# AUGUST 1991 QUARTERLY MONITORING REPORT FOR HERTZ SERVICE CENTER #1 AIRPORT DRIVE OAKLAND ALAMEDA COUNTY CALIFORNIA

### Prepared For:

THE HERTZ CORPORATION
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### Prepared By:

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PROJECT NO. 6-91-5228

September 16, 1991

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This report, including all related activities, was prepared or conducted by Paul K. Graff, Senior Project Geologist, under the direct supervision of Susan S. Wickham, RG, Senior Hydrogeologist, of the Concord office of Environmental Science & Engineering, Inc. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other hydrogeologists and engineers practicing in this field. No other warranty, expressed or implied, is made as to the professional advice in this report.

Senior Project Geologist

Susan S. Wickham, RG 3851

OSTERED GEOLOGIO

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Senior Hydrogeologist

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#### 1.0 INTRODUCTION

This Quarterly Monitoring Report describes ground water measurement and sampling activities at the Hertz Service Center, #1 Airport Drive, Oakland, Alameda County, California. The site is an active rental car service and fueling facility located at the Oakland Airport.

### 1.1 Background

Figure 1 - Site Plan shows the former locations of underground fuel tanks (gasoline tanks of 10,000 and one 5,000 gallon capacity, and a waste oil tank of 500 gallon capacity) and piping removed in November 1988 by Paradiso Construction (Woodward-Clyde, 1990). Six soil samples (A1 - A6) and one ground water sample (A5) were collected from the excavation by Paradiso at the time of tank removal. Soil samples B1 and B2 were collected from the piping trenches, and a composite sample (C1, C2, and C3) was collected from stockpiled soil from the excavation. The soil and ground water samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). Table 1 - Summary of Soil and Ground Water Sampling Analytical Results shows that soil sample B2 contained 1,300 ppm (parts per million) TPHg and BTEX concentrations ranging from 19 to 200 ppm. None of the other soil samples contained detectable concentrations of TPHg or BTEX. Soil sample A1 was also analyzed for Halogenated Volatile Organics (HVO, using EPA Method 8010), however, none were detected. The ground water sample contained 7,400 ppb (parts per billion) TPHg, and BTEX concentrations ranging from 63 to 1,900 ppb (results are presented in Table 1).

Because ground water had been impacted by hydrocarbons, Woodward-Clyde Consultants installed three ground water monitoring wells in December 1989. Ground water was found at a depth of approximately five feet in these wells. Soil types found were poorly-graded to well-graded sand fill to a depth of approximately 13 feet, and sand and clay to total depth (16.5 feet). Soil samples collected during well drilling did not contain detectable concentrations of Semi-volatile Organics (EPA 8270), TPHg, TPH as diesel (TPHd), or

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BTEX. The soil samples were also analyzed for metals; none were detected at concentrations above state-defined hazardous waste levels (TTLC or Total Threshold Limit Concentrations).

The ground water flow direction was estimated to be to the southwest, towards San Francisco Bay. None of the ground water samples from the three wells contained detectable concentrations of TPHg, TPHd, BTEX, HVO, or Semivolatile Organics, although several tentatively identified compounds from this latter group were noted (Woodward-Clyde, 1990).

Based upon these results, Hertz requested case closure of the site in March 1991 from the lead regulatory agency, Alameda County Department of Environmental Health (ACDEH). ACDEH denied the request; replying instead that one year of quarterly monitoring and sampling at the site would be necessary before closure could be considered (ACDEH, 1991).

Environmental Science & Engineering, Inc. (ESE) was contracted by Hertz to perform the quarterly sampling and reporting. This report presents the results of the first quarter (August 1991) of monitoring and sampling.

### 2.0 METHODS AND PROCEDURES

On August 20, 1991, depth to ground water was measured in the three wells before each was purged of 10 gallons of water (approximately 5 casing volumes) with a hand pump until pH, temperature, and conductivity measurements stabilized. Water samples were collected from each well with clean disposable bailers and stored on ice in labeled 40 ml VOA vials for transport to Curtis & Tompkins, a State-certified analytical laboratory. The samples were analyzed for TPHg, using EPA Method 5030/8015-modified, TPHd, using EPA Method 3550/8015-modified, BTEX, using EPA Method 5030/8020, Oil & Grease, using SMWW 5520, metal Cadmium (Cd), Chromium (Cr), Lead (Pb), Nickel (Ni), and Zinc (Zi), Semi-volatile Organics, using EPA Method 8270, and Halogenated Volatile Organics, using EPA Method 8010.

Purge water was stored on site in drums pending analytical results for disposal.

### 3.0 RESULTS

### 3.1 Ground Water Elevations

Depth to ground water in the wells ranged from 4.00 to 5.13 feet below grade. Figure 2 - Ground Water Elevation Contours shows that the ground water gradient is approximately 0.03 ft/ft towards the southwest, similar to the flow direction estimated in December 1989.

### 3.2 Ground Water Sampling Results

Table 1 shows the results of ground water analyses for all wells in August 1991. None of the ground water samples contained detectable concentrations of the analytes. Laboratory reports and chain of custody documents for the August 1991 sampling are included in Appendix A.

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### **4.0 CONCLUSIONS**

- No hydrocarbons or metals were detected in the August 1991 ground water samples.
- The ground water flow direction in August 1991 was towards the southwest, similar to that estimated in December 1989.

### **5.0 REFERENCES**

Alameda County Department of Environmental Health, 1991, Letter to Jane Woodwell of Hertz concerning Request to Close Monitoring Wells.

Woodward-Clyde Consultants, 1990, Preliminary Soil and Groundwater Contamination Assessment, Hertz Service Center, #1 Airport Drive, Oakland, California., February 1990.

