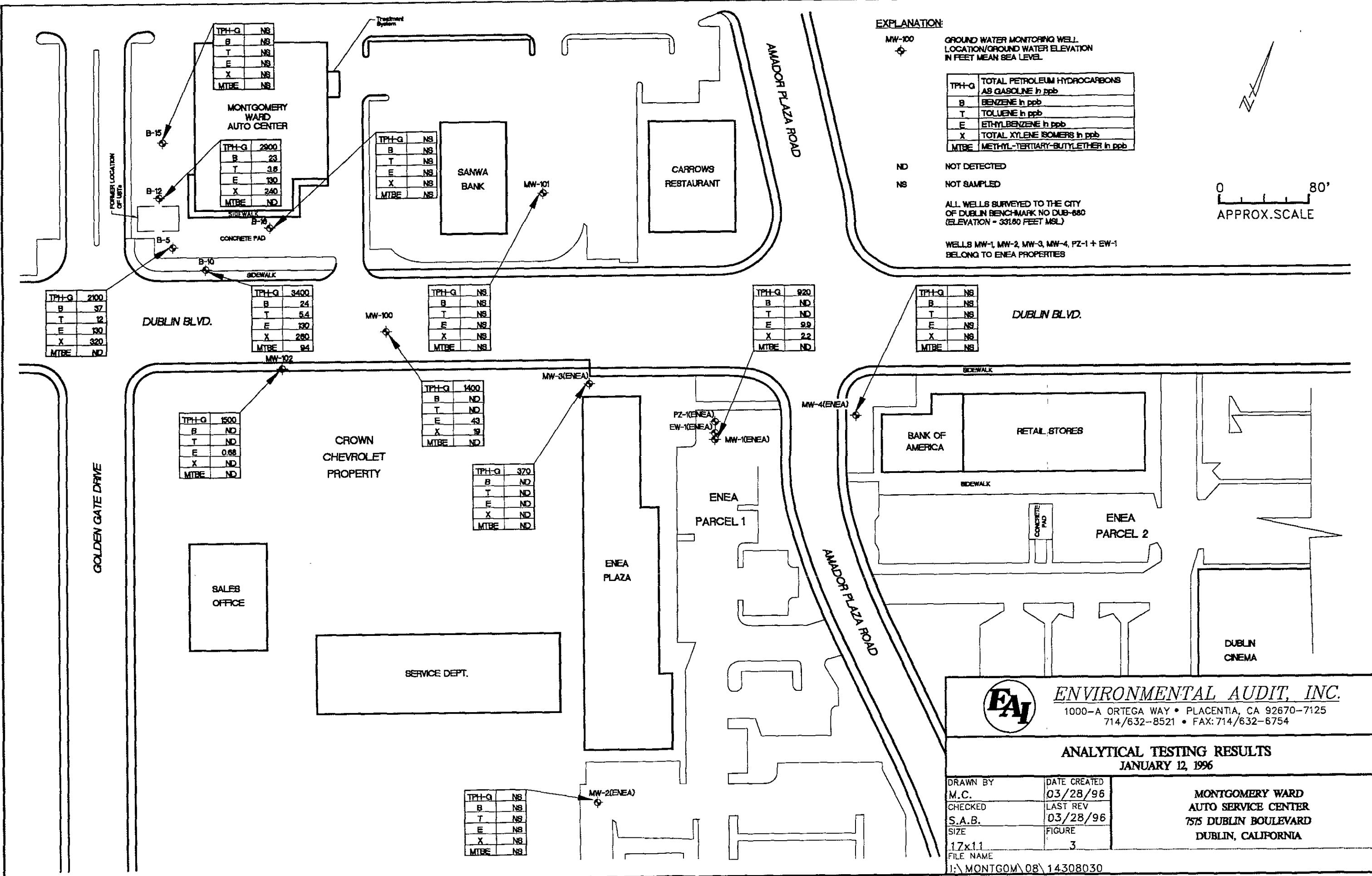
SOURCE: USGS TOPOGRAPHIC 7.5 MINUTE SERIES
DUBLIN, CALIFORNIA QUADRANGLE

Project No. 1233
K:1233:1233-LM.CDR



Figure 1





APPENDIX A: GROUND WATER SAMPLING LOG FORMS

GROUND WATER Sampling Log



ENVIRONMENTAL AUDIT, INC.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

| | |
|-------------------------|-------------------------|
| DATE: | 1/12 1966 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward, Dublin |
| WELL NO.: | 6-1C |
| WELL DIAMETER (INCHES): | 2" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bgs)

DEPTH TO FREE
PRODUCT (ft. bgs)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |

PURGETIME (hrs.):

START 7:44

STOP

7:50

1.41
ONECASTING
VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL:

WhaleSupersub921

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.):

8.25

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL : Voss Technologies Disposable

COMMENTS:

GROUND WATER Sampling Log



ENVIRONMENTAL AUDIT, INC.

