



STUD 356

JSS

August 7, 1995

ENV - STUDIES, SURVEYS & REPORTS  
Former Texaco Service Station  
1127 Lincoln Avenue, Alameda, CA  
EBMUD Account No. 502-74621

Mr. Safa Toma  
East Bay Municipal Utility District  
Source Control Division, M.S. 702  
P.O. Box 24055, 375 11th Street,  
Mail slot #702  
Oakland, California 94623

Dear Mr. Toma:

Enclosed is the Semi-Annual Self-Monitoring Report Summary, dated July 31, 1995, for the subject site.

Regarding the above-referenced report,

I certify under penalty of law that, to the best of my knowledge, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Any questions regarding this report may be directed to me at (510) 236-9139.

Best Regards,

Karen E. Petryna  
Project Coordinator  
Texaco Environmental Services

KEP:eg  
P:\COVERS\KEPCVRS\1127ASMR.CVR

Enclosure

**EBMUD PERMIT ACCOUNT NO. 502-74621**  
**SELF MONITORING REPORT SUMMARY**  
**DATE SAMPLED: MONTHLY DECEMBER 03, 1994 THRU JUNE 07, 1995**

Reporting Period: 12/01/94 to 06/30/95  
 Permittee: Texaco Environmental Services  
 Site Name: Former Texaco Service Station  
 Site Address: 1127 Lincoln Ave., Alameda, CA

Due Date: 07/31/95  
 EBMUD Permit: #502-74621

Company Contact: Karen Petryna  
 Mailing Address: 108 Cutting Boulevard  
Richmond, CA 94804  
 Phone Number: (510) 236-9139

Consultant: Groundwater Technology, Inc.  
 Address: 1401 Halyard Drive, Suite 140  
West Sacramento, CA 95691  
 Contact: Brian Garber  
 Phone Number: (916) 372-4700

Any violation of waste discharge requirement during this period? Yes \_\_\_\_\_ No X  
 If yes, include attachment describing violation and corrective actions taken.

**GROUNDWATER DISCHARGE DATA**

| Sample Location | Date     | Flow Rate (gpm) | Totalizer Readings (gallons) | Cumulative Volume (gallons) | Sample Location | Date     | Flow Rate (gpm) | Totalizer Readings (gallons) | Cumulative Volume (gallons) |
|-----------------|----------|-----------------|------------------------------|-----------------------------|-----------------|----------|-----------------|------------------------------|-----------------------------|
| Effluent        | 12/13/94 | 5.0             | 663196                       | 212038                      | W-2             | 12/13/94 | N/A             | 539747                       | 539514                      |
|                 | 01/09/95 | 3.8             | 749661                       | 298503                      |                 | 01/09/95 | N/A             | N/A                          | ---                         |
|                 | 02/01/95 | 6.0             | 752758                       | 301600                      |                 | 02/01/95 | N/A             | N/A                          | ---                         |
|                 | 03/09/95 | 4.2             | 930850                       | 479692                      |                 | 03/09/95 | N/A             | 219                          | 539500                      |
|                 | 04/06/95 | 5.8             | 1048533                      | 597375                      |                 | 04/06/95 | N/A             | 53974                        | 598255                      |
|                 | 05/03/95 | 8               | 1186660                      | 735502                      |                 | 05/03/95 | N/A             | 113713                       | 652994                      |
|                 | 06/07/95 | 8               | 1335175                      | 884017                      |                 | 06/07/95 | Cycled off      | 113837                       | 653118                      |
| MW-5            | 12/13/94 | 1.57            | 296391                       | 304429                      | AUX             | 12/13/94 | N/A             | N/A                          | ---                         |
|                 | 01/09/95 | N/A             | N/A                          | ---                         |                 | 01/09/95 | N/A             | N/A                          | ---                         |
|                 | 02/01/95 | 2.13            | 328677                       | 336615                      |                 | 02/01/95 | N/A             | N/A                          | ---                         |
|                 | 03/09/95 | 1.45            | 32                           | 344585                      |                 | 03/09/95 | N/A             | N/A                          | ---                         |
|                 | 04/06/95 | 1.17            | 44282                        | 388835                      |                 | 04/06/95 | N/A             | N/A                          | ---                         |
|                 | 05/03/95 |                 | 93818                        | 438371                      |                 | 05/03/95 | N/A             | N/A                          | ---                         |
|                 | 06/07/95 | 1.41            | 161722                       | 506275                      |                 | 06/07/95 | N/A             | N/A                          | ---                         |
| W-1             | 12/13/94 | 1.93            | 34514                        | 22329                       |                 |          |                 |                              |                             |
|                 | 01/09/95 | N/A             | N/A                          | ---                         |                 |          |                 |                              |                             |
|                 | 02/01/95 | 1.29            | 54288                        | 42053                       |                 |          |                 |                              |                             |
|                 | 03/09/95 | NM              | 74                           | 54312                       |                 |          |                 |                              |                             |
|                 | 04/06/95 | 3.33            | 27276                        | 81514                       |                 |          |                 |                              |                             |
|                 | 05/03/95 | NM              | 60039                        | 114277                      |                 |          |                 |                              |                             |
|                 | 06/07/95 | Cycled off      | 97598                        | 161886                      |                 |          |                 |                              |                             |

Flow Rate for this reporting period: 3.66 gpm

Total Volume Discharged Groundwater for this reporting period: 671979 gallons

# SEMI-ANNUAL WATER REPORTING

| Sample Location   | Date     | TPH-G (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|-------------------|----------|-------------|---------------|---------------|--------------------|---------------|
| <b>Influent</b>   |          |             |               |               |                    |               |
|                   | 12/13/94 | 960         | 110           | 21            | 60                 | 160           |
|                   | 01/09/95 | 330         | 2.3           | 0.69          | 0.65               | 35            |
|                   | 02/01/95 | 100         | 5.2           | 2.2           | 2                  | 14            |
|                   | 03/09/95 | 470         | 65            | 19            | 15                 | 46            |
|                   | 04/06/95 | 1,200       | 210           | 35            | 47                 | 140           |
|                   | 05/03/95 | 590         | 79            | 18            | 10                 | 30            |
|                   | 06/07/95 | 540         | 95            | 19            | 5.8                | 34            |
| <b>Carbon Inf</b> |          |             |               |               |                    |               |
|                   | 12/13/94 | 50          | 1.40          | 0.95          | 0.7                | 3.0           |
|                   | 01/09/95 | 53          | 0.63          | 1.1           | 0.66               | 5.3           |
|                   | 02/01/95 | N/D         | 1.00          | 0.70          | N/D                | 2.9           |
|                   | 03/09/95 | 65          | 2.80          | 1.3           | 1.8                | 5.5           |
|                   | 04/06/95 | 140         | 27            | 4.6           | 4.5                | 16            |
|                   | 05/03/95 | 170         | 11            | 4.2           | 5.1                | 9.5           |
|                   | 06/07/95 | 310         | 50            | 11            | 3.9                | 25            |
| <b>BT-1</b>       |          |             |               |               |                    |               |
|                   | 12/13/94 | N/D         | 1.1           | N/D           | 0.56               | 2.0           |
|                   | 01/09/95 | N/D         | N/D           | N/D           | N/D                | N/D           |
|                   | 02/01/95 | N/D         | N/D           | N/D           | N/D                | N/D           |
|                   | 03/09/95 | 50          | 0.83          | N/D           | 0.89               | 2.5           |
|                   | 04/06/95 | 160         | 10            | 1.7           | 1.7                | 5.7           |
|                   | 05/03/95 | 230         | 0.97          | 0.73          | N/D                | N/D           |
|                   | 06/07/95 | 160         | 17            | 8.3           | 0.81               | 4.9           |
| <b>Effluent</b>   |          |             |               |               |                    |               |
|                   | 12/13/94 | N/D         | 0.65          | 0.67          | N/D                | 1.4           |
|                   | 01/09/95 | N/D         | N/D           | N/D           | N/D                | N/A           |
|                   | 02/01/95 | N/D         | N/D           | N/D           | N/D                | N/A           |
|                   | 03/09/95 | N/D         | N/D           | N/D           | N/D                | N/A           |
|                   | 04/06/95 | N/D         | N/D           | N/D           | N/D                | N/A           |
|                   | 05/03/95 | 92          | 5.8           | 1.7           | 2.4                | 4.2           |
|                   | 06/07/95 | N/D         | 3.8           | 1.4           | N/D                | 0.87          |

**Explanation:**

TPG-G = Total petroleum hydrocarbons-as-gasoline  
 -- = Not Analyzed  
 gpm = Gallons per minute      N/A = Not applicable  
 pgd = Gallons per day          umhos/cm = Micromhos per centimeter  
 NM = Not measured              g/day = Grams per day  
 ppb = Parts per billion        ND = Not detected

Note: Certified analytical laboratory reports enclosed.

\* Batteries in MW-5, W-1 and W-2 totalizers failed in January 1995 and were replaced. Total flow extrapolated from Historical and curr

Company : Groundwater Technology, Inc.

Signature: 

Brian H. Garber  
 Project Manager

SA795.WK3 (TES-01)

Date: 7/24/95

**SITE VISITATION FORM  
FOR  
WASTEWATER DISCHARGE SAMPLING  
SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln Alameda

Site Address

Sampled By: Mark Czipka

Date: 12/13/94

**SYSTEM CHECK / READINGS**

| If Applicable                           | Yes | No | N/A |
|---|-----|----|-----|
| Is System Operational                   | ✓   |    |     |
| 2nd Contain. Float Switch Working       | ✓   |    |     |
| Adjust Flow Rate                        |     | ✓  |     |
| Filter Checked and <del>Cleaned</del>   | ✓   |    |     |
| Strainer Checked and <del>Cleaned</del> | ✓   |    |     |
| Check/Add Water Conditioner             |     | ✓  |     |
| Calibrate LEL                           |     |    | ✓   |

Air Velocity Extraction 3" = 700 fpm Discharge 2" = 4250 fpm  
Extraction well 17" H<sub>2</sub>O

|                                 | N/A | Field Data       |
|---------------------------------|-----|------------------|
| Effluent Totalizer (gal)        |     | 0663196          |
| Effluent Flow Rate (gpm)        |     | 5.0              |
| Aeration Pressure (psi)         |     | <del>100</del> 0 |
| Bag Filter INFL Pressure (psi)  |     | 0                |
| Bag Filter EFFL Pressure (psi)  | ✓   |                  |
| Carbon Vessel #1 Pressure (psi) |     | 28   12          |
| Carbon Vessel #2 Pressure (psi) |     | 715   4          |
| Air Compressor Pressure (psi)   |     | 0 MKO            |
| Hour Meter (hours)              | ✓   |                  |

**SYSTEM SAMPLING**

Collect water samples from INF, A-INF, B-BT-1, and C-EFF.

|   | Sample Point<br><u>INF TO 1ST</u> | Sample Point<br><u>INF TO 2ND</u> | Sample Point<br><u>INF TO 3RD</u> | Sample Point<br><u>EFF</u> |
|---|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| Temperature (°F) FID                    | 10                                | 2                                 | 2                                 | 55                         |
| pH (units) FID w/Carbon                 | 2                                 | 2                                 | 2                                 | 2                          |
| Dissolved O <sub>2</sub> (ppm) Adjusted | 8                                 | 0                                 | 0                                 | 53                         |
| Electrical Conductivity Sampled         |                                   |                                   |                                   | sampled                    |

**WELL READINGS**

Well # MN5      Well # W1      Well # W2      Well # AUX

|                      |        |         |     |     |
|----------------------|--------|---------|-----|-----|
| Flow Totalizer (gpm) | 296491 | 31514.4 | N/A | N/A |
| Flow Rate (gpm)      | 1.57   | 1.93    | ↓   | ↓   |
| Hour Meter (hours)   |        |         |     |     |
| DTW from TOC (ft)    |        |         |     |     |

- +

**SITE VISITATION FORM**  
FOR  
**WASTEWATER DISCHARGE SAMPLING**  
**SYSTEM OPERATION AND MAINTENANCE**

1127 LINCOLN Alameda  
Site Address

Sampled By: Greg MASON

Date: 1/9/95

| If Applicable                     | SYSTEM CHECK / READINGS |              | N/A              | Field Data                      |                     |
|-----------------------------------|-------------------------|--------------|------------------|---------------------------------|---------------------|
|                                   | Depart<br>Yes           | arrive<br>No |                  |                                 |                     |
| Is System Operational             | X                       | X            |                  | Effluent Totalizer (gal)        | 749661              |
| 2nd Contain. Float Switch Working | X                       |              |                  | Effluent Flow Rate (gpm)        | 3.8                 |
| Adjust Flow Rate                  |                         | X            |                  | Aeration Pressure (psi)         | Q                   |
| Filter Checked and Cleaned        | X                       |              |                  | Bag Filter INFL Pressure (psi)  | Q                   |
| Strainer Checked and Cleaned      | X                       |              |                  | Bag Filter EFFL Pressure (psi)  | X                   |
| Check/Add Water Conditioner       |                         | X            | off              | Carbon Vessel #1 Pressure (psi) | 12 arr. 3 psi DEPAR |
| Calibrate LEL                     |                         |              |                  | Carbon Vessel #2 Pressure (psi) | X                   |
| 2" AIRATION TANK 300 FPM          |                         |              | 42" WATER VACUUM | Air Compressor Pressure (psi)   | Q                   |
| 2" V.E. DISH 3200 FPM             |                         |              |                  | Hour Meter (hours)              | X                   |

**SYSTEM SAMPLING**

|   | Sample Point<br><u>INF TO 1st</u> | Sample Point<br><u>INF TO 2nd</u> | Sample Point<br><u>INF TO 3rd</u> | Sample Point<br><u>EFF</u> |
|---|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| Temperature (F) FID                     | 300                               | 1                                 | 1                                 | 1                          |
| pH (units) FID w carbon                 | 13.0                              | 1                                 | 1                                 | 1                          |
| Dissolved O <sub>2</sub> (ppm) adjusted | 287                               | 0                                 | 0                                 | 0                          |
| Electrical Conductivity                 |                                   |                                   |                                   |                            |

