

ENVIRONMENTAL AUDIT, INC.®

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See
8/30

August 25, 1994

Project No. 1233

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services
Department of Environmental Health
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, #200
Oakland, CA 94621

ALCO
HAZMAT
94 AUG 30 AM 8:56

**RE: THIRD QUARTER 1994 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, Third Quarter 1994, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California," dated August 25, 1994.

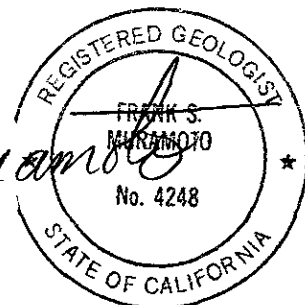
Please call the undersigned if you have any questions or need additional information.

Sincerely,

ENVIRONMENTAL AUDIT, INC.

Christopher P.R. d'Sa, R.E.A.
Project Geologist

Frank S. Muramoto, R.G.
Senior Geologist



CPD:FSM:SAB:sss

enclosure

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

CHRIS 1233M94C DOC (c)

**QUARTERLY GROUND WATER
MONITORING REPORT**

**Third Quarter 1994
Montgomery Ward Auto Service Center
7575 Dublin Boulevard
Dublin, California**

August 25, 1994

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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CHRIS 1233M94C DOC (b)

**GROUND WATER MONITORING REPORT
THIRD QUARTER 1994
Montgomery Ward Auto Service Center
7575 Dublin Boulevard
Dublin, California**

1.0 INTRODUCTION

This document constitutes the third quarter 1994 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 being operated at the site. Ground water is being extracted from well B-12 (see Figure 2). All other wells 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, the ground water monitoring wells at the Enea Properties site (Enea Properties) located immediately south of the intersection of Amador Plaza Road and Dublin Boulevard were also gauged and sampled as part of this quarter's monitoring activities.

2.0 FIELD INVESTIGATION

2.1 GROUND WATER ELEVATION SURVEY

On July 5, 1994, Environmental Audit, Inc. obtained ground water depth measurements from the wells associated with the site and the Enea Properties using an Oil Recovery Systems' interface probe accurate to 0.01 feet. No free-product was detected in the wells during gauging activities. The measured water levels were converted 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 July 5 and 6, 1994, ground water samples were obtained from the wells for analytical testing. 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).

Since the System remained active during this quarter's monitoring event, purging of well B-12 prior to sampling was unnecessary. Well B-12 was sampled first, and all other 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. 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 two 40-milliliter (ml) VOA vials with Teflon septa lined lids and in one-liter plastic bottles. 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 frozen blue ice. The samples were kept chilled until delivered to the laboratory for analytical testing. All samples were logged on a chain of custody record form (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 Sequoia Analytical, a state certified hazardous waste testing laboratory (Certificate No. 1271) 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 period's testing. The laboratory reports are contained in Appendix C.

4.0 SYSTEM OPERATION/MAINTENANCE

The ground water treatment system's two 2,000-pound carbon adsorption units were replaced with two 180-pound carbon canister units on May 2, 1994. The replacement of the larger units was required due to a small leak which developed at the base of one of the units. The two 180-pound carbon canister units were installed in series. A pressure gauge is present on the inlet of the primary (lead) canister. The effluent from the second canister is connected to a polyvinyl chloride (PVC) discharge line which drains into a clarifier located at the northside of the auto service center. The fluids in the clarifier are then discharged to the sanitary sewerage system.

Table 3 presents the flowmeter reading for the period from April 15, 1994 through June 29, 1994. These data show that during this period approximately 539,370 gallons of water (approximately 5 gallons per minute) were treated and discharged into the Dublin-San Ramon Water Districts sanitary sewerage 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. As directed by Montgomery Ward & Co., Incorporated, EAI's scope of work was limited to generating and summarizing data. No other warranty or representation, expressed or implied, is made as to the professional advice contained in this report.

CPD:FSM:SAB:ss

CHRIS 1233M94C DOC

TABLES

TABLE 1

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center
ENE Properties
Dublin, California

Page 1 of 4

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	329.43
07-24-92		11.91	-	0	328.14
10-22-92		12.97	-	0	327.08
01-15-93		12.97	-	0	327.08
04-15-93		9.75	-	0	330.30
05-14-93		10.07	-	0	329.98
07-14-93		10.80	-	0	329.25
10-14-93		12.08	-	0	327.97
01-13-94		12.23	-	0	327.82
04-04-94		11.30	-	0	328.75
07-05-94		12.37	-	0	327.68
B-10					
	339.70				
04-16-92		10.32	-	0	329.38
07-24-92		11.69	-	0	328.01
10-22-92		12.67	-	0	327.03
01-15-93		9.48	-	0	330.22
04-15-93		9.49	-	0	330.21
05-14-93		9.87	-	0	329.83
07-14-93		10.64	-	0	329.06
10-14-93		11.80	-	0	327.90
01-13-94		11.94	-	0	327.76
04-04-94		11.00	-	0	328.70
07-05-94		12.08	-	0	327.62
B-12					
	339.10				
04-16-92		9.95	-	0	329.15
07-24-92		11.57	-	0	327.53
10-22-92		12.82	-	0	326.28
01-15-93		8.66	-	0	330.44
04-15-93		8.70	-	0	330.40
05-14-93		9.32	-	0	329.78
07-14-93		9.95	-	0	329.15
10-14-93		10.94	-	0	328.16
01-13-94		11.28	-	0	327.82
04-04-94		10.32	-	0	328.78
07-05-94		19.25	-	0	319.85