TABLE 1 - SUMMARY OF SOIL AND GROUND-WATER SAMPLING ANALYTICAL RESULTS AT HERTZ/OAKLAND AIRPORT, OAKLAND, CALIFORNIA

| GROUND   | WATER          | Ground-<br>Water Depth | <br> <br>  Metals<br>  (ppm) |                             | Total Petroleum Hydrocarbons (ppb) |                             |               |             |              |         | o)   | Purgeable                          | <br> <br> Semi-Volatile             |
|----------|----------------|------------------------|------------------------------|-----------------------------|------------------------------------|-----------------------------|---------------|-------------|--------------|---------|------|------------------------------------|-------------------------------------|
| Date W   | <br> <br> Well |                        |                              | Oil &<br> Grease<br>  (ppm) | as<br> Gasoline                    | as<br>  as<br> Kerosene<br> | as<br> Diesel | <br> <br> B | <br> <br>  T | <br>  E | ×    | Halocarbons<br>(EPA 8010)<br>(ppb) | Organics<br>  (EPA 8270)<br>  (ppb) |
| 08/20/91 | MW-1           | 5.15                   | all ND                       | ND                          | ND ND                              | ND                          | ND            | ND          | ND           | ND      | ND   | ali ND                             | allND                               |
|          | MW-2           | 4.00                   | all ND                       | ND                          | ND                                 | ND                          | ND            | ND          | ND           | ND      | ND   | all ND                             | allND                               |
|          | MW-3           | 4.60                   | allND                        | ND                          | ND                                 | ND                          | ND            | ND          | ND           | ND      | ND   | all ND                             | allND                               |
| 12/22/89 | MW-1           | 4.5 est.               |                              | ••                          | ND                                 |                             | ND            | ND          | <br> ND      | ND      | ND   | ali ND                             | all ND*                             |
|          | MW-2           | 4.5 est.               |                              |                             | ND                                 |                             | ND            | ND          | ND           | ND      | ND   | allND                              | all ND*                             |
|          | MW-3           | 5.0 est.               |                              |                             | ND                                 |                             | ND            | ND          | ND           | ND      | ND   | allND                              | all ND*                             |
| 11/25/88 |                | ater Sample            |                              |                             | 7,400                              |                             |               | 63          | <br> 570<br> | 250     | 1900 | <br> <br>                          | ••                                  |

| \$01                        |                            |                                       | İ    |             |             |      | <br>                     | Total                      | Petroleum      | Hydroca      | aboı           | ns             | Total Petroleum Hydrocabons (ppb) |                |   |   |  |  |  |
|-----------------------------|----------------------------|---------------------------------------|------|-------------|-------------|------|--------------------------|----------------------------|----------------|--------------|----------------|----------------|-----------------------------------|----------------|---|---|--|--|--|
| Date                        | Sample<br>ID               | Sample<br> Depth<br> (feet)           | İ    |             | talś        |      | Oil &<br>Grease<br>(ppm) | as<br>Gasoline             | as<br>Kerosene | as<br>Diesel | <br> B         | T              | ι<br> <br> ε<br>                  | X              | Purgeable<br> Halocarbons<br> (EPA 8010)<br>  (ppb) | Volatile<br>Organics<br>(EPA 8270)<br>(ppb) |  |  |  |
| 12/20/89                    | MW 1-2                     | !                                     | <br> | 19.7        | 2.5         | 23.5 |                          | ND<br>ND                   |                | ND<br>ND     |                | •              | •                                 | ND<br>ND       | all ND<br>all ND                                    | all ND                                      |  |  |  |
|                             | MW 2-2<br>MW 2-5           | !                                     |      | 18.1        | 1.5         | 12.3 |                          | ND<br>ND                   |                |              | •              | :              | ND<br>ND                          | ND<br>ND       | all ND<br>all ND                                    | all ND<br>all ND                            |  |  |  |
|                             | MW 3-2<br>MW 3-5           |                                       |      | 19.8        | 1.5         | 11.0 |                          | ND<br>ND                   |                |              |                |                | :                                 | ND<br>ND       | all ND<br>all ND                                    | all ND<br>all ND                            |  |  |  |
| 11/25/88<br> <br> <br> <br> | A1<br>A2<br>A3<br>A4<br>A5 | From  <br>Tank  <br>Exca-  <br>vation |      | -<br>-<br>- | -<br>-<br>- |      | ND  <br> <br>            | ND  <br>ND  <br>ND  <br>ND | <br>           | <br>         | ND<br>ND<br>ND | ND<br>ND<br>ND | ND<br>ND<br>ND<br>ND              | ND<br>ND<br>ND | all ND<br><br><br>                                  |   |  |  |  |
| ĺ                           | A6                         | į                                     |      | -           | -           |      |                          | ND                         |                |              |                |                | ND                                |                |   | ••  |  |  |  |

TABLE 1 (Continued. . .) - SUMMARY OF SOIL AND GROUND-WATER SAMPLING ANALYTICAL RESULTS AT HERTZ/OAKLAND AIRPORT, OAKLAND, CALIFORNIA

| SOIL     |                     |  |                 | 1                        | Total           | Petroleum       | <br>           | Semi-<br>  Volatile |              |                  |           |                                    |          |
|----------|---------------------|--|-----------------|--------------------------|-----------------|-----------------|----------------|---------------------|--------------|------------------|-----------|------------------------------------|----------|
| Date     | <br> Sample<br>  ID | Sample  <br>  Depth  <br>  (feet)                        | Metals<br>(ppm) | : :                      | as<br> Gasoline | as<br> Kerosene | as<br>Diesel   | В                   | <br> <br>  Τ | <br> <br> E      | x         | Halocarbons<br>(EPA 8010)<br>(ppb) | Organics |
| 11/25/89 | B-1<br>B-2          | Piping  <br>Exca-<br>vation                              |                 | (                        | ND<br>1,300     |                 |                |                     | ٠            | ND<br>  19       | ND<br>200 | all ND                             | ali ND   |
|          | C3                  | Composite   from soil   stockpiled   from exca-   vation | ••              | <br> <br> <br> <br> <br> | ND              | <br> <br> <br>  | <br> <br> <br> | ND                  | ND<br>       | ND<br> <br> <br> | ND        | all ND                             | all ND   |

ND = Not detected. For detection limits see Appendix A - Laboratory Reports and Chain of Custody Documents.

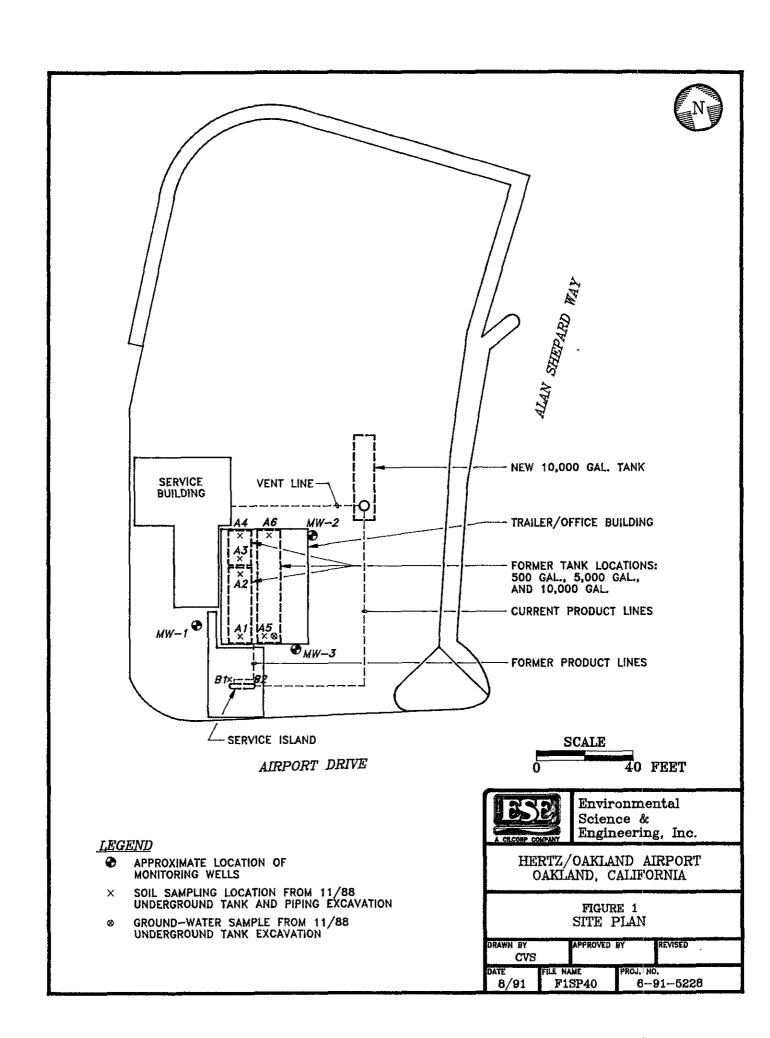
ppm = parts per million (mg/L)