**WELL READINGS**

Well # MW-5      Well # MW-1      Well # \_\_\_\_\_      Well # \_\_\_\_\_

|                      |                |                |  |  |
|----------------------|----------------|----------------|--|--|
| Flow Totalizer (gpm) | <u>flooded</u> | <u>CAR OVR</u> |  |  |
| Flow Rate (gpm)      |                |                |  |  |
| Hour Meter (hours)   |                |                |  |  |
| DTW from TOC (ft)    |                |                |  |  |

**SITE VISITATION FORM**  
FOR  
**WASTEWATER DISCHARGE SAMPLING**  
**SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln, Alameda

Site Address

Sampled By:

Mark Czipka

Date:

2/1/95

**SYSTEM CHECK / READINGS**

| If Applicable                     | Yes | No | N/A               |
|-----------------------------------|-----|----|-------------------|
| Is System Operational             |     | ✓  | Aeration Tank H/L |
| 2nd Contain. Float Switch Working | ✓   |    |                   |
| Adjust Flow Rate                  | ✓   |    |                   |
| Filter Checked and Cleaned        | ✓   |    |                   |
| Strainer Checked and Cleaned      | ✓   |    |                   |
| Check/Add Water Conditioner       |     | ✓  |                   |
| Calibrate LEL                     |     |    | ✓                 |

Air Velocity Extraction = N/A

Discharge = N/A

Extraction Well = 50" H<sub>2</sub>O

Moisture Knockout Full

|                                 | N/A | Field Data |
|---------------------------------|-----|------------|
| Effluent Totalizer (gal)        |     | 0752758    |
| Effluent Flow Rate (gpm)        |     | 6.0        |
| Aeration Pressure (psi)         |     | ∅          |
| Bag Filter INFL Pressure (psi)  |     | 5.∅        |
| Bag Filter EFFL Pressure (psi)  | ✓   |            |
| Carbon Vessel #1 Pressure (psi) |     | 2.∅        |
| Carbon Vessel #2 Pressure (psi) | ✓   |            |
| Air Compressor Pressure (psi)   |     | ∅ mko      |
| Hour Meter (hours)              | ✓   |            |

Collected Water Samples for  
INF, A-INF, B-BTI, C-EFF

**SYSTEM SAMPLING**

|                                      | Sample Point<br>INF 1ST | Sample Point<br>INF 2ND | Sample Point<br>INF 3RD | Sample Point<br>EFF |
|--------------------------------------|-------------------------|-------------------------|-------------------------|---------------------|
| Temperature (°F) FID                 | 1                       | 1                       | 1                       | 8                   |
| pH (units) FID w/ Carbon             | 1                       | 1                       | 1                       | 1                   |
| Dissolved O <sub>2</sub> (ppm) Admit | ∅                       | ∅                       | ∅                       | 7                   |
| Electrical Conductivity              | Sampled                 | Sampled                 |                         | Sampled             |

**WELL READINGS**

Well # AWS

Well # W1

Well # W2

Well # AUX

|                      |        |         |     |     |
|----------------------|--------|---------|-----|-----|
| Flow Totalizer (gpm) | 2.13   | 1.29    | N/A | N/A |
| Flow Rate (gpm)      | 228677 | 54239.6 | ↓   | ↓   |
| Hour Meter (hours)   | /      | /       | ↓   | ↓   |
| DIW from TOC (ft)    |        |         |     |     |

**SITE VISITATION FORM**  
FOR  
**WASTEWATER DISCHARGE SAMPLING**  
**SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln, Alameda  
Site Address

Sampled By: Mark Czipka

Date: 3/9/95

**SYSTEM CHECK / READINGS**

| If Applicable                                     | Yes | No | N/A |
|---|-----|----|-----|
| Is System Operational <u>2nd Contain H/L Norm</u> |     | ✓  |     |
| 2nd Contain Float Switch Working                  | ✓   |    |     |
| Adjust Flow Rate                                  | ✓   |    |     |
| Filter Checked and Cleaned                        | ✓   |    |     |
| Strainer Checked and Cleaned                      | ✓   |    |     |
| Check/Add Water Conditioner                       |     | ✓  |     |
| Calibrate LEL                                     |     |    | ✓   |

|                                 | N/A | Field Data |
|---------------------------------|-----|------------|
| Effluent Totalizer (gal)        |     | 0930850    |
| Effluent Flow Rate (gpm)        |     | 3.5 / 4.2  |
| Aeration Pressure (psi)         |     | ∅          |
| Bag Filter INFL Pressure (psi)  |     | ∅          |
| Bag Filter EFFL Pressure (psi)  | ✓   |            |
| Carbon Vessel #1 Pressure (psi) |     | 19 / 10    |
| Carbon Vessel #2 Pressure (psi) |     | 9 / 8      |
| Air Compressor Pressure (psi)   | ✓   |            |
| Hour Meter (hours)              | ✓   |            |

Collected Water Samples

**SYSTEM SAMPLING**

|                                | Sample Point<br><u>INF</u> | Sample Point<br><u>A-INF</u> | Sample Point<br><u>B-BT-2</u> | Sample Point<br><u>C-EFF</u> |
|--------------------------------|----------------------------|------------------------------|-------------------------------|------------------------------|
| Temperature (F)                | NOT REQ'D                  | →                            |                               |                              |
| pH (units)                     | ↓                          | ↓                            | ↓                             | ↓                            |
| Dissolved O <sub>2</sub> (ppm) | ↓                          | ↓                            | ↓                             | ↓                            |
| Electrical Conductivity        | ↓                          | ↓                            | ↓                             | ↓                            |

\* INSTALLED NEW BATTERIES

IN ALL FLOW TOTALIZER

**WELL READINGS**

Well # MWS

Well # W1

Well # W2

Well # AUX

ALL  
START  
AT ∅gub

|                      |       |       |        |     |
|----------------------|-------|-------|--------|-----|
| Flow Totalizer (gph) | 31.99 | 74.08 | 219.25 | ∅   |
| Flow Rate (gpm)      | 1.45  |       | N/A    | N/A |
| Hour Meter (hours)   |       |       |        |     |
| DW from TOC (ft)     |       |       |        |     |

**SITE VISITATION FORM**  
**FOR**  
**WASTEWATER DISCHARGE SAMPLING**  
**SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln, Alameda  
 Site Address

Sampled By: Mark N Czipka

Date: 4/6/95

**SYSTEM CHECK / READINGS**

| If Applicable                           | Yes | No | N/A |
|---|-----|----|-----|
| Is System Operational                   | ✓   |    |     |
| 2nd Contain. Float Switch Working       | ✓   |    |     |
| Adjust Flow Rate                        |     | ✓  |     |
| Filter Checked <del>and Cleaned</del>   | ✓   |    |     |
| Strainer Checked <del>and Cleaned</del> | ✓   |    |     |
| Check/Add Water Conditioner             |     | ✓  |     |
| Calibrate LEL                           |     |    | ✓   |

|                                 | N/A | Field Data |
|---------------------------------|-----|------------|
| Effluent Totalizer (gal)        |     | 1048533    |
| Effluent Flow Rate (gpm)        |     | 5.8        |
| Aeration Pressure (psi) MKO     |     | ∅          |
| Bag Filter INFL Pressure (psi)  |     | ∅          |
| Bag Filter EFFL Pressure (psi)  | ✓   |            |
| Carbon Vessel #1 Pressure (psi) |     | 10.5       |
| Carbon Vessel #2 Pressure (psi) |     | 9          |
| Air Compressor Pressure (psi)   | ✓   |            |
| Hour Meter (hours)              | ✓   |            |

**SYSTEM SAMPLING**

Collected Water Samples

|                                | Sample Point<br><u>INF</u> | Sample Point<br><u>A-INF</u> | Sample Point<br><u>B-BT1</u> | Sample Point<br><u>C-EFF</u> |
|--------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| Temperature (F)                | NOT REQD                   | —————                        | —————                        | —————                        |
| pH (units)                     | ↓                          | ↓                            | ↓                            | ↓                            |
| Dissolved O <sub>2</sub> (ppm) | ↓                          | ↓                            | ↓                            | ↓                            |
| Electrical Conductivity        | ↓                          | ↓                            | ↓                            | ↓                            |

**WELL READINGS**

Well # MWS      Well # W1      Well # W2      Well # AUX

|                      |         |        |         |   |
|----------------------|---------|--------|---------|---|
| Flow Totalizer (gpm) | 1.17    | 3.33   | N/A     | ∅ |
| Flow Rate (gpm)      | 44282.7 | 272763 | 53974.7 | ∅ |
| Hour Meter (hours)   |         |        |         |   |
| DTW from TOC (ft)    |         |        |         |   |



**SITE VISITATION FORM**  
**FOR**  
**WASTEWATER DISCHARGE SAMPLING**  
**SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln, OAKLAND

Site Address

Sampled By: Chris McCormack

Date: 5-3-95

**SYSTEM CHECK / READINGS**

| If Applicable                     | Yes | No | N/A |
|-----------------------------------|-----|----|-----|
| Is System Operational             | X   |    |     |
| 2nd Contain. Float Switch Working | X   |    |     |
| Adjust Flow Rate                  |     |    |     |
| Filter Checked and Cleaned        |     | X  |     |
| Strainer Checked and Cleaned      |     | X  |     |
| Check/Add Water Conditioner       |     | X  |     |
| Calibrate LEL                     |     |    | X   |

|                                 | N/A | Field Data            |
|---------------------------------|-----|-----------------------|
| Effluent Totalizer (gal)        |     | 1186660               |
| Effluent Flow Rate (gpm)        |     | Cycling @ 8 GPM       |
| Aeration Pressure (psi) MFO     | →   | 2-3 psi - not checked |
| Bag Filter INFL Pressure (psi)  |     | 5 PSI                 |
| Bag Filter EFFL Pressure (psi)  | ✗   | 5 PSI                 |
| Carbon Vessel #1 Pressure (psi) |     | 3                     |
| Carbon Vessel #2 Pressure (psi) |     | 3                     |
| Air Compressor Pressure (psi)   | X   |                       |
| Hour Meter (hours)              | X   |                       |

**SYSTEM SAMPLING**

|                                 | Sample Point                  | Sample Point | Sample Point | Sample Point |
|---------------------------------|-------------------------------|--------------|--------------|--------------|
| Temperature (F)                 | TOOK SYSTEM SAMPLES           |              |              |              |
| pH (units)                      |                               |              |              |              |
| Dissovlved O <sub>2</sub> (ppm) | INF, INF CARB, CARB MID & EFF |              |              |              |
| Electrical Conductivity         | FOR BTEX TSP GAS              |              |              |              |

**WELL READINGS**

Well # MW-5      Well # W-1      Well # W-2      Well # AUX

|                       |       |       |        |   |
|-----------------------|-------|-------|--------|---|
| Flow Totalizer (gpm)  | 93818 | 60039 | 113713 | — |
| Flow Rate (gpm)       |       |       |        | — |
| Hour Meter (hours)    |       |       |        |   |
| DTW from TOL (ft) PSI | 15    | 35    | 25     |   |

**SITE VISITATION FORM  
FOR  
WASTEWATER DISCHARGE SAMPLING  
SYSTEM OPERATION AND MAINTENANCE**

1127 LINCOLN, ALAMEDA  
Site Address

Sampled By: STEVEN STREM

Date: 6-6-95

**SYSTEM CHECK / READINGS**

| If Applicable                     | Yes | No | N/A |
|-----------------------------------|-----|----|-----|
| Is System Operational             | ✓   |    |     |
| 2nd Contain. Float Switch Working | ✓   |    |     |
| Adjust Flow Rate                  |     | ✓  |     |
| Filter Checked and Cleaned        | ✓   |    |     |
| Strainer Checked and Cleaned      | ✓   |    |     |
| Check/Add Water Conditioner       |     | ✓  |     |
| Calibrate LEL                     |     |    | ✓   |

|                                 | N/A | Field Data |
|---------------------------------|-----|------------|
| Effluent Totalizer (gal)        |     | 1335175    |
| Effluent Flow Rate (gpm)        |     |            |
| Aeration Pressure (psi)         |     | Ø          |
| Bag Filter INFL Pressure (psi)  |     | Ø          |
| Bag Filter EFFL Pressure (psi)  | ✓   |            |
| Carbon Vessel #1 Pressure (psi) |     |            |
| Carbon Vessel #2 Pressure (psi) |     |            |
| Air Compressor Pressure (psi)   | ✓   |            |
| Hour Meter (hours)              | ✓   |            |

**SYSTEM SAMPLING**

— NONE —

|                                | Sample Point | Sample Point | Sample Point | Sample Point |
|--------------------------------|--------------|--------------|--------------|--------------|
| Temperature (F)                |              |              |              |              |
| pH (units)                     |              |              |              |              |
| Dissolved O <sub>2</sub> (ppm) |              |              |              |              |
| Electrical Conductivity        |              |              |              |              |

**WELL READINGS**

Well # MW-5      Well # W-1      Well # W2      Well # AUX

|                      |          |            |            |     |
|----------------------|----------|------------|------------|-----|
| Flow Totalizer (gpm) | 161722.0 | 97598.1    | 113837.0   | 0   |
| Flow Rate (gpm)      | 1.41     | CYCLED OFF | CYCLED OFF | N/A |
| Hour Meter (hours)   | —        | —          | —          | —   |
| DTW from TOC (ft)    | —        | —          | —          | —   |

← Not working

801 Western Avenue  
 Glendale, CA 91201  
 818/247-5737  
 Fax: 818/247-9797

LOG NO: G94-12-236

Received: 13 DEC 94

Mailed: DEC 29

Mr. Brian Garber  
 Groundwater Technology, Inc.  
 1401 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) | Date Analyzed Date | Dilution Factor Times | TPH-g | Benzene | Toluene | Ethyl-Benzene | Total Xylenes Isomers |
|--------------------|--------------|-----------------------|--------------------|-----------------------|-------|---------|---------|---------------|-----------------------|
|                    |              |                       |                    |                       | ug/L  | ug/L    | ug/L    | ug/L          | ug/L                  |
| RDL                |              |                       |                    | 1                     |       | 0.5     | 0.5     | 0.5           | 0.5                   |
| 1*1NF              | 12/13/94     | 12/21/94              |                    | 5                     | 960   | 110     | 21      | 60            | 160                   |
| 2*A-1NF            | 12/13/94     | 12/20/94              |                    | 1                     | 50    | 1.4     | 0.95    | 0.70          | 3.0                   |
| 3*B-B1-1           | 12/13/94     | 12/20/94              |                    | 1                     | <50   | 1.1     | 0.73    | 0.56          | 2.0                   |
| 4*C-EFF            | 12/13/94     | 12/20/94              |                    | 1                     | <50   | 0.65    | 0.67    | <0.5          | 1.4                   |