*Planning, Environmental Analyses and Hazardous
Substances Management and Remediation*

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

(714) 632 - 8521

(714) 632 - 6754

| | |
|-------------------------|-------------------------|
| DATE: | 1/12/96 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward, Dublin |
| WELL NO.: | B-12 |
| WELL DIAMETER (INCHES): | 15" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF WELL (ft.)

NM

DEPTH TO WATER LEVEL (ft. bgs)

10.39

DEPTH TO FREE PRODUCT (ft. bgs)

—

WELL VOLUME FACTORS

| WELL CASING ID (inches) | VOLUME FACTOR |
|-------------------------|---------------|
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |
| 15 | 9.18 |

→ NM 9.18 = NM

X WELL VOLUME VOLUME FACTOR = ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.):

START 8:55

STOP 9:25

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL:

Whale Supersub 921

| GALLONS PURGED | TEMP (°F) | CONDUCTIVITY (Micro-ohms/cm) x 10 ² | pH | TURBIDITY (NTU) | DISSOLVED OXYGEN | REMARKS |
|----------------|-----------|--|------|-----------------|------------------|---------|
| 10 | 50.0 | 3.44 x 10 ² | 7.37 | 3.91 | | |
| 20 | 52.1 | 5.60 x 10 ² | 7.37 | 4.14 | | |
| 30 | 56.0 | 5.61 x 10 ² | 7.37 | 3.51 | | |
| 40 | 60.5 | 7.88 x 10 ² | 7.24 | 2.66 | | |
| 50 | 60.8 | 5.97 x 10 ² | 7.32 | 4.45 | | |
| 60 | 62.1 | 6.03 x 10 ² | 7.32 | 3.63 | | |
| 70 | 61.1 | 8.14 x 10 ² | 7.22 | 2.73 | | |
| 80 | 62.6 | 8.15 x 10 ² | 7.22 | 2.28 | | |
| 90 | 61.8 | 8.21 x 10 ² | 7.22 | 2.18 | | |
| 100 | 60.7 | 8.54 x 10 ² | 7.21 | 2.37 | | |
| 110 | 62.0 | 8.40 x 10 ² | 7.23 | 2.30 | | |

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

9:45

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL:

Voss Technologies Disposable

COMMENTS:

GROUND WATER Sampling Log



ENVIRONMENTAL AUDIT, INC.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

| | |
|-------------------------|-------------------------|
| DATE: | 1/12 196 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward, Dublin |
| WELL NO.: | MW 130 |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

**TOTAL DEPTH OF
WELL (ft.)**

DEPTH TO WATER
LEVEL (ft. bgs)

DEPTH TO FREE
PRODUCT (ft. bgs)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |

PURGETIME(hrs.):

START 10:30

STOP

10:55

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL:

WhaleSupersub 921

| GALLONS PURGED | TEMP (°F) | CONDUCTIVITY (Micro-ohms/cm) x 10 <input type="checkbox"/> | pH | TURBIDITY (NTU) | DISSOLVED OXYGEN | REMARKS |
|----------------|-----------|--|------|-----------------|------------------|---------|
| 5 | 74.0 | 1.04×10^3 | 7.35 | 20.2 | | |
| 10 | 64.6 | 1.22×10^3 | 7.25 | 6.17 | | |
| 15 | 65.2 | 1.19×10^3 | 7.19 | 5.22 | | |
| 20 | 64.8 | 1.22×10^3 | 7.13 | 6.34 | | |
| 25 | 65.6 | 1.23×10^3 | 7.22 | 7.64 | | |
| 30 | 65.8 | 1.21×10^3 | 7.16 | 4.90 | | |
| 35 | 64.8 | 1.21×10^3 | 7.28 | 4.03 | | |
| 40 | 64.7 | 1.20×10^3 | 7.35 | 3.91 | | |
| 45 | 65.0 | 1.21×10^3 | 7.37 | 3.50 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.):

1123

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL : Voss Technologies Disposable

COMMENTS:

GROUND WATER Sampling Log



ENVIRONMENTAL AUDIT, INC.