TABLE 1

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center

ENE A Properties

Dublin, California

Page 2 of 4

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-15					
	340.62				
04-16-92		11.09	-	0	329.53
07-24-92		12.33	-	0	328.29
10-22-92		13.25	-	0	327.37
01-15-93		10.22	-	0	330.40
04-15-93		10.26	-	0	330.36
05-14-93		10.64	-	0	329.98
07-14-93		11.35	-	0	329.27
10-14-93		12.41	-	0	328.21
01-13-94		12.59	-	0	328.03
04-04-94		11.74	-	0	328.88
07-05-94		12.86	-	0	327.76
B-16					
	339.82				
04-16-92		10.63	-	0	329.19
07-24-92		11.90	-	0	327.92
10-22-92		12.88	-	0	326.94
01-15-93		9.79	-	0	330.03
04-15-93		9.83	-	0	329.99
05-14-93		10.20	-	0	329.62
07-14-93		10.92	-	0	328.90
10-14-93		11.99	-	0	327.83
01-13-94		12.16	-	0	327.66
04-04-94		11.28	-	0	328.54
07-05-94		12.28	-	0	327.54
MW-100					
	339.61				
05-14-93		10.34	-	0	329.27
07-14-93		11.00	-	0	328.61
10-14-93		12.12	-	0	327.49
01-13-94		12.25	-	0	327.36
04-04-94		11.36	-	0	328.25
07-05-94		12.22	-	0	327.39

TABLE 1

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center
ENE A Properties
Dublin, California

Page 3 of 4

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)
MW-101					
	338.54				
05-14-93		9.91	-	0	328.63
07-14-93		10.38	-	0	328.16
10-14-93		11.30	-	0	327.24
01-13-94		11.21	-	0	327.33
04-04-94		10.69	-	0	327.85
07-05-94		11.39	-	0	327.15
MW-102					
	339.23				
05-14-93		9.60	-	0	329.63
07-14-93		10.31	-	0	328.92
10-14-93		11.57	-	0	327.66
01-13-94		11.71	-	0	327.52
04-04-94		10.83	-	0	328.40
07-05-94		11.65	-	0	327.96
ENE A MW-1					
	335.84				
10-14-93		9.05	-	0	326.79
01-13-94		NM	-	0	NM
04-04-94		8.36	-	0	327.48
07-05-94		9.04	-	0	326.80
ENE A MW-2					
	335.61				
10-14-93		8.90	-	0	326.71
01-13-94		NM	-	0	NM
04-04-94		8.05	-	0	327.56
07-05-94		8.84	-	0	326.77
ENE A MW-3					
	336.93				
10-14-93		9.89	-	0	327.84
01-13-94		NM	-	0	NM
04-04-94		9.19	-	0	327.74
07-05-94		9.92	-	0	327.01

TABLE 1

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center
 ENEA Properties
 Dublin, California

Page 4 of 4

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)
ENEA MW-4					
	335.76				
10-14-93		NI	-	0	NI
01-13-94		NM	-	0	NM
04-04-94		8.55	-	0	327.21
07-05-94		9.15	-	0	326.61
ENEA EW-1					
	336.08				
10-14-93		NI	-	0	NI
01-13-94		NM	-	0	NM
04-04-94		8.62	-	0	327.46
07-05-94		9.28	-	0	326.80

NOTES:

- 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.
- The elevation of all depth to water measurements were converted to mean sea level elevations using well casing elevation datum surveyed on October 14, 1993.
- 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 Boulevard.
- Wells MW-1, MW-2, MW-3, MW-4 and EW-1 are owned by Enea Properties and are located at the Enea Plaza located on the intersection of Amador Plaza Road and Dublin Boulevard.

DTP 1233 ELEV.DOC

TABLE 2

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 1 of 3

Well B-5

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

Well B-10

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

Well B-12

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

TABLE 2

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 2 of 3

Well B-15

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

Well B-16

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

Well MW-100

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

Well MW-101

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

TABLE 2

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

Enea Properties

Dublin, California

Parts per billion (ppb)

Page 3 of 3

Well MW-102

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

EFFLUENT

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

ENEa MW-1

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
10-14-93	5700	76	19	160	460	ND
04-04-94	7000	27	ND	260	49	ND
07-05-94	5100	23	ND	260	50	ND

ENEa MW-2

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

ENEa MW-3

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
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

ENEa MW-4

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-04-94	ND	ND	ND	ND	ND	23
07-05-94	ND	ND	0.5	ND	0.62	ND

NOTE:

ND Not Detected
 NA Not Analyzed

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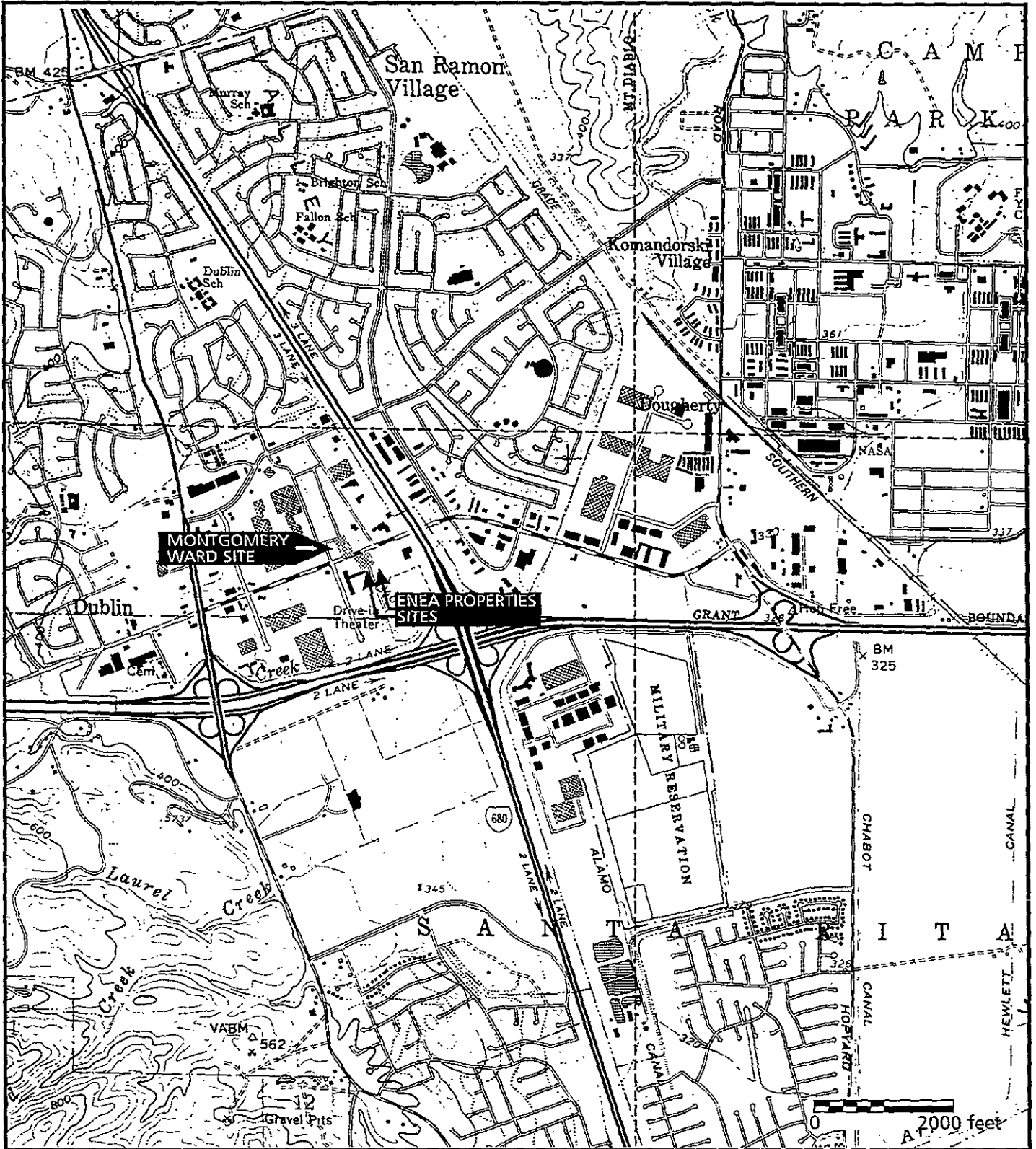
TABLE 3

FLOW METER READINGS
Montgomery Ward Auto Service Center
Dublin, California

DATE	FLOW METER READING (in gallons)	AVERAGE GPM
4/15/94	402,210	
4/22/94	458,320	5.57
4/26/94	488,950	5.32
5/3/94	491,750	0.28
5/20/94	639,200	6.02
6/3/94	759,790	5.98
6/29/94	941,580	4.86
	AVERAGE	4.99