Karen Petryna  
 1127 Lincoln Ave., Alameda  
 Alameda County

*Mark A. Valentini*  
 Mark A. Valentini, PhD, Laboratory Director



ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9412236 :  
 BC ANALYTICAL : GLEN LAB : 14:59:43 28 DEC 1994 - P. 1 :  
 =====

| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....   | DATE.....<br>ANALYZED | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|---------------|-----------------------|-------------|--------|---------|-------|
| 9412236*1  | INF                  | GAS.BTX.TESNC | 12.21.94              | 8015M.TX    | 516-20 | 948063  | 8607  |
| 9412236*2  | A-INF                | GAS.BTX.TESNC | 12.20.94              | 8015M.TX    | 516-24 | 947131  | 8523  |
| 9412236*3  | B-BT-1               | GAS.BTX.TESNC | 12.20.94              | 8015M.TX    | 516-24 | 947131  | 8523  |
| 9412236*4  | C-EFF                | GAS.BTX.TESNC | 12.20.94              | 8015M.TX    | 516-24 | 947131  | 8523  |

\*\*\*

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.  
 ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9412236

DATE REPORTED : 12/28/94

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER                             | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY |
|---------------------------------------|---------------|--------------|-----------|-----------|------|------------------|
| 1. TPH-gas/BTEX (CADHS/80 C4122187*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 12.21.94      | 948063       | 12/21/94  | 12/221/   | Date | N/A              |
| Toluene                               | 12.21.94      | 948063       | 60.6      | 55.5      | ug/L | 109              |
| Ethylbenzene                          | 12.21.94      | 948063       | 12.5      | 12.5      | ug/L | 100              |
| Total Xylene Isomers                  | 12.21.94      | 948063       | 70.0      | 66.5      | ug/L | 105              |
| 2. TPH-gas/BTEX (CADHS/80 C4122646*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 12.20.94      | 947131       | 12/20/94  | 12/20/94  | Date | N/A              |
| Benzene                               | 12.20.94      | 947131       | 11.2      | 12.5      | ug/L | 90               |
| Toluene                               | 12.20.94      | 947131       | 45.8      | 55.5      | ug/L | 83               |
| Ethylbenzene                          | 12.20.94      | 947131       | 10.6      | 12.5      | ug/L | 85               |
| Total Xylene Isomers                  | 12.20.94      | 947131       | 55.2      | 66.5      | ug/L | 83 Q             |
| TPH (as Gasoline)                     | 12.20.94      | 947131       | 767       | 1000      | ug/L | 77               |

BC ANALYTICAL

ORDER QC REPORT FOR G9412236

DATE REPORTED : 12/28/94

MATRIX QC PRECISION (DUPLICATE SPIKES)  
BATCH QC REPORT

| PARAMETER                            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|--------------------------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. TPH-gas/BTEX (CADHS/80 9412273*6) |               |               |              |           |            |      |                 |
| Date Analyzed                        |               | 12.21.94      | 948063       | 12/21/94  | 12/22/94   | Date | N/A             |
| Benzene                              |               | 12.21.94      | 948063       | 16.0      | 17.0       | ug/L | 6               |
| Toluene                              |               | 12.21.94      | 948063       | 60.5      | 68.7       | ug/L | 13              |
| Ethylbenzene                         |               | 12.21.94      | 948063       | 13.6      | 14.2       | ug/L | 4               |
| TPH (as Gasoline)                    |               | 12.21.94      | 948063       | 893       | 804        | ug/L | 10              |
| 2. TPH-gas/BTEX (CADHS/80 9412236*4) |               |               |              |           |            |      |                 |
| Date Analyzed                        |               | 12.20.94      | 947131       | 12/20/94  | 12/20/94   | Date | N/A             |
| Benzene                              |               | 12.20.94      | 947131       | 8.79      | 9.86       | ug/L | 11              |
| Toluene                              |               | 12.20.94      | 947131       | 46.9      | 51.9       | ug/L | 10              |
| Ethylbenzene                         |               | 12.20.94      | 947131       | 11.2      | 12.1       | ug/L | 8               |
| Total Xylene Isomers                 |               | 12.20.94      | 947131       | 56.6      | 62.9       | ug/L | 11              |
| TPH (as Gasoline)                    |               | 12.20.94      | 947131       | 820       | 674        | ug/L | 20              |

BC ANALYTICAL

ORDER QC REPORT FOR G9412236

DATE REPORTED : 12/28/94

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

| PARAMETER                            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS %  | MSD % | TRUE RESULT | UNIT |   |
|--------------------------------------|---------------|---------------|--------------|-------|-------|-------------|------|---|
| 1. TPH-gas/BTEX (CADHS/80 9412273*6) |               |               |              |       |       |             |      |   |
| Benzene                              |               | 12.21.94      | 948063       | 128 Q | 136 Q | 12.5        | ug/L | Q |
| Toluene                              |               | 12.21.94      | 948063       | 109   | 124   | 55.5        | ug/L |   |
| Ethylbenzene                         |               | 12.21.94      | 948063       | 109   | 114   | 12.5        | ug/L |   |
| TPH (as Gasoline)                    |               | 12.21.94      | 948063       | 89    | 80    | 1000        | ug/L |   |
| 2. TPH-gas/BTEX (CADHS/80 9412236*4) |               |               |              |       |       |             |      |   |
| Benzene                              |               | 12.20.94      | 947131       | 65 Q  | 73    | 13.2        | ug/L | Q |
| Toluene                              |               | 12.20.94      | 947131       | 83    | 92    | 56.2        | ug/L |   |
| Ethylbenzene                         |               | 12.20.94      | 947131       | 90    | 97    | 12.5        | ug/L |   |
| Total Xylene Isomers                 |               | 12.20.94      | 947131       | 83    | 92    | 67.9        | ug/L |   |
| TPH (as Gasoline)                    |               | 12.20.94      | 947131       | 82    | 67    | 1000        | ug/L |   |

BC ANALYTICAL

ORDER QC REPORT FOR G9412236

Page 1

DATE REPORTED : 12/28/94

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

| PARAMETER                             | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT | METHOD   |
|---------------------------------------|---------------|--------------|--------------|-----|------|----------|
| 1. TPH-gas/BTEX (CADHS/80 B4121521*1) |               |              |              |     |      |          |
| Date Analyzed                         | 12.21.94      | 948063       | 12/21/94     | NA  | Date | 8015M.TX |
| Benzene                               | 12.21.94      | 948063       | 0.079        | 0.5 | ug/L | 8015M.TX |
| Toluene                               | 12.21.94      | 948063       | 0.20         | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                          | 12.21.94      | 948063       | 0.11         | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers                  | 12.21.94      | 948063       | 0.13         | 0.5 | ug/L | 8015M.TX |
| TPH (as Gasoline)                     | 12.21.94      | 948063       | 14           | 50  | ug/L | 8015M.TX |
| 2. TPH-gas/BTEX (CADHS/80 B4121437*1) |               |              |              |     |      |          |
| Date Analyzed                         | 12.20.94      | 947131       | 12/20/94     | NA  | Date | 8015M.TX |
| Benzene                               | 12.20.94      | 947131       | 0            | 0.5 | ug/L | 8015M.TX |
| Toluene                               | 12.20.94      | 947131       | 0.21         | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                          | 12.20.94      | 947131       | 0            | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers                  | 12.20.94      | 947131       | 0.23         | 0.5 | ug/L | 8015M.TX |
| TPH (as Gasoline)                     | 12.20.94      | 947131       | 16           | 50  | ug/L | 8015M.TX |



: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 15:00:17 28 DEC 1994 - P. 1 :  
=====

| METHOD    | ANALYTE                | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-----------|------------------------|--------|----------|----------|------|------|------|
| 9412236*1 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 53.8     | 50.0 | 108  |      |
| 9412236*2 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 51.9     | 50.0 | 104  |      |
| 9412236*3 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 46.6     | 50.0 | 93   |      |
| 9412236*4 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 51.2     | 50.0 | 102  |      |

| METHOD        | ANALYTE                | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|---------------|------------------------|--------|----------|----------|------|------|------|
| 9412236*4*R1  |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 51.2     | 50.0 | 102  |      |
| 9412236*4*S1  |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 58.2     | 50.0 | 116  |      |
| 9412236*4*S2  |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 55.5     | 50.0 | 111  |      |
| 9412236*4*T   |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 50.0     | 50.0 | 100  |      |
| 9412273*6*R1  |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 54.2     | 50.0 | 108  |      |
| 9412273*6*S1  |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 54.0     | 50.0 | 108  |      |
| 9412273*6*S2  |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/22/94 | 50.6     | 50.0 | 101  |      |
| 9412273*6*T   |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 50.0     | 50.0 | 100  |      |
| B4121437*1*MB |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 56.1     | 50.0 | 112  |      |
| B4121521*1*MB |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 52.9     | 50.0 | 106  |      |
| C4122187*1*LC |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 53.5     | 50.0 | 107  |      |
| C4122187*1*LT |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 948063 | 12/21/94 | 50.0     | 50.0 | 100  |      |
| C4122646*1*LC |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 48.2     | 50.0 | 96   |      |
| C4122646*1*LT |                        |        |          |          |      |      |      |
| 8015M.TXa     | a,a,a-Trifluorotoluene | 947131 | 12/20/94 | 50.0     | 50.0 | 100  |      |

CHAIN OF CUSTODY RECORD

EST 112 / LINDEN, MOUNTAIN

BCA Log Number 6941236

| Client name<br><b>Ground Water Technology, Inc</b> |              |              |                       | Project or PO#<br><b>020700006.051005</b> |                      | Analyses required   |  |  |  |  |  |                         |
|--|--------------|--------------|-----------------------|---|----------------------|---|--|--|--|--|--|-------------------------|
| Address<br><b>1401 Halyard Suite 140</b>           |              |              |                       | Phone #<br><b>(916) 372-4700</b>          |                      | <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">                     BTEX, TPH, es, Cas<br/>                     Hazardous sample<br/>                     Special handling required                 </div> |  |  |  |  |  |                         |
| City, State, Zip<br><b>West Sacramento, CA</b>     |              |              |                       | Report attention<br><b>Brian Garber</b>   |                      |   |  |  |  |  |  |                         |
| Lab Sample number                                  | Date sampled | Time sampled | Type<br>See key below | Sampled by<br><b>Mark Czypka</b>          | Number of containers |   |  |  |  |  |  | Remarks                 |
|  |              |              |                       | Sample description                        |                      |   |  |  |  |  |  |                         |
|  | 12/13/94     | 10:57        | GW                    | INF                                       | 2                    | X   |  |  |  |  |  | 40ml VOA presu with HCL |
|  | ↓            | 10:59        | ↓                     | A-INF                                     | ↓                    | X   |  |  |  |  |  | ↓                       |
|  | ↓            | 11:02        | ↓                     | B-BT-1                                    | ↓                    | X   |  |  |  |  |  | ↓                       |
|  | ↓            | 11:04        | ↓                     | C-EFF                                     | ↓                    | X   |  |  |  |  |  | ↓                       |

| Signature                          | Print Name           | Company                             | Date            | Time         |
|------------------------------------|----------------------|-------------------------------------|-----------------|--------------|
| Relinquished by <i>Mark Czypka</i> | <b>Mark A Czypka</b> | <b>Ground Water Technology, Inc</b> | <b>12/13/94</b> | <b>17:00</b> |
| Received by <i>Jan Winter</i>      | <b>Jan Winter</b>    | <b>BCA</b>                          | <b>12/13/94</b> | <b>1700</b>  |
| Relinquished by                    |                      |                                     |                 |              |
| Received by                        |                      |                                     |                 |              |
| Relinquished by                    |                      |                                     |                 |              |
| Received by Laboratory             |                      |                                     |                 |              |

**B C ANALYTICAL**

1085 Shary Circle, Concord, CA 94518 (510) 825-3894  
 1801 Western Avenue, Glendale, CA 91201 (818) 247-5737  
 11500 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.  
 Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: \_\_\_\_\_

\*KEY: AG—Aqueous NA—Nonaqueous SL—Sludge  
 GW—Groundwater SO—Soil PE—Petroleum

801 Western Avenue  
 Glendale, CA 91201  
 818/247 5737  
 Fax: 818/247-9797

LOG NO: G95-01-138

Received: 09 JAN 95

Mailed: JAN 25

Mr. Brian Garber  
 Groundwater Technology, Inc.  
 1401 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

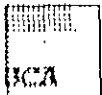
Page 1

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) | Date Analyzed | Dilution Factor Times | TPH-g | Benzene | Toluene | Ethyl-Benzene | Total Xylenes |
|--------------------|--------------|-----------------------|---------------|-----------------------|-------|---------|---------|---------------|---------------|
|                    |              |                       |               |                       | ug/L  | ug/L    | ug/L    | ug/L          | ug/L          |
| RDL                |              |                       |               | 1                     |       | 0.5     | 0.5     | 0.5           | 0.5           |
| 1*HH               | 01/09/95     | 01/18/95              |               | 1                     | 330   | 2.3     | 0.69    | 0.65          | 35            |
| 2*A-1H             | 01/09/95     | 01/19/95              |               | 1                     | 53    | 0.63    | 1.1     | 0.66          | 5.3           |
| 3*B BI-1           | 01/09/95     | 01/19/95              |               | 1                     | <50   | <0.5    | <0.5    | <0.5          | <0.5          |
| 4*C-1H             | 01/09/95     | 01/19/95              |               | 1                     | <50   | <0.5    | <0.5    | <0.5          | <0.5          |