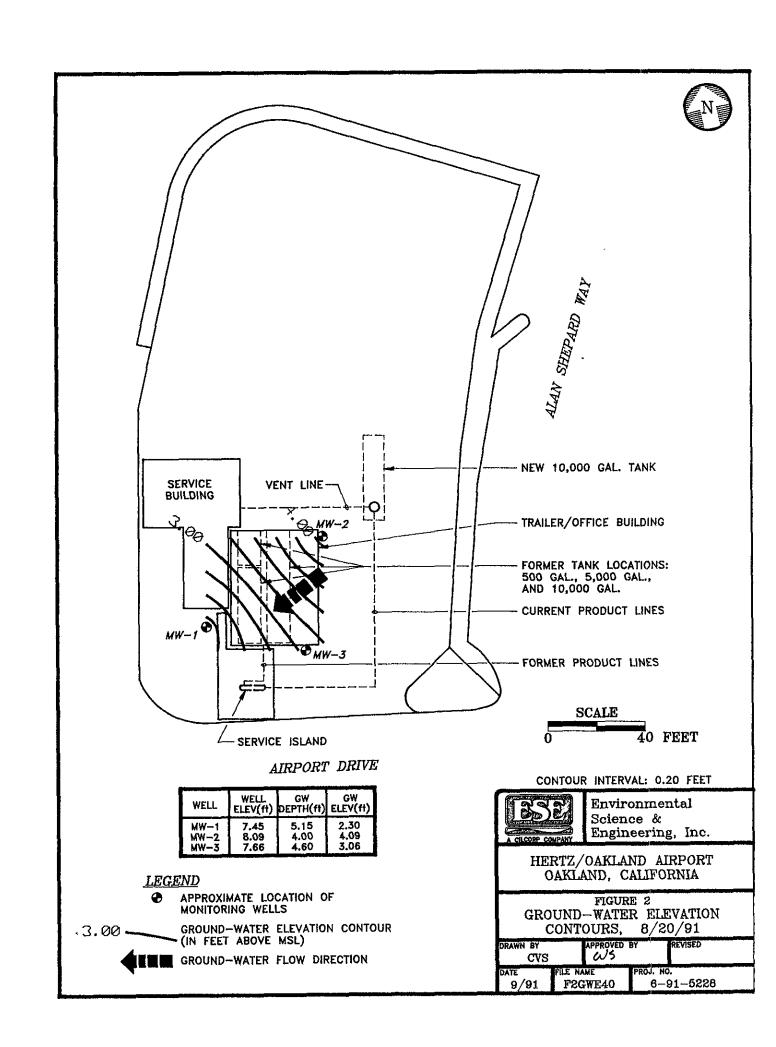
ppb = parts per billion (ug/L)

B = Benzene T = Toluene E = Ethylbenzene X = Xylenes

<sup>-- =</sup> Not Analyzed or reported.

<sup>\*</sup> An open scan reported two "tentatively identified compounds": (iodomethyl) benzene at 30 ppb in MW-1 and 40 ppb in MW-3; and 4-4' butylidenebis [2- (1,1-dimethyl - ethyl) 5-methyl] phenol at 20 ppb in MW-2 and MW-3. The identity and concentrations of these compounds are not considered reliable.





## APPENDIX A LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTS



### Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 08/20/91 DATE REPORTED: 08/27/91

LABORATORY NUMBER: 104896

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT ID: 6-91-5228

LOCATION: HERTZ

RESULTS: SEE ATTACHED

QA/QC Approval

Final Appr

Berkeley Wilmington Los Angeles



Client: Environmental Science & Engineering Laboratory Login Number: 104896

Project Name: Hertz

Project Number: 6-91-5228

Report Date: 27 August 91

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520BF

| Lab ID     | Sample ID | Matrix | Sampled   | Received  | Analyzed  | Result | Units | RL | Analyst | QC Batch |
|------------|-----------|--------|-----------|-----------|-----------|--------|-------|----|---------|----------|
| 104896-001 | MW-1      | Water  | 20-AUG-91 | 20-AUG-91 | 23-AUG-91 | ND     | mg/L  | 5  | TR      | 242      |
| 104896-002 | MW-2      | Water  | 20-AUG-91 | 20-AUG-91 | 23-AUG-91 | ND     | mg/L  | 5  | TR      | 242      |
| 104896-003 | MU-3      | Water  | 20-AUG-91 | 20-AUG-91 | 23-AUG-91 | ND     | mg/L  | 5  | TR      | 242      |
|            |           |        |           |           |           |        |       |    |         |          |
|            |           |        |           |           |           |        |       |    |         |          |
|            |           |        |           |           |           |        |       |    |         |          |

ND = Not Detected at or above Reporting Limit (RL).