GPM- Gallons per minute

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
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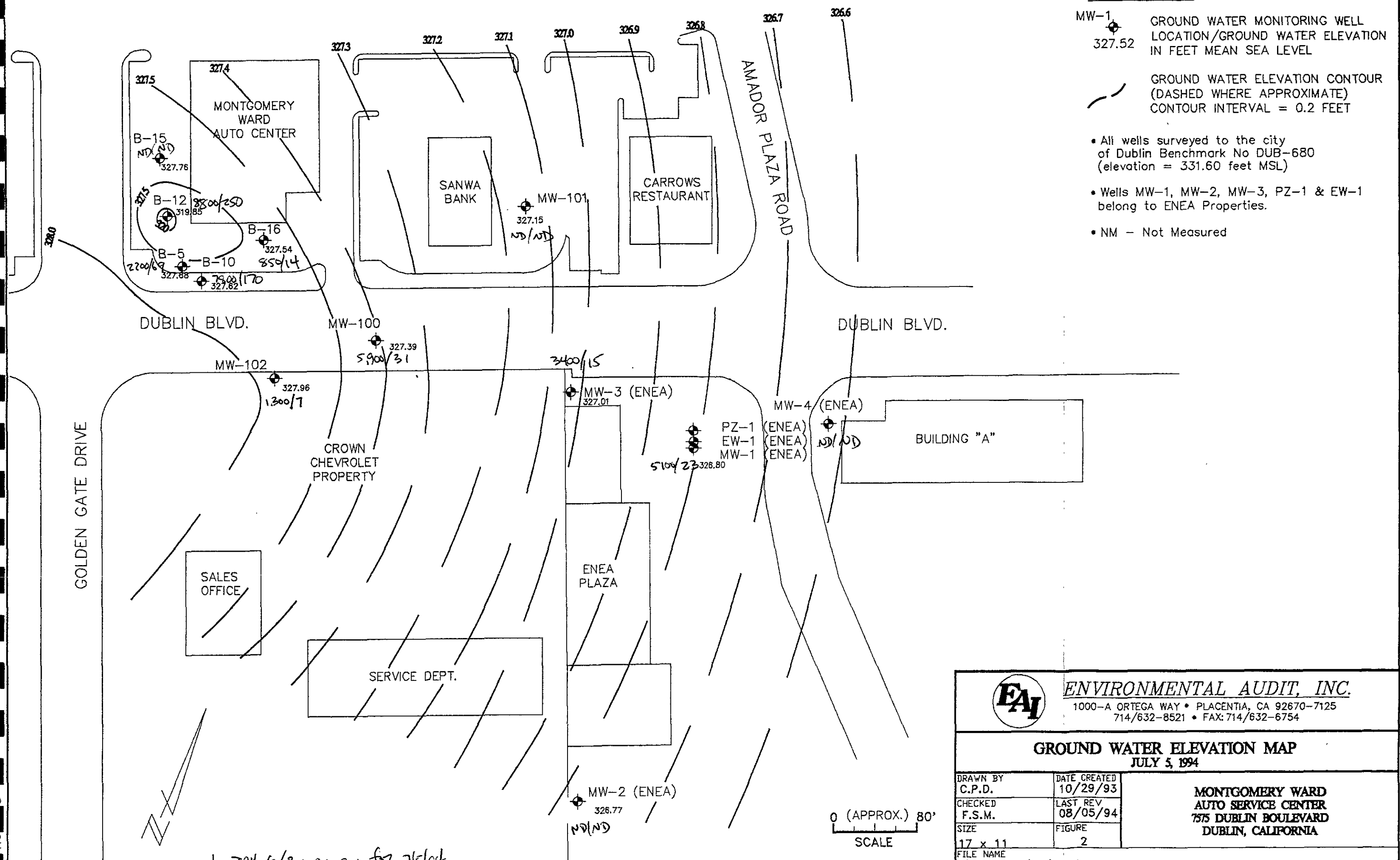
Figure 1

EXPLANATION:

MW-1
 327.52
 GROUND WATER MONITORING WELL LOCATION/GROUND WATER ELEVATION IN FEET MEAN SEA LEVEL


GROUND WATER ELEVATION CONTOUR (DASHED WHERE APPROXIMATE)
 CONTOUR INTERVAL = 0.2 FEET

- All wells surveyed to the city of Dublin Benchmark No DUB-680 (elevation = 331.60 feet MSL)
- Wells MW-1, MW-2, MW-3, PZ-1 & EW-1 belong to ENEA Properties.
- NM - Not Measured



ppb TPH - G/Beneve for 7/5/94

0 (APPROX.) 80'
 SCALE

 ENVIRONMENTAL AUDIT, INC. 1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125 714/632-8521 • FAX: 714/632-6754	
GROUND WATER ELEVATION MAP JULY 5, 1994	
DRAWN BY C.P.D.	DATE CREATED 10/29/93
CHECKED F.S.M.	LAST REV 08/05/94
SIZE 17 x 11	FIGURE 2
FILE NAME I:\MONTGOM\08\14308001	
MONTGOMERY WARD AUTO SERVICE CENTER 7575 DUBLIN BOULEVARD DUBLIN, CALIFORNIA	

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

DATE:	7/5/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	B-5
WELL DIAMETER (INCHES):	2
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF WELL (ft.) 21.00 DEPTH TO WATER LEVEL (ft. bgs) 12.37 DEPTH TO FREE PRODUCT (ft. bgs)

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

8.63 x 0.16 = 1.38
 ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START 1542 STOP 1546

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Whale Supersub 921

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
1	71.2	0.73	6.65	0.84	
2	73.2	0.74	6.32	0.84	
3	72.3	0.75	6.23	0.84	
4	72.4	0.75	6.31	0.71	
5	72.5	0.74	6.29	0.51	
6	72.1	0.74	6.25	0.21	
7	72.3	0.74	6.50	0.20	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): 1550

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Voss Technologies Disposable

COMMENTS: _____

GROUND WATER Sampling Log



Environmental Audit, Inc.