Karen Petryna  
 1127 Lincoln Ave., Alameda  
 Alameda County

*Mark A. Valentini, PhD*  
 Mark A. Valentini, PhD, Laboratory Director



: ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9501138 :  
 : BC ANALYTICAL : GLEN LAB : 15:42:58 24 JAN 1995 - P. 1 :  
 =====

| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....   | DATE..... | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|---------------|-----------|-------------|--------|---------|-------|
|            |                      |               | ANALYZED  |             |        |         |       |
| 9501138*1  | INF                  | GAS.BTX.TESNC | 01.18.95  | 8015M.TX    | 516-20 | 958079  | 8658  |
| 9501138*2  | A-INF                | GAS.BTX.TESNC | 01.19.95  | 8015M.TX    | 516-20 | 958080  | 8658  |
| 9501138*3  | B-BT-1               | GAS.BTX.TESNC | 01.19.95  | 8015M.TX    | 516-24 | 957152  | 8607  |
| 9501138*4  | C-EFF                | GAS.BTX.TESNC | 01.19.95  | 8015M.TX    | 516-24 | 957152  | 8607  |

\*\*\*

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

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

## BC ANALYTICAL

ORDER QC REPORT FOR G9501138

DATE REPORTED : 01/24/95

Page 1

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER                             | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY |
|---------------------------------------|---------------|--------------|-----------|-----------|------|------------------|
| 1. TPH-gas/BTEX (CADHS/80 C5011939*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 01.18.95      | 958079       | 01/18/95  | 01/18/95  | Date | N/A              |
| Benzene                               | 01.18.95      | 958079       | 15.5      | 12.5      | ug/L | 124              |
| Toluene                               | 01.18.95      | 958079       | 55.0      | 55.5      | ug/L | 99               |
| Ethylbenzene                          | 01.18.95      | 958079       | 11.8      | 12.5      | ug/L | 94               |
| Total Xylene Isomers                  | 01.18.95      | 958079       | 63.2      | 66.5      | ug/L | 95               |
| TPH (as Gasoline)                     | 01.18.95      | 958079       | 1100      | 1000      | ug/L | 110              |
| 2. TPH-gas/BTEX (CADHS/80 C5012046*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 01.19.95      | 958080       | 01/19/95  | 01/19/95  | Date | N/A              |
| Benzene                               | 01.19.95      | 958080       | 15.9      | 12.5      | ug/L | 127              |
| Toluene                               | 01.19.95      | 958080       | 56.6      | 55.5      | ug/L | 102              |
| Ethylbenzene                          | 01.19.95      | 958080       | 11.6      | 12.5      | ug/L | 93               |
| Total Xylene Isomers                  | 01.19.95      | 958080       | 61.6      | 66.5      | ug/L | 93               |
| TPH (as Gasoline)                     | 01.19.95      | 958080       | 853       | 1000      | ug/L | 85               |
| 3. TPH-gas/BTEX (CADHS/80 C5011977*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 01.18.95      | 957152       | 01/18/95  | 01/18/95  | Date | N/A              |
| Benzene                               | 01.18.95      | 957152       | 10.1      | 12.5      | ug/L | 81               |
| Toluene                               | 01.18.95      | 957152       | 53.4      | 55.5      | ug/L | 96               |
| Ethylbenzene                          | 01.18.95      | 957152       | 12.5      | 12.5      | ug/L | 100              |
| Total Xylene Isomers                  | 01.18.95      | 957152       | 57.1      | 66.5      | ug/L | 86               |
| TPH (as Gasoline)                     | 01.18.95      | 957152       | 978       | 1000      | ug/L | 98               |

BC ANALYTICAL

ORDER QC REPORT FOR G9501138

DATE REPORTED : 01/24/95

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)  
BATCH QC REPORT

| PARAMETER                             | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|---------------------------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. TPH-gas/BTEX (CADHS/80 9501126*13) |               |               |              |           |            |      |                 |
| Date Analyzed                         |               | 01.19.95      | 958079       | 01/19/95  | 01/19/95   | Date | N/A             |
| Benzene                               |               | 01.19.95      | 958079       | 16.1      | 16.9       | ug/L | 5               |
| Toluene                               |               | 01.19.95      | 958079       | 57.2      | 59.6       | ug/L | 4               |
| Ethylbenzene                          |               | 01.19.95      | 958079       | 12.9      | 14.1       | ug/L | 9               |
| Total Xylene Isomers                  |               | 01.19.95      | 958079       | 64.7      | 67.7       | ug/L | 5               |
| TPH (as Gasoline)                     |               | 01.19.95      | 958079       | 1030      | 1160       | ug/L | 12              |
| 2. TPH-gas/BTEX (CADHS/80 9501127*7)  |               |               |              |           |            |      |                 |
| Date Analyzed                         |               | 01.19.95      | 958080       | 01/19/95  | 01/19/95   | Date | N/A             |
| Benzene                               |               | 01.19.95      | 958080       | 16.6      | 16.5       | ug/L | 1               |
| Toluene                               |               | 01.19.95      | 958080       | 53.4      | 53.7       | ug/L | 1               |
| Ethylbenzene                          |               | 01.19.95      | 958080       | 11.8      | 11.8       | ug/L | 0               |
| Total Xylene Isomers                  |               | 01.19.95      | 958080       | 61.1      | 61.7       | ug/L | 1               |
| TPH (as Gasoline)                     |               | 01.19.95      | 958080       | 1200      | 1230       | ug/L | 2               |
| 3. TPH-gas/BTEX (CADHS/80 9501108*1)  |               |               |              |           |            |      |                 |
| Date Analyzed                         |               | 01.18.95      | 957152       | 01/18/95  | 01/18/95   | Date | N/A             |
| Benzene                               |               | 01.18.95      | 957152       | 14.5      | 14.4       | ug/L | 1               |
| Toluene                               |               | 01.18.95      | 957152       | 58.5      | 55.6       | ug/L | 5               |
| Ethylbenzene                          |               | 01.18.95      | 957152       | 13.2      | 12.5       | ug/L | 5               |
| Total Xylene Isomers                  |               | 01.18.95      | 957152       | 60.6      | 57.6       | ug/L | 5               |
| TPH (as Gasoline)                     |               | 01.18.95      | 957152       | 851       | 714        | ug/L | 18              |

BC ANALYTICAL

ORDER QC REPORT FOR G9501138

DATE REPORTED : 01/24/95

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MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

| PARAMETER                             | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS %  | MSD % | TRUE RESULT | UNIT |   |
|---------------------------------------|---------------|---------------|--------------|-------|-------|-------------|------|---|
| 1. TPH-gas/BTEX (CADHS/80 9501126*13) |               |               |              |       |       |             |      |   |
| Benzene                               |               | 01.19.95      | 958079       | 129 Q | 135 Q | 12.5        | ug/L | Q |
| Toluene                               |               | 01.19.95      | 958079       | 103   | 107   | 55.5        | ug/L |   |
| Ethylbenzene                          |               | 01.19.95      | 958079       | 103   | 113   | 12.5        | ug/L |   |
| Total Xylene Isomers                  |               | 01.19.95      | 958079       | 97    | 102   | 66.5        | ug/L |   |
| TPH (as Gasoline)                     |               | 01.19.95      | 958079       | 103   | 116   | 1000        | ug/L |   |
| 2. TPH-gas/BTEX (CADHS/80 9501127*7)  |               |               |              |       |       |             |      |   |
| Benzene                               |               | 01.19.95      | 958080       | 121   | 120   | 14.0        | ug/L |   |
| Toluene                               |               | 01.19.95      | 958080       | 96    | 97    | 55.5        | ug/L |   |
| Ethylbenzene                          |               | 01.19.95      | 958080       | 94    | 94    | 12.5        | ug/L |   |
| Total Xylene Isomers                  |               | 01.19.95      | 958080       | 92    | 93    | 66.5        | ug/L |   |
| TPH (as Gasoline)                     |               | 01.19.95      | 958080       | 111   | 114   | 1090        | ug/L |   |
| 3. TPH-gas/BTEX (CADHS/80 9501108*1)  |               |               |              |       |       |             |      |   |
| Benzene                               |               | 01.18.95      | 957152       | 116   | 115   | 12.5        | ug/L |   |
| Toluene                               |               | 01.18.95      | 957152       | 105   | 100   | 55.5        | ug/L |   |
| Ethylbenzene                          |               | 01.18.95      | 957152       | 106   | 100   | 12.5        | ug/L |   |
| Total Xylene Isomers                  |               | 01.18.95      | 957152       | 91    | 87    | 66.5        | ug/L |   |
| TPH (as Gasoline)                     |               | 01.18.95      | 957152       | 85    | 71    | 1000        | ug/L |   |



## BC ANALYTICAL

ORDER QC REPORT FOR G9501138

DATE REPORTED : 01/24/95

Page 1

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

| PARAMETER                             | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT | METHOD   |
|---------------------------------------|---------------|--------------|--------------|-----|------|----------|
| 1. TPH-gas/BTEX (CADHS/80 B5011031*1) |               |              |              |     |      |          |
| Date Analyzed                         | 01.18.95      | 958079       | 01/18/95     | NA  | Date | 8015M.TX |
| Benzene                               | 01.18.95      | 958079       | 0            | 0.5 | ug/L | 8015M.TX |
| Toluene                               | 01.18.95      | 958079       | 0.32         | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                          | 01.18.95      | 958079       | 0            | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers                  | 01.18.95      | 958079       | 0            | 0.5 | ug/L | 8015M.TX |
| TPH (as Gasoline)                     | 01.18.95      | 958079       | 27           | 50  | ug/L | 8015M.TX |
| 2. TPH-gas/BTEX (CADHS/80 B5011082*1) |               |              |              |     |      |          |
| Date Analyzed                         | 01.19.95      | 958080       | 01/19/95     | NA  | Date | 8015M.TX |
| Benzene                               | 01.19.95      | 958080       | 0            | 0.5 | ug/L | 8015M.TX |
| Toluene                               | 01.19.95      | 958080       | 0            | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                          | 01.19.95      | 958080       | 0            | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers                  | 01.19.95      | 958080       | 0            | 0.5 | ug/L | 8015M.TX |
| TPH (as Gasoline)                     | 01.19.95      | 958080       | 34           | 50  | ug/L | 8015M.TX |
| 3. TPH-gas/BTEX (CADHS/80 B5011047*1) |               |              |              |     |      |          |
| Date Analyzed                         | 01.18.95      | 957152       | 01/18/95     | NA  | Date | 8015M.TX |
| Benzene                               | 01.18.95      | 957152       | 0            | 0.5 | ug/L | 8015M.TX |
| Toluene                               | 01.18.95      | 957152       | 0.36         | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                          | 01.18.95      | 957152       | 0            | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers                  | 01.18.95      | 957152       | 0            | 0.5 | ug/L | 8015M.TX |
| TPH (as Gasoline)                     | 01.18.95      | 957152       | 8.2          | 50  | ug/L | 8015M.TX |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 15:43:53 24 JAN 1995 - P. 1 :

=====

| METHOD    | ANALYTE               | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-----------|-----------------------|--------|----------|----------|------|------|------|
| 9501138*1 |                       |        |          |          |      |      |      |
| 8015M.TXa | ,a,a-Trifluorotoluene | 958079 | 01/18/95 | 50.1     | 50.0 | 100  |      |
| 9501138*2 |                       |        |          |          |      |      |      |
| 8015M.TXa | ,a,a-Trifluorotoluene | 958080 | 01/19/95 | 43.8     | 50.0 | 88   |      |
| 9501138*3 |                       |        |          |          |      |      |      |
| 8015M.TXa | ,a,a-Trifluorotoluene | 957152 | 01/19/95 | 49.1     | 50.0 | 98   |      |
| 9501138*4 |                       |        |          |          |      |      |      |
| 8015M.TXa | ,a,a-Trifluorotoluene | 957152 | 01/19/95 | 47.2     | 50.0 | 94   |      |

: SURROGATE RECOVERIES :  
 : BC ANALYTICAL : GLEN LAB : 15:43:54 24 JAN 1995 - P. 1 :  
 =====

| METHOD         | ANALYTE             | BATCH  | ANALYZED | REPORTED | TRUE   | %REC | FLAG |
|----------------|---------------------|--------|----------|----------|--------|------|------|
| 9501108*1*R1   |                     |        |          |          |        |      |      |
| 8015M          | Napthalene reported | 953    | 01/14/95 | 0.0597   | 0.0600 | 100  |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 957152 | 01/18/95 | 48.5     | 50.0   | 97   |      |
| 9501108*1*S1   |                     |        |          |          |        |      |      |
| 8015M          | Napthalene reported | 953    | 01/14/95 | 0.0671   | 0.0600 | 112  |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 957152 | 01/18/95 | 72.5     | 50.0   | 145  |      |
| 9501108*1*S2   |                     |        |          |          |        |      |      |
| 8015M          | Napthalene reported | 953    | 01/14/95 | 0.0590   | 0.0600 | 98   |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 957152 | 01/18/95 | 73.4     | 50.0   | 147  |      |
| 9501108*1*T    |                     |        |          |          |        |      |      |
| 8015M          | Napthalene reported | 953    | 01/14/95 | 0.0600   | 0.0600 | 100  |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 957152 | 01/18/95 | 50.0     | 50.0   | 100  |      |
| 9501126*13*R1  |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958079 | 01/19/95 | 49.3     | 50.0   | 99   |      |
| 9501126*13*S1  |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958079 | 01/19/95 | 51.3     | 50.0   | 103  |      |
| 9501126*13*S2  |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958079 | 01/19/95 | 52.8     | 50.0   | 106  |      |
| 9501126*13*T   |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958079 | 01/19/95 | 50.0     | 50.0   | 100  |      |
| 9501127*7*R1   |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958080 | 01/19/95 | 48.0     | 50.0   | 96   |      |
| 9501127*7*S1   |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958080 | 01/19/95 | 50.5     | 50.0   | 101  |      |
| 9501127*7*S2   |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958080 | 01/19/95 | 48.6     | 50.0   | 97   |      |
| 9501127*7*T    |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958080 | 01/19/95 | 50.0     | 50.0   | 100  |      |
| B5011031*1*MB  |                     |        |          |          |        |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene    | 958079 | 01/18/95 | 46.9     | 50.0   | 94   |      |