### QC Batch Report

Environmental Science & Engineering Laboratory Login Number: 104896 Client:

Report Date: 27 August 91 Project Name: Hertz

Project Number: 6-91-5228

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) QC Batch Number: 2423

Blank Results

Units Method Date Analyzed Sample ID Result  $\mathtt{MDL}$ 

SMWW 17:5520BF 23-AUG-91 BLANK D5 mg/L

Spike/Duplicate Results

Method Date Analyzed Sample ID Recovery

SMWW 17:5520BF 23-AUG-91 85% BS SMWW 17:5520BF 23-AUG-91 BSD 85%

Control Limits

Average Spike Recovery 85% 80% - 120% < 20%

Relative Percent Difference 1.18



LABORATORY NUMBER: 104896 DATE RECEIVED: 08/20/91 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING DATE ANALYZED: 08/26/91

PROJECT ID: 6-91-5228 DATE REPORTED: 08/27/91

LOCATION: HERTZ

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

| LAB ID   | SAMPLE ID | TVH AS<br>GASOLINE<br>(ug/L) | BENZENE (ug/L) | TOLUENE (ug/L) | ETHYL<br>BENZENE<br>(ug/L) | TOTAL<br>XYLENES<br>(ug/L) |
|----------|-----------|------------------------------|----------------|----------------|----------------------------|----------------------------|
| 104896-1 | MW - 1    | ND(50)                       | ND(0.5)        | ND(0.5)        | ND(0.5)                    | ND(0.5)                    |
| 104896-2 | MW - 2    |                              | ND(0.5)        | ND(0.5)        | ND(0.5)                    | ND(0.5)                    |
| 104896-3 | MW - 3    |                              | ND(0.5)        | ND(0.5)        | ND(0.5)                    | ND(0.5)                    |

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %
RECOVERY, %
109



LABORATORY NUMBER: 104896

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT ID: 6-91-5228

LOCATION: HERTZ

DATE RECEIVED: 08/20/91
DATE EXTRACTED: 08/22/91
DATE ANALYZED: 08/24/91
DATE REPORTED: 08/27/91

### Extractable Petroleum Hydrocarbons in Aqueous Solutions California DOHS Method LUFT Manual October 1989

| LAB ID   | CLIENT ID | KEROSENE<br>RANGE<br>(ug/L) | DIESEL<br>RANGE<br>(ug/L) . | REPORTING<br>LIMIT*<br>(ug/L) |
|----------|-----------|-----------------------------|-----------------------------|-------------------------------|
| 104896-1 | MW-1      | ND                          | ND                          | 5 0                           |
| 104896-2 | MW-2      | ND                          | ND                          | 5 0                           |
| 104896-3 | MW-3      | ND                          | ND                          | 5 0                           |

ND = Not detected at or above reporting limit.

\*Reporting limit applies to all analytes.

| RPD, %      | 13  |
|-------------|-----|
| RECOVERY, % | 100 |
|             |     |



LABORATORY NUMBER: 104896-1 DATE RECEIVED: 08/20/91 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING DATE ANALYZED: 08/23,26/91

PROJECT ID: 6-91-5228 DATE REPORTED: 08/27/91

LOCATION: HERTZ SAMPLE ID: MW-1

| PARAMETER | RESULT | UNITS | REPORTING<br>LIMIT | метнор     |
|-----------|--------|-------|--------------------|------------|
| CADMI UM  | ND     | ug/L  | 10.0               | EPA 6010   |
| CHROMIUM  | ND     | ug/L  | 10.0               | - EPA 6010 |
| LEAD      | ND     | ug/L  | 3.0                | EPA 7421   |
| NICKEL    | ND     | ug/L  | 32.0               | EPA 6010   |
| ZINC      | ND     | ug/L  | 20.0               | EPA 6010   |

ND = Not detected at or above reporting limit.

|           | RPD, % | Recovery, % |  |  |  |  |  |
|-----------|--------|-------------|--|--|--|--|--|
| CADMIUM   | 2      | 97          |  |  |  |  |  |
| CHROMI UM | 3      | 101         |  |  |  |  |  |
| LEAD      | 2      | 101         |  |  |  |  |  |
| NICKEL    | 6      | 101         |  |  |  |  |  |
| ZINC      | <1     | 98          |  |  |  |  |  |
|           |        |             |  |  |  |  |  |



DATE REPORTED: 08/27/91

LABORATORY NUMBER: 104896-2 DATE RECEIVED: 08/20/91 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING DATE ANALYZED: 08/23,26/91

PROJECT ID: 6-91-5228

LOCATION: HERTZ SAMPLE ID: MW-2

| PARAMETER  | RESULT | UNITS | REPORTING<br>LIMIT | METHOD     |
|------------|--------|-------|--------------------|------------|
| CADMI UM   | ND     | ug/L  | 10.0               | EPA 6010   |
| CHROM I UM | ND     | ug/L  | 10.0               | · EPA 6010 |
| LEAD       | ND     | ug/L  | 3.0                | EPA 7421   |
| NICKEL     | ND     | ug/L  | 32.0               | EPA 6010   |
| ZINC       | ND     | ug/L  | 20.0               | EPA 6010   |

ND = Not detected at or above reporting limit.

|          | RPD, %   | Recovery, %  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|
| CADMIUM  | 2  | 97   |  |  |  |  |  |  |
| CHROMIUM | 3  | 1 0 1  |  |  |  |  |  |  |
| LEAD     | 2  | 101  |  |  |  |  |  |  |
| NICKEL   | 6  | 101  |  |  |  |  |  |  |
| ZINC     | <1   | 98   |  |  |  |  |  |  |
|          | پین چند مند کرو پیدر بدی کا چیز چند کی کام پندر کی کام کا کار کا کار کار کار کار کار کار کار ک | بعد سد دم رب بدر سه سر بدر بدر سه در بدر بدر بدر بدر بدر بدر بدر بدر بدر |  |  |  |  |  |  |



LABORATORY NUMBER: 104896-3 DATE RECEIVED: 08/20/91 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING DATE ANALYZED: 08/23,26/91

PROJECT ID: 6-91-5228

DATE REPORTED: 08/27/91

LOCATION: HERTZ SAMPLE ID: MW-3

| PARAMETER                             | RESULT               | UNITS                        | REPORTING<br>LIMIT          | METHOD                                       |
|---------------------------------------|----------------------|------------------------------|-----------------------------|--|
| CADMIUM<br>CHROMIUM<br>LEAD<br>NICKEL | ND<br>ND<br>ND<br>ND | ug/L<br>ug/L<br>ug/L<br>ug/L | 10.0<br>10.0<br>3.0<br>32.0 | EPA 7130<br>EPA 6010<br>EPA 7421<br>EPA 6010 |
| ZINC                                  | ND                   | ug/L                         | 20.0                        | EPA 6010                                     |

ND = Not detected at or above reporting limit.

|          | RPD, % | Recovery, % |  |  |
|----------|--------|-------------|--|--|
| CADMIUM  | 2      | 9 7         |  |  |
| CHROMIUM | 3      | 101         |  |  |
| LEAD     | 2      | 101         |  |  |
| NICKEL   | 6      | 101         |  |  |
| ZINC     | <1     | 98          |  |  |
|          |        |             |  |  |