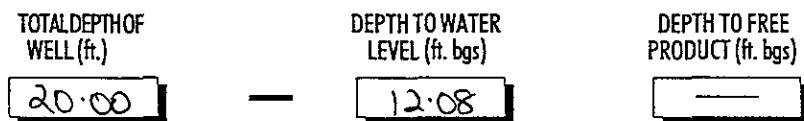
Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125
 (714) 632 - 8521 (714) 632 - 6754

DATE:	7/5/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	B-10
WELL DIAMETER (INCHES):	2
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:



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

7.92 x **0.16** = **1.27**
 WELL VOLUME FACTOR = ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START **15:20** STOP **15:30**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Whale Supersub 921**

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
1	72.5	0.78	7.16	0.84	
2	72.1	0.76	6.80	0.83	
3	71.4	0.75	6.63	0.83	
4	71.0	0.75	6.53	0.83	
5	73.0	0.76	6.31	0.83	
6	73.6	0.75	6.15	0.84	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): **15:40**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Voss Technologies Disposable**

COMMENTS: _____

GROUND WATER Sampling Log



Environmental Audit, Inc.

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1000 ORTEGA WAY, SUITE A (714) 632 - 8521
PLACENTIA, CA 92670-7125 FAX (714) 632 - 6754

DATE:	7/6/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	B-15
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF WELL (ft.) **20.64** — DEPTH TO WATER LEVEL (ft. bgs) **12.86** DEPTH TO FREE PRODUCT (ft. bgs) **—**

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

20.64 — **12.86** = **7.78** x **0.65** = **5**
 ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START **0900** STOP **912**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Whale Supersub 921**

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	66.6	0.73	7.60	0.87	
10	67.3	0.71	7.42	0.87	
15	68.0	0.72	7.16	0.86	
20	68.3	0.72	6.95	0.86	

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.): **0915**

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 (714) 632 - 8521
PLACENTIA, CA 92670-7125 FAX (714) 632 - 6754

DATE:	7/6/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	B-16
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF WELL (ft.) **23.35** DEPTH TO WATER LEVEL (ft. bgs) **12.28** DEPTH TO FREE PRODUCT (ft. bgs) **—**

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

$$\begin{aligned}
 & \text{23.35} - \text{12.28} = \text{11.07} \\
 & \text{11.07} \times \text{0.65} = \text{7.2} \\
 & \text{ONE CASING VOLUME OF WATER (GALLONS)}
 \end{aligned}$$

PURGE TIME (hrs.): START **1320** STOP **1340**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Whale Supersub 921**

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	80.3	1.20	7.57	0.78	
10	77.3	1.15	7.36	0.78	
15	75.7	1.13	7.05	0.78	
20	73.8	1.11	6.77	0.77	
25	72.7	1.11	6.67	0.77	
30	73.2	1.11	6.50	0.77	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): **1345**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Voss Technologies Disposable**

COMMENTS:

GROUND WATER Sampling Log



Environmental Audit, Inc.

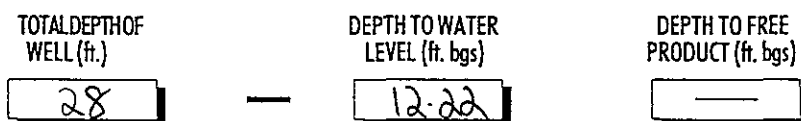
Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125
 (714) 632 - 8521 (714) 632 - 6754

DATE:	7/6/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	MW-100
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:



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

15.78 x **0.65** = **10.25**
 WELL VOLUME FACTOR = ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START **0939** STOP **1008**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Whale Supersub 921**

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	71.0	0.78	7.41	0.85	
10	70.5	0.77	6.96	0.85	
15	71.0	0.77	6.67	0.85	
20	70.5	0.79	6.56	0.84	
25	70.3	0.76	6.43	0.84	
30	70.0	0.76	6.33	0.84	
35	70.2	0.76	6.26	0.84	
40	70.0	0.77	6.32	0.84	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): **1010**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Voss Technologies Disposable**

COMMENTS: _____

GROUND WATER Sampling Log



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

DATE:	7/6/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	MW-101
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

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

TOTAL DEPTH OF WELL (ft.) 28 DEPTH TO WATER LEVEL (ft. bgs) 11.39 DEPTH TO FREE PRODUCT (ft. bgs)

$$\begin{aligned}
 & (28 - 11.39) \times 0.65 = 10.8 \\
 & \text{ONE CASING VOLUME OF WATER (GALLONS)}
 \end{aligned}$$

PURGE TIME (hrs.): START 1130 STOP 1205

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Whale Supersub 921

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	73.1	1.15	7.22	0.83	
10	71.1	1.15	6.89	0.83	
15	71.0	1.15	6.73	0.83	
20	71.7	1.15	6.57	0.83	
25	71.0	1.15	6.49	0.83	
30	71.1	1.15	6.52	0.83	
35	72.6	1.17	6.74	0.83	
40	71.9 70.5	1.15	6.57	0.82	
45	70.5	1.15	6.41	0.82	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): 1208

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Voss Technologies Disposable

COMMENTS: _____

GROUND WATER Sampling Log



Environmental Audit, Inc.