**CHAIN OF CUSTODY RECORD**

BCA Log Number 026700006-051005

| Client name<br><b>GroundWater Technology</b>  |              |              |                     | Project or PO#<br><b>026700006-051005</b> |                      | Analyses required<br><i>Diex TPH GAS</i><br><i>Hazardous sample Special handling required</i> |  |  |  |  |  |  |  |  |  |         |  |  |  |           |
|---|--------------|--------------|---------------------|---|----------------------|---|--|--|--|--|--|--|--|--|--|---------|--|--|--|-----------|
| Address<br><b>1401 Harvard Suite 140</b>      |              |              |                     | Phone #<br><b>(916) 372-4700</b>          |                      |   |  |  |  |  |  |  |  |  |  |         |  |  |  |           |
| City State, Zip<br><b>West Sacramento, CA</b> |              |              |                     | Report attention<br><b>Brian Garber</b>   |                      |   |  |  |  |  |  |  |  |  |  |         |  |  |  |           |
| Lab Sample number                             | Date sampled | Time sampled | Type* See key below | Sampled by<br><b>Mark A Czypka</b>        | Number of containers |   |  |  |  |  |  |  |  |  |  | Remarks |  |  |  |           |
|   | 1/9/95       | 14:00        | GW                  | INF                                       | 2                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  | 11/1      |
|   |              | 14:10        | GW                  | A INF                                     | 2                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  | 11/1      |
|   |              | 14:10        | GW                  | BBT-1                                     | 2                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  | 11/1      |
|   |              | 14:20        | GW                  | D EFF                                     | 2                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  |           |
|   |              | 13:45        | NA                  | INF (AIR)                                 | 1                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  |           |
|   |              | 13:35        | NA                  | INF TO 2nd carbor (AIR)                   | 1                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  | } 09:0113 |
|   |              | 13:25        | NA                  | EFF (AIR)                                 | 1                    | X   |  |  |  |  |  |  |  |  |  |         |  |  |  |           |

| Signature                          | Print Name     | Company                      | Date   | Time  |
|------------------------------------|----------------|------------------------------|--------|-------|
| Relinquished by <i>Mark Czypka</i> | Mark A Czypka  | GroundWater Technology, Inc. | 1/9/95 | 07:00 |
| Received by <i>Greg Mason</i>      | Greg Mason     | Groundwater Tech             | 1/9/95 | 07:10 |
| Relinquished by <i>Greg Mason</i>  | Greg Mason     | Groundwater Tech             |        |       |
| Received by <i>Maria Adviance</i>  | Maria Adviance | BCH                          | 1/9/95 | 13:00 |
| Relinquished by                    |                |                              |        |       |
| Received by Laboratory             |                |                              |        |       |

**B C ANALYTICAL**  
 1085 Shary Circle, Concord, CA 94518 (510) 825-3884  
 1801 Western Avenue, Glendale, CA 91201 (818) 247-5737  
 11000 Greenway, West Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

\*KEY: AG—Aqueous NA—Nonaqueous SL—Sludge  
 GW—Groundwater SO—Soil PE—Petroleum

Dispose arrangements: \_\_\_\_\_

801 Western Avenue  
 Glendale, CA 91201  
 818/247-5737  
 Fax: 818/247-9797

LOG NO: G95-02-019

Received: 01 FEB 95

Mailed: FEB 17 1995

Dr. Brian Garber  
 Groundwater Technology, Inc.  
 1401 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKFP1001L

REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) |                       | TPH-g ug/L | Benzene ug/L | Toluene ug/L | Ethyl-Benzene ug/L | Total Xylenes Isomers ug/L |
|--------------------|--------------|-----------------------|-----------------------|------------|--------------|--------------|--------------------|----------------------------|
|                    |              | Date Analyzed         | Dilution Factor Times |            |              |              |                    |                            |
| RDI                |              |                       | 1                     |            | 0.5          | 0.5          | 0.5                | 0.5                        |
| 1-A III            | 02/01/95     | 02/05/95              | 1                     | 100        | 5.2          | 2.2          | 2.0                | 14                         |
| 2-A III            | 02/01/95     | 02/05/95              | 1                     | <50        | 1.0          | 0.70         | <0.5               | 2.9                        |
| 3-B BE 1           | 02/01/95     | 02/05/95              | 1                     | <50        | <0.5         | <0.5         | <0.5               | <0.5                       |
| 4-C III            | 02/01/95     | 02/14/95              | 1                     | <50        | <0.5         | <0.5         | <0.5               | <0.5                       |

Elyon DeFuria  
 1127 Lincoln Ave., Alameda  
 Alameda County

*Mark A. Valentini*  
 Mark A. Valentini, PhD, Laboratory Director



| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....   | DATE..... | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|---------------|-----------|-------------|--------|---------|-------|
|            |                      |               | ANALYZED  |             |        |         |       |
| 9502019*1  | INF                  | GAS.BTX.TESNC | 02.05.95  | 8015M.TX    | 516-20 | 958092  | 8658  |
| 9502019*2  | A-INF                | GAS.BTX.TESNC | 02.05.95  | 8015M.TX    | 516-20 | 958092  | 8658  |
| 9502019*3  | B-BT-1               | GAS.BTX.TESNC | 02.05.95  | 8015M.TX    | 516-20 | 958092  | 8658  |
| 9502019*4  | C-EFF                | GAS.BTX.TESNC | 02.14.95  | 8015M.TX    | 516-20 | 958096  | 8658  |

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Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.  
ID.NO = BC Analytical employee identification number of analyst.

## BC ANALYTICAL

ORDER QC REPORT FOR G9502019

DATE REPORTED : 02/16/95

Page 1

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER                             | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY |
|---------------------------------------|---------------|--------------|-----------|-----------|------|------------------|
| 1. TPH-gas/BTEX (CADHS/80 C5021056*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 02.04.95      | 958092       | 02/04/95  | 02/04/95  | Date | N/A              |
| Benzene                               | 02.04.95      | 958092       | 13.9      | 12.5      | ug/L | 111              |
| Toluene                               | 02.04.95      | 958092       | 50.9      | 55.5      | ug/L | 92               |
| Ethylbenzene                          | 02.04.95      | 958092       | 11.6      | 12.5      | ug/L | 93               |
| Total Xylene Isomers                  | 02.04.95      | 958092       | 58.7      | 66.5      | ug/L | 88               |
| TPH (as Gasoline)                     | 02.04.95      | 958092       | 902       | 1000      | ug/L | 90               |
| 2. TPH-gas/BTEX (CADHS/80 C5021598*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 02.14.95      | 958096       | 02/14/95  | 02/14/95  | Date | N/A              |
| Benzene                               | 02.14.95      | 958096       | 15.8      | 12.5      | ug/L | 126              |
| Toluene                               | 02.14.95      | 958096       | 56.5      | 55.5      | ug/L | 102              |
| Ethylbenzene                          | 02.14.95      | 958096       | 13.1      | 12.5      | ug/L | 105              |
| Total Xylene Isomers                  | 02.14.95      | 958096       | 65.2      | 66.5      | ug/L | 98               |
| TPH (as Gasoline)                     | 02.14.95      | 958096       | 1150      | 1000      | ug/L | 115              |

BC ANALYTICAL

ORDER QC REPORT FOR G9502019

DATE REPORTED : 02/16/95

MATRIX QC PRECISION (DUPLICATE SPIKES)  
BATCH QC REPORT

| PARAMETER                            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|--------------------------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. TPH-gas/BTEX (CADHS/80 9501481*5  |               |               |              |           |            |      |                 |
| Date Analyzed                        |               | 02.05.95      | 958092       | 02/05/95  | 02/05/95   | Date | N/A             |
| Benzene                              |               | 02.05.95      | 958092       | 14.8      | 14.0       | ug/L | 6               |
| Toluene                              |               | 02.05.95      | 958092       | 55.5      | 52.4       | ug/L | 6               |
| Ethylbenzene                         |               | 02.05.95      | 958092       | 12.2      | 11.8       | ug/L | 3               |
| Total Xylene Isomers                 |               | 02.05.95      | 958092       | 61.5      | 59.0       | ug/L | 4               |
| TPH (as Gasoline)                    |               | 02.05.95      | 958092       | 944       | 924        | ug/L | 2               |
| 2. TPH-gas/BTEX (CADHS/80 9502072*10 |               |               |              |           |            |      |                 |
| Date Analyzed                        |               | 02.14.95      | 958096       | 02/14/95  | 02/14/95   | Date | N/A             |
| Benzene                              |               | 02.14.95      | 958096       | 15.7      | 15.0       | ug/L | 5               |
| Toluene                              |               | 02.14.95      | 958096       | 57.5      | 54.3       | ug/L | 6               |
| Ethylbenzene                         |               | 02.14.95      | 958096       | 13.0      | 12.8       | ug/L | 2               |
| Total Xylene Isomers                 |               | 02.14.95      | 958096       | 65.6      | 62.2       | ug/L | 5               |
| TPH (as Gasoline)                    |               | 02.14.95      | 958096       | 1060      | 1020       | ug/L | 4               |



BC ANALYTICAL

ORDER QC REPORT FOR G9502019

DATE REPORTED : 02/16/95

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

| PARAMETER                            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS %  | MSD % | TRUE RESULT | UNIT |   |
|--------------------------------------|---------------|---------------|--------------|-------|-------|-------------|------|---|
| 1. TPH-gas/BTEX (CADHS/80 9501481*5  |               |               |              |       |       |             |      |   |
| Benzene                              |               | 02.05.95      | 958092       | 118   | 112   | 12.5        | ug/L |   |
| Toluene                              |               | 02.05.95      | 958092       | 100   | 94    | 55.5        | ug/L |   |
| Ethylbenzene                         |               | 02.05.95      | 958092       | 98    | 94    | 12.5        | ug/L |   |
| Total Xylene Isomers                 |               | 02.05.95      | 958092       | 92    | 89    | 66.5        | ug/L |   |
| TPH (as Gasoline)                    |               | 02.05.95      | 958092       | 94    | 92    | 1000        | ug/L |   |
| 2. TPH-gas/BTEX (CADHS/80 9502072*10 |               |               |              |       |       |             |      |   |
| Benzene                              |               | 02.14.95      | 958096       | 126 Q | 120   | 12.5        | ug/L | Q |
| Toluene                              |               | 02.14.95      | 958096       | 104   | 98    | 55.5        | ug/L |   |
| Ethylbenzene                         |               | 02.14.95      | 958096       | 104   | 102   | 12.5        | ug/L |   |
| Total Xylene Isomers                 |               | 02.14.95      | 958096       | 99    | 94    | 66.5        | ug/L |   |
| TPH (as Gasoline)                    |               | 02.14.95      | 958096       | 106   | 102   | 1000        | ug/L |   |

BC ANALYTICAL

ORDER QC REPORT FOR G9502019

DATE REPORTED : 02/16/95

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

| PARAMETER                            | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT. | METHOD   |
|--------------------------------------|---------------|--------------|--------------|-----|-------|----------|
| 1. TPH-gas/BTEX (CADHS/80 B502554*1) |               |              |              |     |       |          |
| Date Analyzed                        | 02.04.95      | 958092       | 02/04/95     | NA  | Date  | 8015M.TX |
| Benzene                              | 02.04.95      | 958092       | 0            | 0.5 | ug/L  | 8015M.TX |
| Toluene                              | 02.04.95      | 958092       | 0            | 0.5 | ug/L  | 8015M.TX |
| Ethylbenzene                         | 02.04.95      | 958092       | 0            | 0.5 | ug/L  | 8015M.TX |
| Total Xylene Isomers                 | 02.04.95      | 958092       | 0            | 0.5 | ug/L  | 8015M.TX |
| TPH (as Gasoline)                    | 02.04.95      | 958092       | 32           | 50  | ug/L  | 8015M.TX |
| 2. TPH-gas/BTEX (CADHS/80 B502843*1) |               |              |              |     |       |          |
| Date Analyzed                        | 02.13.95      | 958096       | 02/13/95     | NA  | Date  | 8015M.TX |
| Benzene                              | 02.13.95      | 958096       | 0            | 0.5 | ug/L  | 8015M.TX |
| Toluene                              | 02.13.95      | 958096       | 0.26         | 0.5 | ug/L  | 8015M.TX |
| Ethylbenzene                         | 02.13.95      | 958096       | 0            | 0.5 | ug/L  | 8015M.TX |
| Total Xylene Isomers                 | 02.13.95      | 958096       | 0.26         | 0.5 | ug/L  | 8015M.TX |
| TPH (as Gasoline)                    | 02.13.95      | 958096       | 31           | 50  | ug/L  | 8015M.TX |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 15:51:58 16 FEB 1995 - P. 1 :  
=====

| METHOD    | ANALYTE               | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-----------|-----------------------|--------|----------|----------|------|------|------|
|           | 0502019*1             |        |          |          |      |      |      |
| 3015M.TXa | ,a,a-Trifluorotoluene | 958092 | 02/05/95 | 47.0     | 50.0 | 94   |      |
|           | 0502019*2             |        |          |          |      |      |      |
| 3015M.TXa | ,a,a-Trifluorotoluene | 958092 | 02/05/95 | 46.9     | 50.0 | 94   |      |
|           | 0502019*3             |        |          |          |      |      |      |
| 3015M.TXa | ,a,a-Trifluorotoluene | 958092 | 02/05/95 | 46.7     | 50.0 | 93   |      |
|           | 0502019*4             |        |          |          |      |      |      |
| 3015M.TXa | ,a,a-Trifluorotoluene | 958096 | 02/14/95 | 47.6     | 50.0 | 95   |      |