DATE RECEIVED: 08/20/91

DATE ANALYZED: 08/21/91

DATE REPORTED: 08/27/91

LABORATORY NUMBER: 104896-1

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT ID: 6-91-5228

LOCATION: HERTZ SAMPLE ID: MW-1

EPA 8010 Purgeable Halocarbons in Water

| Compound                  | Result | Reporting |
|---------------------------|--------|-----------|
|                           | ug/L   | Limit     |
|                           |        | ug/L      |
| chloromethane             | ND     | 2.0       |
| bromome than e            | ND     | 2.0       |
| vinyl chloride            | ND     | 2.0       |
| chloroethane              | ND     | 2.0       |
| methylene chloride        | ND     | 2.0       |
| trichlorofluoromethane    | ND     | 1.0       |
| I, I-dichloroethene       | ND     | 1.0       |
| 1,1-dichloroethane        | ND     | 1.0       |
| cis-1,2-dichloroethene    | ND     | 1.0       |
| trans-1,2-dichloroethene  | ND     | 1.0       |
| chloroform                | ND     | 1.0       |
| freon 113                 | ND     | 1.0       |
| 1,2-dichloroethane        | ND     | 1.0       |
| l, l, l-trichloroethane   | ND     | 1.0       |
| carbon tetrachloride      | ND     | 1.0       |
| bromodichloromethane      | ND     | 1.0       |
| l, 2 - dichloropropane    | ND     | 1.0       |
| cis-l,3-dichloropropene   | ND     | 1.0       |
| trichloroethylene         | ND '   | 1.0       |
| 1,1,2-trichloroethane     | ND     | 1.0       |
| trans-1,3-dichloropropene | ND     | 1.0       |
| dibromochloromethane      | ND     | 1.0       |
| 2-chloroethyl vinyl ether | ND     | 2.0       |
| bromoform                 | ND     | 1.0       |
| tetrachloroethene         | ND     | 1.0       |
| 1,1,2,2-tetrachloroethane | ND     | 1.0       |
| chlorobenzene             | ND     | 1.0       |
| 1,3-dichlorobenzene       | ND     | 1.0       |
| 1,2-dichlorobenzene       | ND     | 1.0       |
| I, 4-dichlorobenzene      | ND     | 1.0       |

ND = Not detected at or above reporting limit.

#### QA/QC SUMMARY

RPD, %
RECOVERY, %
85



DATE REPORTED: 08/27/91

LABORATORY NUMBER: 104896-2

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

DATE RECEIVED: 08/20/91

DATE ANALYZED: 08/21/91

PROJECT ID: 6-91-5228

LOCATION: HERTZ SAMPLE ID: MW-2

### EPA 8010 Purgeable Halocarbons in Water

| Compound                  | Result | Reporting |
|---------------------------|--------|-----------|
|                           | ug/L   | Limit     |
|                           |        | ug/L      |
| chloromethane             | ND     | 2.0       |
| bromome than e            | ND     | 2.0       |
| vinyl chloride            | ND     | 2.0       |
| chloroethane              | ND     | 2.0       |
| methylene chloride        | ND     | 2.0       |
| trichlorofluoromethane    | ND     | 1.0       |
| I, I-dichloroethene       | ND     | 1.0       |
| l, l-dichloroethane       | ND     | 1.0       |
| cis-1,2-dichloroethene    | ND     | 1.0       |
| trans-1,2-dichloroethene  | ND     | 1.0       |
| chloroform                | ND     | 1.0       |
| freon 113                 | ND     | 1.0       |
| 1,2-dichloroethane        | ND     | 1.0       |
| l, l, l-trichloroethane   | ND     | 1.0       |
| carbon tetrachloride      | ND     | 1.0       |
| bromodich loromethane     | ND     | 1.0       |
| 1,2-dichloropropane       | ND     | 1.0       |
| cis-l,3-dichloropropene   | ND     | 1.0       |
| trichloroethylene         | ND     | 1.0       |
| l, l, 2 - trichloroethane | ND     | 1.0       |
| trans-1,3-dichloropropene | ND     | 1.0       |
| dibromochloromethane      | ND     | 1.0       |
| 2-chloroethyl vinyl ether | NĐ     | 2.0       |
| bromoform                 | ND     | 1.0       |
| tetrachloroethene         | ND     | 1.0       |
| 1,1,2,2-tetrachloroethane | ND     | 1.0       |
| chlorobenzene             | ND     | 1.0       |
| 1,3-dichlorobenzene       | ND     | 1.0       |
| I, 2-dichlorobenzene      | ND     | 1.0       |
| 1,4-dichlorobenzene       | ND     | 1.0       |

ND = Not detected at or above reporting limit.

| RPD, %                                 | 15 |
|--|----|
| RECOVERY, %                            | 85 |
| #===================================== |    |



DATE REPORTED: 08/27/91

LABORATORY NUMBER: 104896-3

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

DATE RECEIVED: 08/20/91

DATE ANALYZED: 08/21/91

PROJECT ID: 6-91-5228

LOCATION: HERTZ SAMPLE ID: MW-3

### EPA 8010 Purgeable Halocarbons in Water

| Compound                  | Reșult | Reporting |
|---------------------------|--------|-----------|
|                           | ug/L   | Limit     |
|                           |        | ug/L      |
| chloromethane             | ND     | 2.0       |
| bromome than e            | ND     | 2.0       |
| vinyl chloride            | ND     | 2.0       |
| chloroethane              | ND     | 2.0       |
| methylene chloride        | ND     | 2.0       |
| trichlorofluoromethane    | ND     | 1.0       |
| I, I-dichloroethene       | ND     | 1.0       |
| 1,1-dichloroethane        | ND     | 1.0       |
| cis-l, 2-dichloroethene   | ND     | 1.0       |
| trans-1,2-dichloroethene  | ND     | 1.0       |
| chloroform                | ND     | 1.0       |
| freon 113                 | ND     | 1.0       |
| 1,2-dichloroethane        | ND     | 1.0       |
| l, l, l-trichloroethane   | ND     | 1.0       |
| carbon tetrachloride      | ND     | 1.0       |
| bromodich loromethane     | ND     | 1.0       |
| l, 2-dichloropropane      | ND     | 1.0       |
| cis-1,3-dichloropropene   | ND     | 1.0       |
| trichloroethylene         | ND     | 1.0       |
| l, l, 2-trichloroethane   | ND     | 1.0       |
| trans-1,3-dichloropropene | ND     | 1.0       |
| dibromochloromethane      | ND     | 1.0       |
| 2-chloroethyl vinyl ether | ND     | 2.0       |
| bromoform                 | ND     | 1.0       |
| tetrachloroethene         | ND     | 1.0       |
| 1,1,2,2-tetrachloroethane | ND     | 1.0       |
| chlorobenzene             | ND     | 1.0       |
| 1,3-dichlorobenzene       | ND     | 1.0       |
| I, 2-dichlorobenzene      | ND     | 1.0       |
| 1,4-dichlorobenzene       | ND     | 1.0       |

ND = Not detected at or above reporting limit.