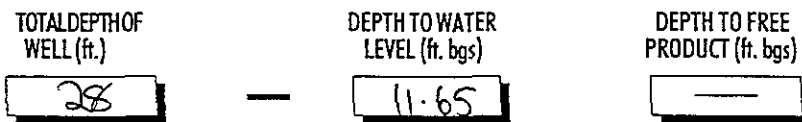
Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A (714) 632 - 8521
PLACENTIA, CA 92670-7125 FAX (714) 632 - 6754

DATE:	7/10/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	MW-102
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:



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

16.35 x 0.65 = 10.63
WELL VOLUME VOLUME FACTOR = ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START 10:40 STOP 11:02

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Whale Supersub 921

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	73.3	1.00	7.92	0.83	
10	70.2	0.99	7.45	0.83	
15	68.7	0.98	7.10	0.83	
20	68.1	0.98	6.95	0.83	
25	67.9	0.95	6.69	0.83	
30	67.4	0.98	6.65	0.83	
35	67.4	0.98	6.50	0.83	
40	67.6	0.98	6.65	0.85	
45	67.8	0.98	6.60	0.84	

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.): 1:15

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Voss Technologies Disposable

COMMENTS:

GROUND WATER Sampling Log



Environmental Audit, Inc.

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

DATE:	7/5/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	ENEA MW-1
WELL DIAMETER (INCHES):	4
SAMPLED BY:	OPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF WELL (ft.) **15.10** — DEPTH TO WATER LEVEL (ft. bgs) **9.04** — DEPTH TO FREE PRODUCT (ft. bgs) **—**

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

6.06 x **0.65** = **4**
 WELL VOLUME FACTOR = ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START **12:56** STOP **13:04**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Whale Supersub 921**

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	73.5	0.82	7.61	0.84	
10	71.5	0.79	7.15	0.84	
15	70.2	0.75	6.93	0.84	
20	69.2	0.78	6.75	0.84	

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.): **13:15**

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: **Voss Technologies Disposable**

COMMENTS: _____

GROUND WATER Sampling Log



Environmental Audit, Inc.

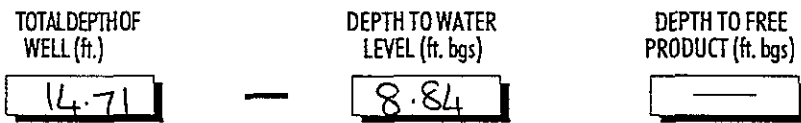
Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125
 (714) 632 - 8521
 FAX (714) 632 - 6754

DATE:	7/5/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	EWEA MW-2
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:



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

$5.87 \times 0.65 = 3.82$
 WELL VOLUME FACTOR = ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START 1440 STOP 1459

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Whale Supersub 921

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	75.5	0.91	7.31	0.82	
10	73.1	0.88	6.86	0.82	
15	72.5	0.87	6.64	0.82	
20	72.6	0.86	6.52	0.85	

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.): 1500

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:	7/5/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	ENEAW-3
WELL DIAMETER (INCHES):	4
SAMPLED BY:	CPD

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)
15.10	9.92	—

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

$$15.10 - 9.92 = 5.18$$

$$5.18 \times 0.65 = 3.4$$

PURGE TIME (hrs.): START 11:09 STOP 14:16 = ONE CASING VOLUME OF WATER (GALLONS)

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER
 TYPE/MODEL: Whale Supersub 921

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
5	76.5	0.82	7.50	0.84	
10	74.3	0.79	7.04	0.83	
15	72.4	0.78	6.62	0.83	

WELL SAMPLING INFORMATION

TIMESAMPLED (hrs.): 14:20
 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:	7/5/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	ENEA MW-4
WELL DIAMETER (INCHES):	2
SAMPLED BY:	CPD

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)
22.30	09.15	—

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

$$\begin{aligned}
 & 22.30 - 09.15 = 13.15 \\
 & 13.15 \times 0.16 = 2.1
 \end{aligned}$$

ONE CASING VOLUME OF WATER (GALLONS)

PURGE TIME (hrs.): START 11:58 STOP 12:25

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Whale Supersub 921

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10 ³	pH	TURBIDITY (NTU)	REMARKS
2	74.8	0.90	7.60	0.33	
4	71.2	0.86	7.40	0.20	
6	73.6	0.84	7.24	0.18	
8	74.0	0.85	7.05	0.17	
10	73.6	0.87	6.77	0.17	
12	73.7	0.86	6.67	0.17	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): 12:30

METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER OTHER

TYPE/MODEL: Voss Technologies Disposable

COMMENTS:

APPENDIX B

CHAIN OF CUSTODY
RECORD FORMS



Environmental Audit, Inc.®

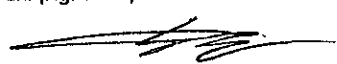
Planning, Environmental Analyses and Hazardous Substances Management and Remediation