: SURROGATE RECOVERIES :  
 : BC ANALYTICAL : GLEN LAB : 15:51:58 16 FEB 1995 - P. 1 :  
 :=====

| METHOD         | ANALYTE          | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|----------------|------------------|--------|----------|----------|------|------|------|
| 9501481*5*R1   |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/05/95 | 45.0     | 50.0 | 90   |      |
| 9501481*5*S1   |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/05/95 | 47.8     | 50.0 | 96   |      |
| 9501481*5*S2   |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/05/95 | 47.8     | 50.0 | 96   |      |
| 9501481*5*T    |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/05/95 | 50.0     | 50.0 | 100  |      |
| 9502072*10*R1  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/14/95 | 48.2     | 50.0 | 96   |      |
| 9502072*10*S1  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/14/95 | 52.9     | 50.0 | 106  |      |
| 9502072*10*S2  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/14/95 | 56.7     | 50.0 | 113  |      |
| 9502072*10*T   |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/14/95 | 50.0     | 50.0 | 100  |      |
| 8502554*1*MB   |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/04/95 | 45.8     | 50.0 | 92   |      |
| 8502843*1*MB   |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/13/95 | 51.1     | 50.0 | 102  |      |
| C5021056*1*LC  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/04/95 | 46.5     | 50.0 | 93   |      |
| C5021056*1*LT  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958092 | 02/04/95 | 50.0     | 50.0 | 100  |      |
| C5021598*1*LC  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/14/95 | 54.1     | 50.0 | 108  |      |
| C5021598*1*LT  |                  |        |          |          |      |      |      |
| 8015M.TXa,a,a- | Trifluorotoluene | 958096 | 02/14/95 | 50.0     | 50.0 | 100  |      |

CHAIN OF CUSTODY RECORD

BCA Log Number 012025-11

Client name: GroundWater Technology Inc.  
 Address: 1701 Halcyon Suite 140  
 State/Zip: West Sacramento, CA  
 Project or PO#: 020700006, 051005  
 Phone #: (916) 372-4700  
 Report attention: Brian Garber

| Analyses required                          |  |
|--|--|
| BTEX, TPH as Gas                           |  |
| Hazardous sample Special handling required |  |
| P3 lot 1                                   |  |
| Remarks                                    |  |

| Sample No. | Date sampled  | Time sampled | Type*<br>See key below | Sampled by                | Number of containers | Analyses required |          | Remarks                     |
|------------|---------------|--------------|------------------------|---------------------------|----------------------|-------------------|----------|-----------------------------|
|            |               |              |                        | <u>Mark Czypka</u>        |                      |                   |          |                             |
|            |               |              |                        | <u>Sample description</u> |                      |                   |          |                             |
|            | <u>2/1/95</u> | <u>10:45</u> | <u>GW</u>              | <u>INF</u>                | <u>2</u>             | <u>X</u>          | <u>-</u> | <u>1 Preserved with HCL</u> |
|            | <u>↓</u>      | <u>10:47</u> | <u>↓</u>               | <u>A-INF</u>              | <u>2</u>             | <u>X</u>          | <u>-</u> | <u>2</u>                    |
|            | <u>↓</u>      | <u>10:49</u> | <u>↓</u>               | <u>B-BTI</u>              | <u>2</u>             | <u>X</u>          | <u>-</u> | <u>3</u>                    |
|            | <u>↓</u>      | <u>10:51</u> | <u>↓</u>               | <u>C-EFF</u>              | <u>2</u>             | <u>X</u>          | <u>-</u> | <u>4</u>                    |
|            |               |              |                        |                           |                      |                   |          | <u>624 E 61459</u>          |
|            |               |              |                        |                           |                      |                   |          | <u>KEP</u>                  |
|            |               |              |                        |                           |                      |                   |          | <u>KEEP 10014</u>           |
|            |               |              |                        |                           |                      |                   |          | <u>Planned</u>              |

| Signature          | Print Name           | Company                             | Date          | Time        |
|--------------------|----------------------|-------------------------------------|---------------|-------------|
| <u>Mark Czypka</u> | <u>Mark A Czypka</u> | <u>GroundWater Technology, Inc.</u> | <u>2/1/95</u> | <u>1400</u> |
| <u>Jan Winkler</u> | <u>Jan Winkler</u>   | <u>BCA</u>                          | <u>2/1/95</u> | <u>1400</u> |
|                    |                      |                                     |               |             |
|                    |                      |                                     |               |             |
|                    |                      |                                     |               |             |
|                    |                      |                                     |               |             |

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.  
 Hazardous samples will be returned to client or disposed of at client's expense.  
 Disposal arrangements: \_\_\_\_\_

\*KEY AG Aqueous HA Nonaqueous Oil Grease  
 GW Groundwater SO Soil PE Petroleum

801 Western Avenue  
 Glendale, CA 91201  
 818/247-5737  
 Fax: 818/247-9797

LOG NO: G95-03-180  
 Received: 10 MAR 95  
 Mailed: **MAR 24 1995**

Mr. Brian Garber  
 Groundwater Technology, Inc.  
 1401 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370  
 Requisition: 624881450  
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) |                       | TPH-g ug/L | Benzene ug/L | Toluene ug/L | Ethyl-Benzene ug/L | Total Xylenes Isomers ug/L |
|--------------------|--------------|-----------------------|-----------------------|------------|--------------|--------------|--------------------|----------------------------|
|                    |              | Date Analyzed         | Dilution Factor Times |            |              |              |                    |                            |
| RDL                |              |                       | 1                     | 50         | 0.5          | 0.5          | 0.5                | 0.5                        |
| 1*INF              | 03/09/95     | 03/10/95              | 1                     | 470        | 65           | 19           | 15                 | 46                         |
| 2*A-III            | 03/09/95     | 03/10/95              | 1                     | 65         | 2.8          | 1.3          | 1.8                | 5.5                        |
| 3*B-BT-2           | 03/09/95     | 03/10/95              | 1                     | 50         | 0.83         | <0.5         | 0.89               | 2.5                        |
| 4*C-FFF            | 03/09/95     | 03/10/95              | 1                     | <50        | <0.5         | <0.5         | <0.5               | <0.5                       |

Karen Petryna  
 1127 Lincoln, Alameda  
 Alameda County

*Frank W. Halcyon*  
 Frank W. Halcyon, PhD, Laboratory Director



| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....   | DATE.....<br>ANALYZED | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|---------------|-----------------------|-------------|--------|---------|-------|
| 9503180*1  | INF                  | GAS.BTX.TESNC | 03.10.95              | 8015M.TX    | 516-20 | 958109  | 8658  |
| 9503180*2  | A-INF                | GAS.BTX.TESNC | 03.10.95              | 8015M.TX    | 516-20 | 958109  | 8658  |
| 9503180*3  | B-BT-2               | GAS.BTX.TESNC | 03.10.95              | 8015M.TX    | 516-20 | 958109  | 8658  |
| 9503180*4  | C-EFF                | GAS.BTX.TESNC | 03.10.95              | 8015M.TX    | 516-20 | 958109  | 8658  |

\*\*\*

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.  
ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9503180

DATE REPORTED : 03/20/95

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER                             | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY |
|---------------------------------------|---------------|--------------|-----------|-----------|------|------------------|
| 1. TPH-gas/BTEX (CADHS/80 C5031192*1) |               |              |           |           |      |                  |
| Date Analyzed                         | 03.10.95      | 958109       | 03/10/95  | 03/10/95  | Date | N/A              |
| Benzene                               | 03.10.95      | 958109       | 15.2      | 12.5      | ug/L | 122              |
| Toluene                               | 03.10.95      | 958109       | 54.9      | 55.5      | ug/L | 99               |
| Ethylbenzene                          | 03.10.95      | 958109       | 12.7      | 12.5      | ug/L | 102              |
| Total Xylene Isomers                  | 03.10.95      | 958109       | 63.6      | 66.5      | ug/L | 96               |
| TPH (as Gasoline)                     | 03.10.95      | 958109       | 996       | 1000      | ug/L | 100              |



## BC ANALYTICAL

ORDER QC REPORT FOR G9503180

DATE REPORTED : 03/20/95

Page 1

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

| PARAMETER                           | SAMPLE<br>NUMBER | DATE<br>ANALYZED | BATCH<br>NUMBER | MS<br>% | MSD<br>% | TRUE<br>RESULT | UNIT |
|-------------------------------------|------------------|------------------|-----------------|---------|----------|----------------|------|
| 1. TPH-gas/BTEX (CADHS/80 9503180*4 |                  |                  |                 |         |          |                |      |
| Benzene                             |                  | 03.10.95         | 958109          | 125     | 110      | 12.5           | ug/L |
| Toluene                             |                  | 03.10.95         | 958109          | 98      | 88       | 55.5           | ug/L |
| Ethylbenzene                        |                  | 03.10.95         | 958109          | 98      | 88       | 12.5           | ug/L |
| Total Xylene Isomers                |                  | 03.10.95         | 958109          | 93      | 83       | 66.5           | ug/L |
| TPH (as Gasoline)                   |                  | 03.10.95         | 958109          | 96      | 77       | 1000           | ug/L |

BC ANALYTICAL

ORDER QC REPORT FOR G9503180

DATE REPORTED : 03/20/95

MATRIX QC PRECISION (DUPLICATE SPIKES)  
 BATCH QC REPORT

| PARAMETER                            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|--------------------------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. TPH-gas/BTEX (CADHS/80 9503180*4) |               |               |              |           |            |      |                 |
| Date Analyzed                        |               | 03.10.95      | 958109       | 03/10/95  | 03/10/95   | Date | N/A             |
| Benzene                              |               | 03.10.95      | 958109       | 15.6      | 13.7       | ug/L | 13              |
| Toluene                              |               | 03.10.95      | 958109       | 54.3      | 48.8       | ug/L | 11              |
| Ethylbenzene                         |               | 03.10.95      | 958109       | 12.2      | 11.0       | ug/L | 10              |
| Total Xylene Isomers                 |               | 03.10.95      | 958109       | 62.0      | 55.3       | ug/L | 11              |
| TPH (as Gasoline)                    |               | 03.10.95      | 958109       | 963       | 772        | ug/L | 22 Q            |

BC ANALYTICAL

ORDER QC REPORT FOR G9503180

DATE REPORTED : 03/20/95

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

| PARAMETER                            | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT | METHOD   |
|--------------------------------------|---------------|--------------|--------------|-----|------|----------|
| 1. TPH-gas/BTEX (CADHS/80 B503639*1) |               |              |              |     |      |          |
| Date Analyzed                        | 03.10.95      | 958109       | 03/10/95     | NA  | Date | 8015M.TX |
| Benzene                              | 03.10.95      | 958109       | 0            | 0.5 | ug/L | 8015M.TX |
| Toluene                              | 03.10.95      | 958109       | 0            | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                         | 03.10.95      | 958109       | 0            | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers                 | 03.10.95      | 958109       | 0            | 0.5 | ug/L | 8015M.TX |
| TPH (as Gasoline)                    | 03.10.95      | 958109       | 28           | 50  | ug/L | 8015M.TX |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 11:57:27 20 MAR 1995 - P. 1 :  
=====

| METHOD    | ANALYTE                | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-----------|------------------------|--------|----------|----------|------|------|------|
| 9503180*1 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958109 | 03/10/95 | 53.0     | 50.0 | 106  |      |
| 9503180*2 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958109 | 03/10/95 | 50.9     | 50.0 | 102  |      |
| 9503180*3 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958109 | 03/10/95 | 49.8     | 50.0 | 100  |      |
| 9503180*4 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958109 | 03/10/95 | 49.6     | 50.0 | 99   |      |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 11:57:32 20 MAR 1995 - P. 1 :  
=====

| METHOD        | ANALYTE              | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|---------------|----------------------|--------|----------|----------|------|------|------|
| 9503180*4*R1  |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 49.6     | 50.0 | 99   |      |
| 9503180*4*S1  |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 51.4     | 50.0 | 103  |      |
| 9503180*4*S2  |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 52.2     | 50.0 | 104  |      |
| 9503180*4*T   |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 50.0     | 50.0 | 100  |      |
| B503639*1*MB  |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 48.9     | 50.0 | 98   |      |
| C5031192*1*LC |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 51.9     | 50.0 | 104  |      |
| C5031192*1*LT |                      |        |          |          |      |      |      |
| 8015M.TXa     | a,a-Trifluorotoluene | 958109 | 03/10/95 | 50.0     | 50.0 | 100  |      |

**CHAIN OF CUSTODY RECORD**

BCA Log Number \_\_\_\_\_

Client name: Ground Water Technology  
 Address: 1401 Halyard Suite 140  
 City, State, Zip: West Sacramento, CA  
 Project or PO#: 020700006 .USIC05  
 Phone #: (916) 372-4700  
 Report attention: Brian Carter

| Analyses required |  |  |  |  |  |  |  |  |  | Remarks |   |
|-------------------|--|--|--|--|--|--|--|--|--|---------|---|
| BTEX, MTAs, Cis   |  |  |  |  |  |  |  |  |  |         |   |
|                   |  |  |  |  |  |  |  |  |  |         | P31011<br>Received w/ HCL<br>624881450<br>Alameda<br>KSP<br>FICRP 10/11 |
|                   |  |  |  |  |  |  |  |  |  |         |   |
|                   |  |  |  |  |  |  |  |  |  |         |   |
|                   |  |  |  |  |  |  |  |  |  |         |   |

| Lab Sample number | Date sampled | Time sampled | Type<br>See key below | Sampled by         | Number of containers |
|-------------------|--------------|--------------|-----------------------|--------------------|----------------------|
|                   |              |              |                       | Sample description |                      |
|                   | 3/9/95       | 15:30        | GW                    | Mark Czyplo        | 2                    |
|                   |              | 15:32        |                       | A-UVF              | 2                    |
|                   |              | 15:34        |                       | B-BT-2             | 2                    |
|                   |              | 15:36        |                       | C-EFF              | 2                    |

| Signature              | Print Name    | Company                     | Date    | Time    |
|------------------------|---------------|-----------------------------|---------|---------|
| <i>[Signature]</i>     | Mark N Czyplo | Ground Water Technology Inc | 3/10/95 | 9:05 AM |
| <i>[Signature]</i>     | Greg MASON    | GTI                         | 3/10/95 | 9:30    |
| <i>[Signature]</i>     | Maria ADVANCE | BCA                         | 3/10/95 | 11:32   |
| Relinquished by        |               |                             |         |         |
| Received by            |               |                             |         |         |
| Relinquished by        |               |                             |         |         |
| Received by            |               |                             |         |         |
| Relinquished by        |               |                             |         |         |
| Received by Laboratory |               |                             |         |         |