Planning Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

| | |
|-------------------------|-------------------------|
| DATE: | 1/12 196 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward, Dublin |
| WELL NO.: | ENEL 111-1 |
| WELL DIAMETER (INCHES): | 2 1/2" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bgs)

DEPTH TO FREE
PRODUCT (ft. bgs³)

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.11 | 0.65 |
| 6.0 | 1.47 |

PURGETIME(hrs.):

START 11:40

STOP 11:57

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL:

Whale Supersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

12:05

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL : Voss Technologies Disposable

COMMENTS:

GROUND WATER Sampling Log



ENVIRONMENTAL AUDIT, INC.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

| | |
|-------------------------|-------------------------|
| DATE: | 1/12 1966 |
| PROJECT NO.: | 1233 |
| CLIENT: | Montgomery Ward, Dublin |
| WELL NO.: | EVER W-17 |
| WELL DIAMETER (INCHES): | 4" |
| SAMPLED BY: | AH/JRC |

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF
WELL (ft.)

DEPTH TO WATER
LEVEL (ft. bogs)

**DEPTH TO FREE
PRODUCT (ft. lbs.)**

| WELL VOLUME FACTORS | |
|-------------------------|---------------|
| WELL CASING ID (inches) | VOLUME FACTOR |
| 2.0 | 0.16 |
| 4.0 | 0.65 |
| 6.0 | 1.47 |

PURGETIME(hrs.):

START

11:413

STOP

11:58

3.76
ONE CASING
VOLUME OF WATER (GALLONS)

METHOD: DOWN

DEDICATED PUMP □

BAUER

OTHER

TYPE/MODEL:

WholeSupersub 921

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):

12:15

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL:

Voss Technologies Disposable

COMMENTS:-

**APPENDIX B: CHAIN OF CUSTODY RECORD FORMS
AND
LABORATORY REPORTS**



ENVIRONMENTAL AUDIT, INC.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

Chain of Custody Record

PAGE 1 of 1

| ENVIRONMENTAL AUDIT, INC.® | | | | | | | | | | Chain of Custody Record | | | | | | | | | | | | | | | | | | | |
|---|-----------------|--|--------------|-----------------------------|-----------------------------|--|--|-------|---------|--|-------|--------------------|-------|------|--|----------|--------------|--------------------|------|--|----------------------|---|--|--|---|--|--|--|--|
| Planning, Environmental Analyses and Hazardous Substances Management and Remediation | | | | | | | | | | SAMPLING REQUIREMENTS: RCRA <input type="checkbox"/> NPDES <input type="checkbox"/> SDWA <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| 1000 ORTEGA WAY, SUITE A (714) 632 - 8521 PLACENTIA, CA 92670-7125 FAX (714) 632 - 6754 | | | | | | | | | | WRITTEN OC REPORT ROUTINE OC <input checked="" type="checkbox"/> RWQCB OC <input type="checkbox"/> | | | | | TURNAROUND TIME: SAME DAY <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| PROJECT NO. 1233 | | PROJECT NAME Montgomery Ward-Dublin | | | | | | | | CONTR TYPE | | ANALYSES REQUESTED | | | | | | | | REMARKS | | | | | | | | | |
| SAMPLER (Signature with Printed Name) <i>John R. Ambriex</i> | | PROJECT MANAGER Ed Leonhardt | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE 1/12/96 | TIME 8:45 | COMP GRAB | SAMPLE DESCRIPTION Water | | | | Glass | Plastic | Brass/Tube | TPH-D | TPH-G | TPH-H | BTEX | VOC 8240 | EOC 8270 | Oil & Grease | CAM Metals Tot Wet | Lead | H VOC 8010 | NUMBER OF CONTAINERS | One 1-liter plastic bottle (lead) Two 40-ml VOA vials (TPH-G/BTEX) | | | | | | | |
| B-12 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| B-5 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| B-10 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| MW-102 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| MW-103 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| Enea MW-1 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| Enea MW-3 | | | / | | | | | / | / | / | / | / | / | / | / | / | / | / | / | / | 3 | | | | | | | | |
| | | | | | | | | | | TOTAL NUMBER OF CONTAINERS: 21 | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature/Name) <i>John R. Ambriex</i> | | | | | DATE/TIME: 1/12/96 13:15 | | | | | RECEIVED BY: (Signature/Name) <i>Bob Leonhardt</i> | | | | | RELINQUISHED BY: (Signature/Name) <i>Bob Leonhardt</i> | | | | | DATE/TIME: 1/13/96 13:15 | | | | | RECEIVED BY: (Signature/Name) <i>John R. Ambriex</i> | | | | |
| RELINQUISHED BY: (Signature/Name) <i>John R. Ambriex</i> | | | | | DATE/TIME: 1/15/96 17:00 | | | | | RECEIVED BY: (Signature/Name) <i>Bob Leonhardt</i> | | | | | RELINQUISHED BY: (Signature/Name) <i>Bob Leonhardt</i> | | | | | DATE/TIME: 1/15/96 17:00 | | | | | RECEIVED BY: (Signature/Name) <i>John R. Ambriex</i> | | | | |
| SAMPLE SHIPPED VIA: FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> AIRBORNE <input type="checkbox"/> HAND <input type="checkbox"/> AIRFREIGHT <input type="checkbox"/> | | | | | | | | | | SHIPPED BY: (Signature/Name) AIRMAIL #: | | | | | | | | | | COURIER: (Signature/Name) LAB: <input type="checkbox"/> | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ANALYTICAL REPORT