|             | جے پید سے میں بہت سے جب سے میں میں سے ایک ہیں ہے۔<br>اس پید سے میں بہت سے جب سے میں میں سے نے میں ہیں ہے۔ اس میں سے اس میں سے اس میں اس اس میں اس میں سے |
|-------------|--|
| RPD, %      | 15   |
| RECOVERY, % | 8.5  |
|             |  |



DATE ANALYZED: 08/26/91

DATE REPORTED: 08/27/91

LABORATORY NUMBER: 104896-1 DATE RECEIVED: 08/20/91 DATE EXTRACTED: 08/22/91

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT ID: 6-91-5228 LOCATION: HERTZ

CLIENT ID: MW-1

EPA 8270: Base/Neutral and Acid Extractables in Water Extraction Method: EPA 3520 Continuous Liquid/Liquid

| Extraction Method, Ela 3320 Contin |         | •         |
|------------------------------------|---------|-----------|
|                                    | RESULT  | REPORTING |
| ACID COMPOUNDS                     | ug/L    | LIMIT     |
|                                    |         | ug/L      |
| Phenol                             | ND      | 5,0       |
| 2-Chlorophenol                     | ND      | 5.0       |
| Benzyl Alcohol                     | ND      | 5.0       |
| 2-Methylphenol                     | ND      | 5.0       |
| 4-Methylphenol                     | ND      | ·5 . 0    |
| 2-Nitrophenol                      | ND      | 25        |
| 2,4-Dimethylphenol                 | ND      | 5.0       |
| Benzoic Acid                       | ND      | 25        |
| 2,4-Dichlorophenol                 | ND      | 25        |
| 4-Chloro-3-methylphenol            | ND      | 5.0       |
| 2,4,6-Trichlorophenol              | ND      | 5.0       |
| 2,4,5-Trichlorophenol              | ND      | 25        |
| 2,4-Dinitrophenoi                  | ND      | 25        |
| 4-Nitrophenol                      | ND      | 25        |
| 4,6-Dinitro-2-methylphenol         | ND      | 25        |
| Pentachlorophenol                  | ND      | 2 5       |
| BASE/NEUTRAL COMPOUNDS             |         |           |
| N-Nitrosodimethylamine             | ND      | 5.0       |
| Aniline                            | ND      | 5.0       |
| Bis(2-chloroethyl)ether            | ND      | 5.0       |
| 1,3-Dichlorobenzene                | ND      | 5.0       |
| 1,4-Dichlorobenzene                | ND      | 5.0       |
| 1,2-Dichlorobenzene                | ND      | 5.0       |
| Bis(2-chloroisopropyl)ether        | ND      | 5,0       |
| N-Nitroso-di-n-propylamine         | ND      | 5.0       |
| Hexachloroethane                   | ND      | 5.0       |
| Nitrobenzene                       | ND      | 5.0       |
| Isophorone                         | ND      | 5.0       |
| Bis(2-chloroethoxy)methane         | ND      | 5.0       |
| 1,2,4-Trichlorobenzene             | ND      | 5.0       |
| Naphthalene                        | ND      | 5.0       |
| 4-Chloroaniline                    | ND      | 5.0       |
| Hexachlorobutadiene                | ND      | 5.0       |
| 2-Methylnaphthalene                | ND      | 5.0       |
| Hexachlorocyclopentadiene          | ND      | 5.0       |
| 2 - Chloronaphthalene              | ND      | 5.0       |
| 2-Nitroaniline                     | ND      | 25        |
|                                    | A 3 arr | ~ 5       |



LABORATORY NUMBER: 104896-1

CLIENT ID: MW-1

EPA 8270

| BASE/NEUTRAL COMPOUNDS     | RESULT | REPORTING |
|----------------------------|--------|-----------|
|                            | ug/L   | LIMIT     |
|                            |        | ug/L      |
| Dimethylphthalate          | ND     | 5.0       |
| Acenaphthylene             | ND     | 5.0       |
| 2,6-Dinitrotoluene         | ND     | 5.0       |
| 3-Nitroaniline             | ND     | 2 5       |
| Acenaphthene               | ND     | 5.0       |
| Dibenzofuran               | ND     | 5.0       |
| 2,4-Dinitrotoluene         | ND     | 5.0       |
| Diethylphthalate           | ND     | 5.0       |
| 4-Chlorophenyl-phenylether | ND     | 5.0       |
| Fluorene                   | ND     | 5.0       |
| 4-Nitroaniline             | ND     | 25        |
| N-Nitrosodiphenylamine     | ND     | 5.0       |
| Azobenzene                 | ND     | 5.0       |
| 4-Bromophenyl-phenylether  | ND     | 5.0       |
| Hexachlorobenzene          | ND     | 5.0       |
| Phenanthrene               | ND     | 5.0       |
| Anthracene                 | ND     | 5.0       |
| Di-n-butylphthalate        | ND     | 5.0       |
| Fluoranthene               | ND     | 5.0       |
| Benzidine                  | ND     | 5.0       |
| Pyrene                     | ND     | 5.0       |
| Butylbenzyiphthalate       | ND     | 5.0       |
| 3,3'-Dichlorobenzidine     | ND     | 2 5       |
| Benzo (a) anthracene       | ND     | 5.0       |
| Chrysene                   | ND     | 5.0       |
| Bis(2-ethylhexyl)phthalate | ND     | 5.0       |
| Di-n-octylphthalate        | ND     | 5.0       |
| Benzo(b)fluoranthene       | ND     | 5.0       |
| Benzo(k)fluoranthene       | ND     | 5.0       |
| Benzo(a)pyrene             | ND     | 5.0       |
| Indeno(1,2,3-cd)pyrene     | ND     | 5.0       |
| Dibenzo (a, h) anthracene  | ND     | 5.0       |
| Benzo(g,h,i)perylene       | ND     | 5.0       |
|                            |        |           |

ND = Not detected at or above reporting limit.