**BC ANALYTICAL**  
 10000 E. 7th Ave., Suite 200, Glendale, CA 91201 (818) 247-5737  
 10000 E. 7th Ave., Suite 200, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

\*KEY: AG - Aqueous NA - Nonaqueous SI - Surface  
 GW - Groundwater SO - Soil PE - Petroleum

Disposal arrangements: \_\_\_\_\_

801 Western Avenue  
 Glendale, CA 91201  
 818/247-5737  
 Fax: 818/247-9797

LOG NO: 695-04-100  
 Received: 07 APR 95  
 Mailed: APR 20 1995

Mr. Brian Garber  
 Groundwater Technology, Inc.  
 1101 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370  
 Requisition: 624881450  
 Project: FKEP1001L

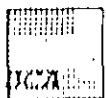
REPORT OF ANALYTICAL RESULTS

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) | Date Analyzed Date | Dilution Factor Times | TPH-g | Benzene | Toluene | Ethyl-Benzene | Total Xylenes |
|--------------------|--------------|-----------------------|--------------------|-----------------------|-------|---------|---------|---------------|---------------|
|                    |              |                       |                    |                       | ug/L  | ug/L    | ug/L    | ug/L          | Isomers ug/L  |
| RDI                |              |                       |                    | 1                     | 50    | 0.5     | 0.5     | 0.5           | 0.5           |
| 1*INF              | 04/06/95     | 04/17/95              |                    | 5                     | 1200  | 210     | 35      | 47            | 140           |
| 2*A-INF            | 04/06/95     | 04/17/95              |                    | 1                     | 140   | 27      | 4.6     | 4.5           | 16            |
| 3*B-BI-1           | 04/06/95     | 04/17/95              |                    | 1                     | 160   | 10      | 1.7     | 1.7           | 5.7           |
| 4*C-EII            | 04/06/95     | 04/17/95              |                    | 1                     | <50   | <0.5    | <0.5    | <0.5          | <0.5          |

Karen Petryna  
 1127 Lincoln, Alameda  
 Alameda County

*Jape Freemyer*  
 Jape Freemyer, Program Manager



: ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9504100 :  
 : BC ANALYTICAL : GLEN LAB : 11:15:27 19 APR 1995 - P. 1 :  
 =====

| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....   | DATE.....<br>ANALYZED | METHOD..... | EQUIP. BATCH.. | ID.NO      |
|------------|----------------------|---------------|-----------------------|-------------|----------------|------------|
| 9504100*1  | INF                  | GAS.BTX.TESNC | 04.17.95              | 8015M.TX    | 536-21         | 95188 1004 |
| 9504100*2  | A-INF                | GAS.BTX.TESNC | 04.17.95              | 8015M.TX    | 536-21         | 95188 1004 |
| 9504100*3  | B-BT-1               | GAS.BTX.TESNC | 04.17.95              | 8015M.TX    | 536-21         | 95188 1004 |
| 9504100*4  | C-EFF                | GAS.BTX.TESNC | 04.17.95              | 8015M.TX    | 536-21         | 95188 1004 |

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

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



BC ANALYTICAL

ORDER QC REPORT FOR G9504100

DATE REPORTED : 04/19/95

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER            | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT | PERCENT RECOVERY |
|----------------------|---------------|--------------|-----------|-----------|------|------------------|
| 1. TPI: (8015M/8020) |               |              |           |           |      |                  |
|                      | C5041537*1    |              |           |           |      |                  |
| Date Analyzed        | 04.17.95      | 95188        | 04/17/95  | 04/17/95  | Date | N/A              |
| Benzene              | 04.17.95      | 95188        | 22.1      | 15.2      | ug/L | 145 Q            |
| Toluene              | 04.17.95      | 95188        | 92.7      | 97.4      | ug/L | 95               |
| Ethylbenzene         | 04.17.95      | 95188        | 20.1      | 20.4      | ug/L | 99               |
| Total Xylene Isomers | 04.17.95      | 95188        | 114       | 119       | ug/L | 96               |
| TPH (Gasoline Range) | 04.17.95      | 95188        | 1110      | 1100      | ug/L | 101              |
| 2. TPH (8015M/8020)  |               |              |           |           |      |                  |
|                      | C5041538*1    |              |           |           |      |                  |
| Date Analyzed        | 04.17.95      | 95188        | 04/17/95  | 04/17/95  | Date | N/A              |
| Benzene              | 04.17.95      | 95188        | 19.3      | 15.2      | ug/L | 127              |
| Toluene              | 04.17.95      | 95188        | 87.5      | 97.4      | ug/L | 90               |
| Ethylbenzene         | 04.17.95      | 95188        | 19.0      | 20.4      | ug/L | 93               |
| Total Xylene Isomers | 04.17.95      | 95188        | 108       | 119       | ug/L | 91               |
| TPH (Gasoline Range) | 04.17.95      | 95188        | 1040      | 1100      | ug/L | 95               |

BC ANALYTICAL

ORDER QC REPORT FOR G9504100

DATE REPORTED : 04/19/95

ADDITIONAL LCS PRECISION (DUPLICATES)  
BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | LC1 RESULT | LC2 RESULT | UNIT | RELATIVE % DIFF |
|----------------------|---------------|---------------|--------------|------------|------------|------|-----------------|
| 1. TPH (8015M/8020)  |               |               |              |            |            |      |                 |
| Date Analyzed        |               | 04.17.95      | 95188        | 04/17/95   | 04/17/95   | Date | N/A             |
| Benzene              |               | 04.17.95      | 95188        | 22.1       | 19.3       | ug/L | 14              |
| Toluene              |               | 04.17.95      | 95188        | 92.7       | 87.5       | ug/L | 6               |
| Ethylbenzene         |               | 04.17.95      | 95188        | 20.1       | 19.0       | ug/L | 6               |
| Total Xylene Isomers |               | 04.17.95      | 95188        | 114        | 108        | ug/L | 5               |
| TPH (Gasoline Range) |               | 04.17.95      | 95188        | 1110       | 1040       | ug/L | 7               |

BC ANALYTICAL

ORDER QC REPORT FOR G9504100

DATE REPORTED : 04/19/95

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS %  | MSD % | TRUE RESULT | UNIT |   |
|----------------------|---------------|---------------|--------------|-------|-------|-------------|------|---|
| 1. TPH (8015M/8020)  | 9504103*2     |               |              |       |       |             |      |   |
| Benzene              |               | 04.17.95      | 95188        | 141 Q | 142 Q | 15.2        | ug/L | Q |
| Toluene              |               | 04.17.95      | 95188        | 94    | 95    | 97.4        | ug/L |   |
| Ethylbenzene         |               | 04.17.95      | 95188        | 91    | 93    | 20.4        | ug/L |   |
| Total Xylene Isomers |               | 04.17.95      | 95188        | 89    | 91    | 119         | ug/L |   |
| TPH (Gasoline Range) |               | 04.17.95      | 95188        | 118   | 119   | 1100        | ug/L |   |

BC ANALYTICAL

ORDER QC REPORT FOR G9504100

Page 1

DATE REPORTED : 04/19/95

MATRIX QC PRECISION (DUPLICATE SPIKES)  
 BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|----------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. TPH (8015M/8020)  | 9504103*2     |               |              |           |            |      |                 |
| Date Analyzed        |               | 04.17.95      | 95188        | 04/17/95  | 04/17/95   | Date | N/A             |
| Benzene              |               | 04.17.95      | 95188        | 21.5      | 21.6       | ug/L | 0               |
| Toluene              |               | 04.17.95      | 95188        | 91.3      | 92.5       | ug/L | 1               |
| Ethylbenzene         |               | 04.17.95      | 95188        | 18.6      | 18.9       | ug/L | 2               |
| Total Xylene Isomers |               | 04.17.95      | 95188        | 106       | 108        | ug/L | 2               |
| TPH (Gasoline Range) |               | 04.17.95      | 95188        | 1300      | 1310       | ug/L | 1               |

BC ANALYTICAL

ORDER QC REPORT FOR G9504100

Page 1

DATE REPORTED : 04/19/95

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

| PARAMETER                       | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT | METHOD   |
|---------------------------------|---------------|--------------|--------------|-----|------|----------|
| 1. TP <sup>4</sup> (8015M/8020) |               |              |              |     |      |          |
|                                 |               | B504882*1    |              |     |      |          |
| Date Analyzed                   | 04.17.95      | 95188        | 04/17/95     | NA  | Date | 8015M.TX |
| Benzene                         | 04.17.95      | 95188        | 0            | 0.5 | ug/L | 8015M.TX |
| Toluene                         | 04.17.95      | 95188        | 0            | 0.5 | ug/L | 8015M.TX |
| Ethylbenzene                    | 04.17.95      | 95188        | 0            | 0.5 | ug/L | 8015M.TX |
| Total Xylene Isomers            | 04.17.95      | 95188        | 0            | 0.5 | ug/L | 8015M.TX |
| TPH (Gasoline Range)            | 04.17.95      | 95188        | 0            | 50  | ug/L | 8015M.TX |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 11:15:05 19 APR 1995 - P. 1 :  
=====

| METHOD                         | ANALYTE | BATCH | ANALYZED | REPORTED | TRUE %REC | FLAG |
|--------------------------------|---------|-------|----------|----------|-----------|------|
| 9504100*1                      |         |       |          |          |           |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 51.1     | 50.0      | 102  |
| 9504100*2                      |         |       |          |          |           |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 51.3     | 50.0      | 103  |
| 9504100*3                      |         |       |          |          |           |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 52.2     | 50.0      | 104  |
| 9504100*4                      |         |       |          |          |           |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 51.9     | 50.0      | 104  |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 11:15:08 19 APR 1995 - P. 1 :  
=====

| METHOD                         | ANALYTE | BATCH | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|--------------------------------|---------|-------|----------|----------|------|------|------|
| 9504103*2*R1                   |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 51.8     | 50.0 | 104  |      |
| 9504103*2*S1                   |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 52.5     | 50.0 | 105  |      |
| 9504103*2*S2                   |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 52.3     | 50.0 | 105  |      |
| 9504103*2*T                    |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 50.0     | 50.0 | 100  |      |
| 8504832*1*MB                   |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 51.9     | 50.0 | 104  |      |
| C5041537*1*LC                  |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 54.4     | 50.0 | 109  |      |
| C5041537*1*LT                  |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 50.0     | 50.0 | 100  |      |
| C5041538*1*LC                  |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 53.5     | 50.0 | 107  |      |
| C5041538*1*LT                  |         |       |          |          |      |      |      |
| 8015M.TXa,a,a-Trifluorotoluene |         | 95188 | 04/17/95 | 50.0     | 50.0 | 100  |      |

CHAIN OF CUSTODY RECORD

10-4-1991

Company: GroundWater Technology, Inc.  
 Project or PO#: 020700006.09005  
~~4057 Fort~~ 1401 Halyard Suite 170 Phone #: (916) 372-4700  
 State: CA Zip: West Sacramento Report attention: Brian Gacher

| Date sampled | Time sampled | Type<br>See key below | Sampled by<br>Mark N. Czipka | Number of containers | Analyses required |     |    |    |                  |                           | Remarks          |
|--------------|--------------|-----------------------|------------------------------|----------------------|-------------------|-----|----|----|------------------|---------------------------|------------------|
|              |              |                       |                              |                      | BTEX              | TPH | as | GW | Hazardous sample | Special handling required |                  |
| 4/6/95       | 15:22        | GW                    | INF                          | 2                    | X                 |     |    |    |                  |                           | Presu. w/ HCL    |
|              | 15:29        |                       | A-INF                        | 2                    | X                 |     |    |    |                  |                           | Presu. w/ HCL    |
|              | 15:24        |                       | B-BT-1                       | 2                    | X                 |     |    |    |                  |                           | Presu. w/ HCL    |
|              | 15:26        |                       | C-EFF                        | 2                    | X                 |     |    |    |                  |                           | Presu. w/ HCL    |
|              |              |                       |                              |                      |                   |     |    |    |                  |                           | Req. # 624881450 |
|              |              |                       |                              |                      |                   |     |    |    |                  |                           | FKEP/001 L       |
|              |              |                       |                              |                      |                   |     |    |    |                  |                           | KEP              |
|              |              |                       |                              |                      |                   |     |    |    |                  |                           | ALM...           |

| Signature        | Print Name           | Company                             | Date          | Time         |
|------------------|----------------------|-------------------------------------|---------------|--------------|
| <u>M.N.C.</u>    | <u>Mark N Czipka</u> | <u>GroundWater Technology, Inc.</u> | <u>4/7/95</u> | <u>8:10</u>  |
| <u>J. Winter</u> | <u>Jan Winter</u>    | <u>BCA</u>                          | <u>4/7/95</u> | <u>8:10</u>  |
| <u>J. Winter</u> | <u>Jan Winter</u>    | <u>BUA</u>                          | <u>4/7/95</u> | <u>16:00</u> |
|                  |                      |                                     |               |              |
|                  |                      |                                     |               |              |

ANALYTICAL  
 91501 CA 94518 (510) 825 3894  
 91201 CA 91201 (818) 247 5737  
 91201 CA 91201 (818) 247 5737

Note: Samples are discarded 30 days after results are reported unless other arrangements are made  
 Hazardous samples will be returned to client or disposed of at client's expense  
 Disposal arrangements \_\_\_\_\_

\*KEY AG Aqueous H2O  
 GW Groundwater SO Soil LI Liquid



# ANALYTICAL REPORT

## *B C Analytical*

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

LOG NO: G95-05-067  
 Received: 04 MAY 95  
 Mailed: MAY 22 1995

Mr. Brian Garber  
 Groundwater Technology, Inc.  
 1401 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370  
 Requisition: 624881450  
 Project: FKEP1001L