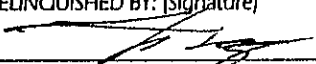
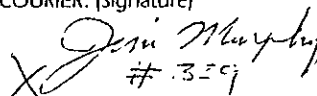
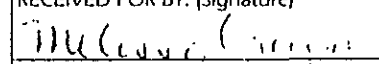
1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA NPDES SDWA _____

WRITTEN QC REPORT _____ TURNAROUND TIME:
ROUTINE OC SAME DAY 24hr 48hr NORMAL
RWOCB OC

PROJECT NO. 1233		PROJECT NAME Montgomery Ward, Dublin			CONTR TYPE	ANALYSES REQUESTED												NUMBER OF CONTAINERS	REMARKS										
SAMPLER: (Signature) 					PROJECT MANAGER: Frank Muramoto					GLASS	PLASTIC	BRASS/ SS TUBE	TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX (602) 8020	VOC 624 8240		EOC 625 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 601 8010	3	Chris d'Sa @ ext. 248 Call at EAI if any questions				
SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION																								
ENEA MW-4	7/5/94	1230			Water					/	/	/	/	/	/	/	/	/	/	/	/	/	3	One 1-Liter Plastic Bottle (lead) two 40-ml VOA Vials (BTEX/TPH)	4070366				
ENEA MW-1		1315			↓					/	/	/	/	/	/	/	/	/	/	/	/	/	3	4070367 A.C					
ENEA MW-3		1430								/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	4070368	
ENEA MW-2		1500								/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	4070369	
B-10		1540								/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	4070370	
B-5		1550								/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	4070371 ↓	
												TOTAL NUMBER OF CONTAINERS												8					

RELINQUISHED BY: (Signature) 	DATE/TIME 7/6/94 1614	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	
SAMPLES SHIPPED VIA: FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> AIRBORNE <input type="checkbox"/> BUS <input type="checkbox"/> HAND <input checked="" type="checkbox"/>		SHIPPED BY: (Signature)	COURIER: (Signature)  # 3259	RECEIVED FOR BY: (Signature) 	DATE/TIME 7/6/94	LAB: Sequoia Analytical

APPENDIX C

LABORATORY
REPORTS



**Sequoia
Analytical**

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

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JUL 28 1994

Environmental Audit
1000-A Ortega Way
Placentia, CA 92670
Attention: Frank Muramoto

Client Project ID: #1233/Montgomery Ward, Dublin
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 407-0366

ENVIRONMENTAL AUDIT
Sampled: Jul 5, 1994
Received: Jul 7, 1994
Reported: Jul 20, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 407-0366 ENEAW-4	Sample I.D. 407-0367 ENEAW-1	Sample I.D. 407-0368 ENEAW-3	Sample I.D. 407-0369 ENEAW-2	Sample I.D. 407-0370 B-10	Sample I.D. 407-0371 B-5
Purgeable Hydrocarbons	50	N.D.	5,100	3,400	N.D.	7,800	2,200
Benzene	0.5	N.D.	23	15	N.D.	170	69
Toluene	0.5	0.50	N.D.	5.0	N.D.	50	13
Ethyl Benzene	0.5	N.D.	260	31	N.D.	550	150
Total Xylenes	0.5	0.62	50	48	N.D.	810	95
Chromatogram Pattern:		--	Gasoline	Gasoline	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	5.0	1.0	10	10
Date Analyzed:	7/18/94	7/18/94	7/18/94	7/18/94	7/18/94	7/18/94
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	92	118	73	81	78	79

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

SEQUOIA ANALYTICAL, #1271

Karen L. Enstrom
Project Manager





Environmental Audit	Client Project ID: #1233/Montgomery Ward, Dublin	Sampled: Jul 5, 1994
1000-A Ortega Way	Sample Matrix: Water	Received: Jul 7, 1994
Placentia, CA 92670	Analysis Method: EPA 5030/8015/8020	Reported: Jul 20, 1994
Attention: Frank Muramoto	First Sample #: 407-0372	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 407-0372 B-15	Sample I.D. 407-0373 MW-100	Sample I.D. 407-0374 MW-102	Sample I.D. 407-0375 MW-101	Sample I.D. 407-0376 B-16	Sample I.D. 407-0377 B-12
Purgeable Hydrocarbons	50	N.D.	5,900	1,300	N.D.	850	8,800
Benzene	0.5	N.D.	31	7.0	N.D.	14	250
Toluene	0.5	N.D.	8.7	2.9	N.D.	5.6	340
Ethyl Benzene	0.5	N.D.	190	10	N.D.	52	370
Total Xylenes	0.5	N.D.	190	23	N.D.	130	920
Chromatogram Pattern:		--	Gasoline	Gasoline	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	5.0	1.0	5.0	20
Date Analyzed:	7/18/94	7/18/94	7/18/94	7/18/94	7/18/94	7/18/94
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	80	75	78	78	89	96

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

SEQUOIA ANALYTICAL, #1271


Karen L. Enstrom
Project Manager





Sequoia Analytical

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Environmental Audit
1000-A Ortega Way
Placentia, CA 92670
Attention: Frank Muramoto