### QA/QC SUMMARY: SURROGATE RECOVERIES

|                      | ========== |                  | ======================================= |
|----------------------|------------|------------------|---|
| 2-Fluorophenol       | 62 %       | Nitrobenzene-d5  | 61 %                                    |
| Phenol-d6            | 92 %       | 2-Fluorobiphenyl | 61 %                                    |
| 2,4,6-Tribromophenol | 69 %       | Terphenyl-d14    | 44 %                                    |



LABORATORY NUMBER: 104896-2

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING
PROJECT ID: 6-91-5228

LOCATION: HERTZ

DATE RECEIVED: 08/20/91

DATE EXTRACTED: 08/22/91

DATE REPORTED: 08/26/91

DATE REPORTED: 08/27/91

CLIENT ID: MW-2

EPA 8270: Base/Neutral and Acid Extractables in Water Extraction Method: EPA 3520 Continuous Liquid/Liquid

|                             | RESULT | REPORTING |
|-----------------------------|--------|-----------|
| ACID COMPOUNDS              | ug/L   | LIMIT     |
|                             |        | ug/L      |
| Phenol                      | ND     | 5.0       |
| 2 - Chlorophenol            | ND     | 5.0       |
| Benzyl Alcohol              | ND     | 5.0       |
| 2-Methylphenol              | ND     | 5.0       |
| 4-Methylphenol              | ND     | 50        |
| 2-Nitrophenol               | ND     | 25        |
| 2,4-Dimethylphenol          | ND     | 5.0       |
| Benzoic Acid                | ND     | 2 5       |
| 2,4-Dichlorophenoi          | ND     | 25        |
| 4-Chloro-3-methylphenol     | ND     | 5.0       |
| 2,4,6-Trichlorophenol       | ND     | 5.0       |
| 2,4,5-Trichlorophenol       | ND     | 25        |
| 2,4-Dinitrophenol           | ND     | 2 5       |
| 4-Nitrophenol               | ND     | 25        |
| 4,6-Dinitro-2-methylphenol  | ND     | 25        |
| Pentachlorophenol           | ND     | 2 5       |
| BASE/NEUTRAL COMPOUNDS      |        |           |
| N-Nitrosodimethylamine      | ND     | 5.0       |
| Aniline                     | ND     | 5.0       |
| Bis(2-chloroethyl)ether     | ND     | 5.0       |
| 1,3-Dichlorobenzene         | ND     | 5.0       |
| 1,4-Dichlorobenzene         | ND     | 5.0       |
| 1,2-Dichlorobenzene         | ND     | 5.0       |
| Bis(2-chloroisopropyl)ether | ND     | 5.0       |
| N-Nitroso-di-n-propylamine  | ND     | 5.0       |
| Hexachloroethane            | ND     | 5.0       |
| Nitrobenzene                | ND     | 5.0       |
| Isophorone                  | ND     | 5.0       |
| Bis(2-chloroethoxy)methane  | ND     | 5.0       |
| 1,2,4-Trichlorobenzene      | ND     | 5.0       |
| Naphthalene                 | ND     | 5.0       |
| 4-Chloroaniline             | ND     | 5.0       |
| Hexachlorobutadiene         | ND     | 5.0       |
| 2-Methylnaphthalene         | ND     | 5.0       |
| Hexachlorocyclopentadiene   | ND     | 5.0       |
| 2-Chloronaphthalene         | ND     | 5.0       |
| 2-Nitroaniline              | ND     | 2.5       |
|                             |        |           |



LABORATORY NUMBER: 104896-2 EPA 8270

CLIENT ID: MW-2

| BASE/NEUTRAL COMPOUNDS     | RESULT<br>ug/L | REPORTING<br>LIMIT |
|----------------------------|----------------|--------------------|
|                            | Ü              | ug/L               |
| Dimethylphthalate ·        | ND             | 5.0                |
| Acenaphthylene             | ND             | 5,0                |
| 2,6-Dinitrotoluene         | ND             | 5.0                |
| 3-Nitroaniline             | ND             | 25                 |
| Acenaphthene               | ND             | 5.0                |
| Dibenzofuran               | ND             | 5.0                |
| 2,4-Dinitrotoluene         | ND             | 5.0                |
| Diethylphthalate           | ND             | 5.0                |
| 4-Chlorophenyl-phenylether | ND             | 5.0                |
| Fluorene                   | ND             | 5.0                |
| 4-Nitroaniline             | ND             | 2 5                |
| N-Nitrosodiphenylamine     | ND             | 5.0                |
| Azobenzene                 | ND             | 5.0                |
| 4-Bromophenyl-phenylether  | ND             | 5.0                |
| Hexachlorobenzene          | ND             | 5.0                |
| Phenanthrene               | ND             | 5.0                |
| Anthracene                 | ND             | 5.0                |
| Di-n-butylphthalate        | ND             | 5,0                |
| Fluoranthene               | ND             | 5.0                |
| Benzidine                  | ND             | 5.0                |
| Pyrene                     | ND             | 5.0                |
| Butylbenzylphthalate       | ND             | 5.0                |
| 3,3'-Dichlorobenzidine     | ND             | 2 5                |
| Benzo(a)anthracene         | ND             | 5.0                |
| Chrysene                   | ND             | 5.0                |
| Bis(2-ethylhexyl)phthalate | ND             | 5.0                |
| Di-n-octylphthalate        | ND             | 5.0                |
| Benzo(b)fluoranthene       | ND             | 5.0                |
| Benzo(k)fluoranthene       | ND             | 5.0                |
| Benzo (a) pyrene           | ND             | 5.0                |
| Indeno(1,2,3-cd)pyrene     | ND             | 5.0                |
| Dibenzo(a, h) anthracene   | ND             | 5.0                |
| Benzo(g,h,i)perylene       | ND             | 5.0                |

ND = Not detected at or above reporting limit.

### QA/QC SUMMARY: SURROGATE RECOVERIES

| 2-Fluorophenol       | 65 % | Nitrobenzene-d5  | 47 %  |  |
|----------------------|------|------------------|-------|--|
| Phenol-d6            | 93 % | 2-Fluorobiphenyl | 5 5 % |  |
| 2,4,6-Tribromophenol | 64 % | Terphenyl-d14    | 37 %  |  |
|                      |      |                  |       |  |



LABORATORY NUMBER: 104896-3 DATE RECEIVED: 08/20/91

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING DATE EXTRACTED: 08/22/91