B C Analytical

1085 Shary Circle
 Concord, CA 94518
 510/825-3894
 Fax: 510/825-3924

LOG NO: G96-01-218

AMENDED REPORT

 Received: 12 JAN 96
 Mailed : 21 JAN 96

Mr. Ed Leonhardt
 Environmental Audit
 1000 A Ortega Way
 Placentia, California 92670

J. Walker RECEIVED

FEB 13 1996

ENVIRONMENTAL AUDIT Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 1

| LOG NO | SAMPLE DESCRIPTION, AQUEOUS SAMPLES | DATE SAMPLED | | | | |
|-----------------------------------|-------------------------------------|--------------|----------|----------|----------|----------|
| PARAMETER | | 01-218-1 | 01-218-2 | 01-218-3 | 01-218-4 | 01-218-5 |
| Lead (7421), mg/L | | 0.0070 | 0.0075 | .0.0045 | <0.002 | <0.002 |
| Furnace Digestion (3020), Date | 01/17/96 | 01/17/96 | 01/17/96 | 01/17/96 | 01/17/96 | 01/17/96 |
| GRO (8015M.TX) | | | | | | |
| Date Analyzed | 01/18/96 | 01/18/96 | 01/18/96 | 01/18/96 | 01/18/96 | 01/18/96 |
| Dilution Factor, Times | 1 | 5 | 1 | 1 | 1 | 1 |
| Benzene, ug/L | 23 | 37 | 24 | <0.5 | <0.5 | <0.5 |
| Toluene, ug/L | 3.6 | 12 | 5.4 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene, ug/L | 130 | 130 | 130 | 0.68 | 13 | 13 |
| Methyl-tert-butylether, ug/L | <50 | <250 | 94 | <50 | <50 | <50 |
| Total Xylene Isomers, ug/L | 240 | 320 | 260 | <0.5 | 19 | 19 |
| Carbon Range, . | C6-C12 | C6-C12 | C6-C12 | C6-C12 | C6-C12 | C6-C12 |
| TPH (Gasoline Range), ug/L | 2900 | 2100 | 3400 | 1500 | 1400 | |
| Surrogates ** | | | | | | |
| a,a,a-Trifluorotoluene Rep., ug/L | 44.1 | 266 | 40.8 | 53.7 | 36.7 | |
| a,a,a-Trifluorotoluene Th., ug/L | 50.0 | 250 | 50.0 | 50.0 | 50.0 | |

BCA

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G96-01-218

Received: 12 JAN 96
Mailed : 24 JAN 96

Mr. Ed Leonhardt
Environmental Audit
1000 A Ortega Way
Placentia, California 92670

Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 2

| LOG NO | SAMPLE DESCRIPTION, AQUEOUS SAMPLES | DATE SAMPLED | |
|-----------------------------------|-------------------------------------|--------------|-----------|
| 01-218-6 | Enea MW-1 | | 12 JAN 96 |
| 01-218-7 | Enea MW-3 | | 12 JAN 96 |
| PARAMETER | | 01-218-6 | 01-218-7 |
| Lead (7421), mg/L | | <0.002 | <0.002 |
| Furnace Digestion (3020), Date | | 01/17/96 | 01/17/96 |
| GRO (8015M.TX) | | | |
| Date Analyzed | | 01/19/96 | 01/19/96 |
| Dilution Factor, Times | | 1 | 1 |
| Benzene, ug/L | | <0.5 | <0.5 |
| Toluene, ug/L | | <0.5 | <0.5 |
| Ethylbenzene, ug/L | | 9.9 | <0.5 |
| Methyl-tert-butylether, ug/L | | <50 | <50 |
| Total Xylene Isomers, ug/L | | 2.2 | <0.5 |
| Carbon Range, . | | C6-C12 | C6-C12 |
| TPH (Gasoline Range), ug/L | | 920 | 370 |
| Surrogates ** | | | |
| a,a,a-Trifluorotoluene Rep., ug/L | | 44.4 | 46.8 |
| a,a,a-Trifluorotoluene Th., ug/L | | 50.0 | 50.0 |

BCA

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G96-01-218

Received: 12 JAN 96
Mailed : 24 JAN 96

Mr. Ed Leonhardt
Environmental Audit
1000 A Ortega Way
Placentia, California 92670

Project: 1233

REPORT OF ANALYTICAL RESULTS

Page 3

Amended report issued to report MTBE results.
J. Winter, 2/1/96

Jane Winter, Jr.
Jane Freemyer, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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: ORDER PLACED FOR CLIENT: Environmental Audit 9601218 :
: BC ANALYTICAL : GLEN LAB : 12:51:42 24 JAN 1996 - P. 1 :
=====

SAMPLES... SAMPLE DESCRIPTION.. DETERM..... DATE..... METHOD..... EQUIP. BATCH.. ID.NO
ANALYZED

| | | | | | | | |
|-----------|-----------|---------------|----------|----------|--------|-------|------|
| 9601218*1 | B-12 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.18.96 | 8015M.TX | 536-35 | 96412 | 8501 |
| 9601218*2 | B-5 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.18.96 | 8015M.TX | 536-35 | 96412 | 8501 |
| 9601218*3 | B-10 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.18.96 | 8015M.TX | 536-35 | 96412 | 8501 |
| 9601218*4 | MW-102 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.18.96 | 8015M.TX | 536-35 | 96412 | 8501 |
| 9601218*5 | MW-100 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.18.96 | 8015M.TX | 536-35 | 96412 | 8501 |
| 9601218*6 | Enea MW-1 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.18.96 | 8015M.TX | 536-35 | 96412 | 8501 |
| 9601218*7 | Enea MW-3 | PB,GFA | 01.19.96 | 7421 | 534-04 | 9681 | 8488 |
| | | DIG,AQ,GFA | 01.17.96 | 3020 | | 9681 | 7620 |
| | | GAS.BTX.TESNC | 01.19.96 | 8015M.TX | 536-35 | 96412 | 8501 |

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9601218

DATE REPORTED : 01/24/96

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER | | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY |
|-----------------------------|------------|------------------|-----------------|--------------|--------------|------|---------------------|
| 1. Lead | C6011973*1 | 01.19.96 | 9681 | 0.0470 | 0.0500 | mg/L | 94 |
| 2. Lead | C6011974*1 | 01.19.96 | 9681 | 0.0477 | 0.0500 | mg/L | 95 |
| 3. BTEX/GRO | | C6012401*1 | | | | | |
| Date Analyzed | | 01.18.96 | 96412 | 01/18/96 | 01/18/96 | Date | N/A |
| Benzene | | 01.18.96 | 96412 | 19.1 | 15.2 | ug/L | 125 |
| Toluene | | 01.18.96 | 96412 | 88.5 | 97.4 | ug/L | 91 |
| Ethylbenzene | | 01.18.96 | 96412 | 17.8 | 20.4 | ug/L | 87 |
| Total Xylene Isomers | | 01.18.96 | 96412 | 98.8 | 119 | ug/L | 83 |
| TPH (Gasoline Range) | | 01.18.96 | 96412 | 1040 | 1100 | ug/L | 95 |
| a,a,a-Trifluorotoluene Rep. | | 01.18.96 | 96412 | 57.1 | 50.0 | ug/L | 114 |
| a,a,a-Trifluorotoluene Th. | | 01.18.96 | 96412 | 50.0 | 50.0 | ug/L | 100 |