Client Project ID: #1233/Montgomery Ward, Dublin
Sample Descript: Water
Analysis for: Lead
First Sample #: 407-0366

Sampled: Jul 6, 1994
Received: Jul 7, 1994
Extracted: Jul 14, 1994
Analyzed: Jul 15, 1994
Reported: Jul 20, 1994

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
407-0366	ENEAWW-4	0.020	N.D.
407-0367	ENEAWW-1	0.020	N.D.
407-0368	ENEAWW-3	0.020	N.D.
407-0369	ENEAWW-2	0.020	N.D.
407-0370	B-10	0.020	N.D.
407-0371	B-5	0.020	N.D.
407-0372	B-15	0.020	N.D.
407-0373	MW-100	0.020	N.D.
407-0374	MW-102	0.020	N.D.
407-0375	MW-101	0.020	N.D.
407-0376	B-16	0.020	N.D.
407-0377	B-12	0.020	N.D.

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

SEQUOIA ANALYTICAL, #1271


Karen L. Enstrom
Project Manager





Environmental Audit
1000-A Ortega Way
Placentia, CA 92670

Client Project ID: #1233/Montgomery Ward, Dublin
Matrix: Liquid

Attention: Frank Muramoto

QC Sample Group: 4070366-377

Reported: Jul 21, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 200.7
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	S. Phillips

MS/MSD Batch#:	4070356	4070356	4070356	4070356	4070367
Date Prepared:	7/18/94	7/18/94	7/18/94	7/18/94	7/14/94
Date Analyzed:	7/18/94	7/18/94	7/18/94	7/18/94	7/15/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty-100
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	1.0 mg/L
Matrix Spike % Recovery:	85	95	100	103	87
Matrix Spike Duplicate % Recovery:	80	95	95	98	92
Relative % Difference:	6.1	0.0	5.1	4.9	5.6

LCS Batch#:	2LCS071894	2LCS071894	2LCS071894	2LCS071894	BLK071494
Date Prepared:	7/18/94	7/18/94	7/18/94	7/18/94	7/14/94
Date Analyzed:	7/18/94	7/18/94	7/18/94	7/18/94	7/15/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty-100
LCS % Recovery:	83	93	96	99	97

% Recovery Control Limits:	71-133	72-128	72-130	71-120	75-125
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Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271


Karen L. Enstrom
Project Manager





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JUL 28 1994

Environmental Audit Client Project ID: #1233/Montgomery Ward, Dublin ENVIRONMENTAL AUDIT
 1000-A Ortega Way Sample Matrix: Water Sampled: Jul 6, 1994
 Placentia, CA 92670 Analysis Method: EPA 5030/8015/8020 Received: Jul 6, 1994
 Attention: Frank Muramoto First Sample #: 407-0360 Reported: Jul 20, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 407-0360 Effluent
Purgeable Hydrocarbons	50	N.D.
Benzene	0.5	N.D.
Toluene	0.5	N.D.
Ethyl Benzene	0.5	N.D.
Total Xylenes	0.5	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	7/17/94
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	94

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

SEQUOIA ANALYTICAL, #1271

Karen L. Enstrom
 Project Manager





Environmental Audit	Client Project ID: #1233/Montgomery Ward, Dublin	Sampled: Jul 6, 1994
1000-A Ortega Way	Sample Descript: Water	Received: Jul 6, 1994
Placentia, CA 92670	Analysis for: Lead	Extracted: Jul 15, 1994
Attention: Frank Muramoto	First Sample #: 407-0360	Analyzed: Jul 18, 1994
		Reported: Jul 20, 1994

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
407-0360	Effluent	0.020	N.D.

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

SEQUOIA ANALYTICAL, #1271


 Karen L. Enstrom
 Project Manager





Environmental Audit
1000-A Ortega Way
Placentia, CA 92670
Attention: Frank Muramoto

Client Project ID: #1233/Montgomery Ward, Dublin
Matrix: Liquid

QC Sample Group: 407-0360

Reported: Jul 20, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 200.7
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	J. Dinsay

MS/MSD Batch#:	4070211	4070211	4070211	4070211	4070527
Date Prepared:	7/17/94	7/17/94	7/17/94	7/17/94	7/15/94
Date Analyzed:	7/17/94	7/17/94	7/17/94	7/17/94	7/18/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty-100
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	1.0 mg/L
Matrix Spike % Recovery:	90	100	105	105	87
Matrix Spike Duplicate % Recovery:	95	105	110	110	84
Relative % Difference:	5.4	4.9	4.7	4.7	3.5

LCS Batch#:	1LCS071794	1LCS071794	1LCS071794	1LCS071794	BLK071594
Date Prepared:	7/17/94	7/17/94	7/17/94	7/17/94	7/15/94
Date Analyzed:	7/17/94	7/17/94	7/17/94	7/17/94	7/18/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty-100
LCS % Recovery:	96	103	106	108	87

% Recovery Control Limits:	71-133	72-128	72-130	71-120	75-125
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Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Karen L. Enstrom
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Project Manager