PROJECT ID: 6-91-5228

LOCATION: HERTZ

DATE ANALYZED: 08/26/91

DATE REPORTED: 08/27/91

RESULT

CLIENT ID: MW-3

### EPA 8270: Base/Neutral and Acid Extractables in Water Extraction Method: EPA 3520 Continuous Liquid/Liquid

|                             | RESULT | REPORTING |
|-----------------------------|--------|-----------|
| ACID COMPOUNDS              | ug/L   | LIMIT     |
|                             |        | ug/L      |
| Phenol                      | ND     | 5.0       |
| 2-Chlorophenol              | ND     | 5.0       |
| Benzyl Alcohol              | ND     | 5.0       |
| 2-Methylphenol              | ND     | 5.0       |
| 4-Methylphenol              | ND     | 5.0       |
| 2-Nitrophenol               | ND     | 2 5       |
| 2,4-Dimethylphenol          | ND     | 5.0       |
| Benzoic Acid                | ND     | 25        |
| 2,4-Dichlorophenol          | ND     | 2 5       |
| 4-Chioro-3-methylphenol     | ND     | 5.0       |
| 2,4,6-Trichlorophenol       | ND     | 5.0       |
| 2,4,5-Trichlorophenol       | ND     | 2 5       |
| 2,4-Dinitrophenol           | ND     | 2.5       |
| 4-Nitrophenol               | ND     | 2 5       |
| 4,6-Dinitro-2-methylphenol  | ND     | 25        |
| Pentachlorophenol           | ND     | 25        |
| •                           |        |           |
| BASE/NEUTRAL COMPOUNDS      |        |           |
| N-Nitrosodimethy lamine     | ND     | 5.0       |
| Aniline                     | ND     | 5.0       |
| Bis(2-chloroethyl)ether     | ND     | 5.0       |
| 1,3-Dichlorobenzene         | ND     | 5.0       |
| 1,4-Dichlorobenzene         | ND     | 5.0       |
| 1,2-Dichlorobenzene         | ND     | 5.0       |
| Bis(2-chloroisopropyl)ether | ND     | 5.0       |
| N-Nitroso-di-n-propylamine  | ND     | 5.0       |
| Hexachloroethane            | ND     | 5,0       |
| Nitrobenzene                | ND     | 5.0       |
| Isophorone                  | ND     | 5.0       |
| Bis(2-chloroethoxy)methane  | ND     | 5.0       |
| 1,2,4-Trichlorobenzene      | ND     | 5.0       |
| Naphthalene                 | ND     | 5.0       |
| 4-Chloroaniline             | ND     | 5.0       |
| Hexachlorobutadiene         | ND     | 5.0       |
| 2 - Methy Inaphthalene      | ND     | 5.0       |
| Hexachlorocyclopentadiene   | ND     | 5.0       |
| 2-Chloronaphthalene         | ND     | 5,0       |
| 2-Nitroaniline              | ND     | 2 5       |
|                             |        |           |



LABORATORY NUMBER: 104896-3 EPA 8270

CLIENT ID: MW-3

| BASE/NEUTRAL COMPOUNDS     | RESULT | REPORTING<br>LIMIT |
|----------------------------|--------|--------------------|
|                            | ug/L   | ug/L               |
| Dimethylphthalate          | ND     | 5.0                |
| Acenaphthylene             | ND     | 5.0                |
| 2,6-Dinitrotoluene         | ND     | 5.0                |
| 3-Nitroaniline             | ND     | 25                 |
| Acenaphthene               | ND     | 5.0                |
| Dibenzofuran               | ND     | 5.0                |
| 2,4-Dinitrotoluene         | ND     | 5.0                |
| Diethylphthalate           | ND     | 5.0                |
| 4-Chlorophenyl-phenylether | ND     | 5.0                |
| Fluorene                   | ND     | 5.0                |
| 4-Nitroaniline             | ND     | 25                 |
| N-Nitrosodiphenylamine     | ND     | 5.0                |
| Azobenzene                 | ND     | 5.0                |
| 4-Bromophenyl-phenylether  | ND     | 5.0                |
| Hexachlorobenzene          | ND     | 5.0                |
| Phenanthrene               | ND     | 5.0                |
| Anthracene                 | ND     | 5.0                |
| Di-n-butylphthalate        | NĐ     | 5.0                |
| Fluoranthene               | ND     | 5.0                |
| Benzidine                  | ND     | 5.0                |
| Pyrene                     | ND     | 5.0                |
| Butylbenzylphthalate       | ND     | 5.0                |
| 3,3'-Dichlorobenzidine     | ND     | 2 5                |
| Benzo(a)anthracene         | ND     | 5.0                |
| Chrysene                   | ND     | 5.0                |
| Bis(2-ethylhexyl)phthalate | ND     | 5.0                |
| Di-n-octylphthalate        | ND     | 5.0                |
| Benzo(b)fluoranthene       | ND     | 5.0                |
| Benzo(k) f luoranthene     | ND     | 5.0                |
| Benzo(a)pyrene             | ND     | 5.0                |
| Indeno(1,2,3-cd)pyrene     | ND     | 5.0                |
| Dibenzo(a, h) anthracene   | ND     | 5.0                |
| Benzo(g,h,i)perylene       | ND     | 5.0                |

ND = Not detected at or above reporting limit.

### QA/QC SUMMARY: SURROGATE RECOVERIES

| 2-Fluorophenol       | 7 2 | % | Nitrobenzene-d5  | 58 | % |
|----------------------|-----|---|------------------|----|---|
| Phenol-d6            | 102 | % | 2-Fluorobiphenyl | 69 | % |
| 2,4,6-Tribromophenol | 8 4 | % | Terphenyl-d14    | 48 | % |
|                      |     |   |                  |    |   |

| DATE // SC/9/ PAGE / OF /       | CHAIN OF CUSTODY RECORD                          | Environmental  |
|---------------------------------|--|--|
| PROJECT NAME // CT =            | ANALYSES TO BE PERFORMED MATRI                   | 1 1/10   |
| ADDRESS / K. Kland              | COLO COLO COLO COLO COLO COLO COLO COLO          | N C U O M N B T E A R I Concord, CA 94520 REMARKS CONTAINER, SIZE, ETC.)  Engineering, Inc. (415) 685-4053 Fax (415) 685-3323  REMARKS CONTAINER, SIZE, ETC.)  |
| PROJECT NO. 6-9/-5228           | E C C E E  | R I Concord, CA 94520 Fax (415) 685-5323   |
| LAB NAME ("Little & Tompkin     | 1  | O E REMARKS F R (CONTAINER, SIZE, ETC.)  |
| SAMPLE # DATE TIME LOCATION     |  |  |
| MV-1 8/20 1358 Onkkind          | xxxx Water                                       | - 8 51:485, 3 VOAS per   |
| 1 MW-2 1 1423                   | XXXX Waste                                       | <del></del>  |
| 1111-3 1406                     | Wats   |  |
| TED 1- 8:00 Office              | 1 lusite   | 5 Hold-  |
|                                 |  |  |
|                                 |  |  |
|                                 |  |  |
|                                 | <del>                                     </del> |  |
|                                 |  |  |
|                                 |  |  |
|                                 |  |  |
|                                 | PECETVED BY: (signature) date time               | TOTAL NUMBER OF CONTAINERS   |
| RELINQUESTED BY (signature)     | anay w 225                                       | REPORT SPECIAL SHIPMENT  |
| 2.                              |  | RESULTS TO: REQUIREMENTS   |
| 3.                              |  | tauf   |
| 4.                              | (1)  | SAMPLE RECEIPT   |
|                                 |  |  |
| INSTRUCTIONS TO LABORATORY (har | ers & Melols life's upon reciep                  | REC'D GOOD CONDIN/COLD   |
| preserve 049 111                | ers 4 Mujors and the feet of                     | CONFORMS TO RECORD   |
|                                 |  | OVALE VALUE TO THE PROPERTY OF |