BC ANALYTICAL

ORDER QC REPORT FOR G9601218

DATE REPORTED : 01/24/96

Page 1

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

| PARAMETER | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | LC1 RESULT | LC2 RESULT | UNIT | RELATIVE % DIFF |
|-----------|------------------|------------------|-----------------|---------------|---------------|------|--------------------|
| 1. Lead | | 01.19.96 | 9681 | 0.0470 | 0.0477 | mg/L | 1 |

BC ANALYTICAL

ORDER QC REPORT FOR G9601218

DATE REPORTED : 01/24/96

Page 1

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

| PARAMETER | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS % | MSD % | TRUE RESULT | UNIT |
|-----------------------------|---------------|---------------|--------------|------|-------|-------------|------|
| 1. Lead | 9601233*1 | 01.19.96 | 9681 | 105 | 107 | 0.0200 | mg/L |
| 2. GRO | 9601232*4 | | | | | | |
| Benzene | | 01.18.96 | 96412 | 88 | 91 | 15.2 | ug/L |
| Toluene | | 01.18.96 | 96412 | 88 | 87 | 97.4 | ug/L |
| Ethylbenzene | | 01.18.96 | 96412 | 85 | 83 | 20.4 | ug/L |
| Total Xylene Isomers | | 01.18.96 | 96412 | 82 | 79 | 119 | ug/L |
| TPH (Gasoline Range) | | 01.18.96 | 96412 | 93 | 91 | 1780 | ug/L |
| a,a,a-Trifluorotoluene Rep. | | 01.18.96 | 96412 | 117 | 117 | 50.0 | ug/L |
| a,a,a-Trifluorotoluene Th. | | 01.18.96 | 96412 | 100 | 100 | 50.0 | ug/L |

BC ANALYTICAL

ORDER QC REPORT FOR G9601218

DATE REPORTED : 01/24/96

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

| PARAMETER | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|-----------------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. Lead | 9601233*1 | 01.19.96 | 9681 | 0.0209 | 0.0213 | mg/L | 2 |
| 2. BTEX/GRO | 9601232*4 | | | | | | |
| Date Analyzed | | 01.18.96 | 96412 | 01/18/96 | 01/18/96 | Date | N/A |
| Benzene | | 01.18.96 | 96412 | 13.3 | 13.8 | ug/L | 4 |
| Toluene | | 01.18.96 | 96412 | 85.6 | 85.2 | ug/L | 0 |
| Ethylbenzene | | 01.18.96 | 96412 | 17.4 | 16.9 | ug/L | 3 |
| Total Xylene Isomers | | 01.18.96 | 96412 | 97.0 | 94.2 | ug/L | 3 |
| TPH (Gasoline Range) | | 01.18.96 | 96412 | 1700 | 1680 | ug/L | 1 |
| a,a,a-Trifluorotoluene Rep. | | 01.18.96 | 96412 | 58.4 | 58.3 | ug/L | 0 |
| a,a,a-Trifluorotoluene Th. | | 01.18.96 | 96412 | 50.0 | 50.0 | ug/L | 0 |

BC ANALYTICAL

ORDER QC REPORT FOR G9601218

DATE REPORTED : 01/24/96

Page 1

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER | | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT | METHOD |
|-----------------------------|------------|------------------|-----------------|-----------------|-------|------|--------|
| 1. Lead | B6011023*1 | 01.19.96 | 9681 | 0 | 0.002 | mg/L | 7421 |
| 2. BTEX/GRO | B6011242*1 | | | | | | |
| Date Analyzed | | 01.18.96 | 96412 | 01/18/96 | NA | Date | 8015M |
| Benzene | | 01.18.96 | 96412 | 0 | 0.3 | ug/L | 8015M |
| Toluene | | 01.18.96 | 96412 | 0 | 0.3 | ug/L | 8015M |
| Ethybenzene | | 01.18.96 | 96412 | 0 | 0.3 | ug/L | 8015M |
| Total Xylene Isomers | | 01.18.96 | 96412 | 0 | 0.6 | ug/L | 8015M |
| TPH (Gasoline Range) | | 01.18.96 | 96412 | 0 | 100 | ug/L | 8015M |
| a,a,a-Trifluorotoluene Rep. | | 01.18.96 | 96412 | 42.9 | 0.5 | ug/L | 8015M |
| a,a,a-Trifluorotoluene Th. | | 01.18.96 | 96412 | 50.0 | NA | ug/L | 8015M |