### REPORT OF ANALYTICAL RESULTS

Page 1

| LOG NO                     | 05-067-1  | 05-067-2  | 05-067-3  |
|----------------------------|-----------|-----------|-----------|
| DATE SAMPLED               | 03 MAY 95 | 03 MAY 95 | 03 MAY 95 |
| SAMPLE DESCRIPTION         | INF       | INF CARB  | CARB MID  |
| GROUND WATER               |           |           |           |
| TPH (8015M/8020)           |           |           |           |
| Date Analyzed              | 05/12/95  | 05/12/95  | 05/12/95  |
| Dilution Factor, Times     | 1         | 1         | 1         |
| Benzene, ug/L              | 79        | 11        | 0.97      |
| Toluene, ug/L              | 18        | 4.2       | 0.73      |
| Ethylbenzene, ug/L         | 10        | 5.1       | <0.5      |
| Total Xylene Isomers, ug/L | 30        | 9.5       | <0.5      |
| TPH (Gasoline Range), ug/L | 590       | 170       | 230       |
| Other TPH (8015M/8020)     | ---       | ---       | ---       |



# ***B C Analytical***

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

LOG NO: G95-05-067

Received: 04 MAY 95

Mr. Brian Garber  
Groundwater Technology, Inc.  
1401 Halyard Drive, Suite 140  
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
Project: FKEP1001L

## REPORT OF ANALYTICAL RESULTS

Page 2

|                            |           |
|----------------------------|-----------|
| LOG NO                     | 05-067-4  |
| DATE SAMPLED               | 03 MAY 95 |
| SAMPLE DESCRIPTION         | EFF       |
| GROUND WATER               |           |
| TPH (8015M/8020)           |           |
| Date Analyzed              | 05/12/95  |
| Dilution Factor, Times     | 1         |
| Benzene, ug/L              | 5.8       |
| Toluene, ug/L              | 1.7       |
| Ethylbenzene, ug/L         | 2.4       |
| Total Xylene Isomers, ug/L | 4.2       |
| TPH (Gasoline Range), ug/L | 92        |
| Other TPH (8015M/8020)     | ---       |



# BC Analytical

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

LOG NO: G95-05-067

Received: 04 MAY 95

Mr. Brian Garber  
Groundwater Technology, Inc.  
1401 Halyard Drive, Suite 140  
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
Project: FKEP1001L

## REPORT OF ANALYTICAL RESULTS

Page 3

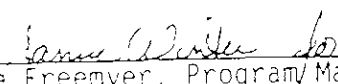
| LOG NO                      | 05-067-5  | 05-067-6          | 05-067-7  |
|-----------------------------|-----------|-------------------|-----------|
| DATE SAMPLED                | 03 MAY 95 | 03 MAY 95         | 03 MAY 95 |
| SAMPLE DESCRIPTION          | INF       | INF TO 2ND Carbon | EFF       |
| VAPOR OR AIR                |           |                   |           |
| TPH (8015M/8020)            |           |                   |           |
| Date Analyzed               | 05/04/95  | 05/04/95          | 05/04/95  |
| Dilution Factor, Times      | 1         | 1                 | 1         |
| Benzene, mg/M3              | 0.27      | <0.2              | <0.2      |
| Toluene, mg/M3              | 1.1       | <0.2              | <0.2      |
| Ethylbenzene, mg/M3         | 0.27      | <0.2              | <0.2      |
| Total Xylene Isomers, mg/M3 | 1.1       | <0.2              | <0.2      |
| TPH (Gasoline Range), mg/M3 | 47        | 10                | 11        |
| Other TPH (8015M/8020)      | ---       | ---               | ---       |

Karen Petryna

1127 Lincoln Ave., Alameda  
Santa Clara County

The gasoline range organics quantitated in samples  
Inf, Inf Carb, Carb Mid, Eff did display a typical  
gasoline pattern however, a large unidentified  
was also evident.

J. Winter, 5/19/95

  
Jane Freemyer, Program Manager



| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....   | DATE..... | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|---------------|-----------|-------------|--------|---------|-------|
|            |                      |               | ANALYZED  |             |        |         |       |
| 9505067*1  | INF                  | GAS.BTX.TESNC | 05.12.95  | 8015M.TX    | 516-20 | 958126  | 8607  |
| 9505067*2  | INF CARB             | GAS.BTX.TESNC | 05.12.95  | 8015M.TX    | 516-20 | 958126  | 8607  |
| 9505067*3  | CARB MID             | GAS.BTX.TESNC | 05.12.95  | 8015M.TX    | 516-20 | 958126  | 8607  |
| 9505067*4  | EFF                  | GAS.BTX.TESNC | 05.12.95  | 8015M.TX    | 516-20 | 958126  | 8607  |
| 9505067*5  | INF                  | GAS.BTX.TESNC | 05.04.95  | 8015M.TX    | 516-20 | 958123  | 8658  |
| 9505067*6  | INF TO 2ND Carbon    | GAS.BTX.TESNC | 05.04.95  | 8015M.TX    | 516-20 | 958123  | 8658  |
| 9505067*7  | EFF                  | GAS.BTX.TESNC | 05.04.95  | 8015M.TX    | 516-20 | 958123  | 8658  |

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

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

BC ANALYTICAL

ORDER QC REPORT FOR G9505067

DATE REPORTED : 05/18/95

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER            | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT  | PERCENT RECOVERY |
|----------------------|---------------|--------------|-----------|-----------|-------|------------------|
| 1. TPH (8015M/8020)  | C5051970*1    |              |           |           |       |                  |
| Date Analyzed        | 05.12.95      | 958126       | 05/12/95  | 025/12/   | Date  | N/A              |
| Benzene              | 05.12.95      | 958126       | 16.8      | 12.5      | ug/L  | 134              |
| Toluene              | 05.12.95      | 958126       | 65.1      | 55.5      | ug/L  | 117              |
| Ethylbenzene         | 05.12.95      | 958126       | 13.9      | 12.5      | ug/L  | 111              |
| TPH (Gasoline Range) | 05.12.95      | 958126       | 978       | 1000      | ug/L  | 98               |
| 2. TPH (8015M/8020)  | C5051971*1    |              |           |           |       |                  |
| Date Analyzed        | 05.12.95      | 958126       | 05/12/95  | 05/12/95  | Date  | N/A              |
| Benzene              | 05.12.95      | 958126       | 16.3      | 12.5      | ug/L  | 130              |
| Toluene              | 05.12.95      | 958126       | 62.4      | 55.5      | ug/L  | 112              |
| Ethylbenzene         | 05.12.95      | 958126       | 13.4      | 12.5      | ug/L  | 107              |
| Total Xylene Isomers | 05.12.95      | 958126       | 66.1      | 66.5      | ug/L  | 99               |
| TPH (Gasoline Range) | 05.12.95      | 958126       | 932       | 1000      | ug/L  | 93               |
| 3. TPH (8015M/8020)  | C505159*1     |              |           |           |       |                  |
| Date Analyzed        | 04.27.95      | 958123       | 04/27/95  | 04/27/95  | Date  | N/A              |
| Benzene              | 04.27.95      | 958123       | 6.71      | 6.40      | mg/M3 | 105              |
| Toluene              | 04.27.95      | 958123       | 6.40      | 6.40      | mg/M3 | 100              |
| Ethylbenzene         | 04.27.95      | 958123       | 6.42      | 6.40      | mg/M3 | 100              |
| Total Xylene Isomers | 04.27.95      | 958123       | 12.9      | 12.8      | mg/M3 | 101              |
| 4. TPH (8015M/8020)  | C505160*1     |              |           |           |       |                  |
| Date Analyzed        | 04.27.95      | 958123       | 04/27/95  | 04/27/95  | Date  | N/A              |
| Benzene              | 04.27.95      | 958123       | 6.70      | 6.40      | mg/M3 | 105              |
| Toluene              | 04.27.95      | 958123       | 6.59      | 6.40      | mg/M3 | 103              |
| Ethylbenzene         | 04.27.95      | 958123       | 6.52      | 6.40      | mg/M3 | 102              |
| Total Xylene Isomers | 04.27.95      | 958123       | 13.2      | 12.8      | mg/M3 | 103              |

BC ANALYTICAL

ORDER QC REPORT FOR G9505067

DATE REPORTED : 05/18/95

ADDITIONAL LCS PRECISION (DUPLICATES)  
BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | LC1 RESULT | LC2 RESULT | UNIT  | RELATIVE % DIFF |
|----------------------|---------------|---------------|--------------|------------|------------|-------|-----------------|
| 1. TPH (8015M/8020)  |               |               |              |            |            |       |                 |
| Date Analyzed        |               | 05.12.95      | 958126       | 05/12/95   | 05/12/95   | Date  | N/A             |
| Benzene              |               | 05.12.95      | 958126       | 16.8       | 16.3       | ug/L  | 3               |
| Toluene              |               | 05.12.95      | 958126       | 65.1       | 62.4       | ug/L  | 4               |
| Ethylbenzene         |               | 05.12.95      | 958126       | 13.9       | 13.4       | ug/L  | 4               |
| TPH (Gasoline Range) |               | 05.12.95      | 958126       | 978        | 932        | ug/L  | 5               |
| 2. TPH (8015M/8020)  |               |               |              |            |            |       |                 |
| Date Analyzed        |               | 04.27.95      | 958123       | 04/27/95   | 04/27/95   | Date  | N/A             |
| Benzene              |               | 04.27.95      | 958123       | 6.71       | 6.70       | mg/M3 | 0               |
| Toluene              |               | 04.27.95      | 958123       | 6.40       | 6.59       | mg/M3 | 3               |
| Ethylbenzene         |               | 04.27.95      | 958123       | 6.42       | 6.52       | mg/M3 | 2               |
| Total Xylene Isomers |               | 04.27.95      | 958123       | 12.9       | 13.2       | mg/M3 | 2               |

BC ANALYTICAL

ORDER QC REPORT FOR G9505067

DATE REPORTED : 05/18/95

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

| PARAMETER            | DATE ANALYZED | BATCH NUMBER | BLANK RESULT | RDL | UNIT  | METHOD   |
|----------------------|---------------|--------------|--------------|-----|-------|----------|
| 1. TPH (8015M/8020)  |               | B505978*1    |              |     |       |          |
| Date Analyzed        | 05.12.95      | 958126       | 05/12/95     | NA  | Date  | 8015M.TX |
| Benzene              | 05.12.95      | 958126       | 0            | 0.5 | ug/L  | 8015M.TX |
| Toluene              | 05.12.95      | 958126       | 0.25         | 0.5 | ug/L  | 8015M.TX |
| Ethylbenzene         | 05.12.95      | 958126       | 0            | 0.5 | ug/L  | 8015M.TX |
| Total Xylene Isomers | 05.12.95      | 958126       | 0            | 0.5 | ug/L  | 8015M.TX |
| TPH (Gasoline Range) | 05.12.95      | 958126       | 5.7          | 50  | ug/L  | 8015M.TX |
| 2. TPH (8015M/8020)  |               | B505075*1    |              |     |       |          |
| Date Analyzed        | 04.27.95      | 958123       | 04/27/95     | NA  | Date  | 8015M.TX |
| Benzene              | 04.27.95      | 958123       | 0.03         | NA  | mg/M3 | 8015M.TX |
| Toluene              | 04.27.95      | 958123       | 0.04         | NA  | mg/M3 | 8015M.TX |
| Ethylbenzene         | 04.27.95      | 958123       | 0            | NA  | mg/M3 | 8015M.TX |
| Total Xylene Isomers | 04.27.95      | 958123       | 0.09         | NA  | mg/M3 | 8015M.TX |
| TPH (Gasoline Range) | 04.27.95      | 958123       | 6.4          | NA  | mg/M3 | 8015M.TX |
| 3. TPH (8015M/8020)  |               | B505076*1    |              |     |       |          |
| Date Analyzed        | 04.28.95      | 958123       | 04/28/95     | NA  | Date  | 8015M.TX |
| Benzene              | 04.28.95      | 958123       | 0            | NA  | mg/M3 | 8015M.TX |
| Toluene              | 04.28.95      | 958123       | 0.043        | NA  | mg/M3 | 8015M.TX |
| Ethylbenzene         | 04.28.95      | 958123       | 0            | NA  | mg/M3 | 8015M.TX |
| Total Xylene Isomers | 04.28.95      | 958123       | 0.034        | NA  | mg/M3 | 8015M.TX |
| TPH (Gasoline Range) | 04.28.95      | 958123       | 0.69         | NA  | mg/M3 | 8015M.TX |
| 4. TPH (8015M/8020)  |               | B505966*1    |              |     |       |          |
| Date Analyzed        | 05.04.95      | 958123       | 05/04/95     | NA  | Date  | 8015M.TX |
| Benzene              | 05.04.95      | 958123       | 0            | NA  | mg/M3 | 8015M.TX |
| Toluene              | 05.04.95      | 958123       | 0.061        | NA  | mg/M3 | 8015M.TX |
| Ethylbenzene         | 05.04.95      | 958123       | 0            | NA  | mg/M3 | 8015M.TX |
| Total Xylene Isomers | 05.04.95      | 958123       | 0.029        | NA  | mg/M3 | 8015M.TX |
| TPH (Gasoline Range) | 05.04.95      | 958123       | 2.6          | NA  | mg/M3 | 8015M.TX |

: SURROGATE RECOVERIES :  
: BC ANALYTICAL : GLEN LAB : 11:37:16 18 MAY 1995 - P. 1 :  
=====

| METHOD    | ANALYTE                | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-----------|------------------------|--------|----------|----------|------|------|------|
| 9505067*1 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958126 | 05/12/95 | 49.2     | 50.0 | 98   |      |
| 9505067*2 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958126 | 05/12/95 | 49.1     | 50.0 | 98   |      |
| 9505067*3 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958126 | 05/12/95 | 48.1     | 50.0 | 96   |      |
| 9505067*4 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958126 | 05/12/95 | 47.6     | 50.0 | 95   |      |
| 9505067*5 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958123 | 05/04/95 | 52.3     | 50.0 | 105  |      |
| 9505067*6 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958123 | 05/04/95 | 42.5     | 50.0 | 85   |      |
| 9505067*7 |                        |        |          |          |      |      |      |
| 8015M.TXa | a,a,a-Trifluorotoluene | 958123 | 05/04/95 | 44.2     | 50.0 | 88   |      |



| METHOD        | ANALYTE               | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|---------------|-----------------------|--------|----------|----------|------|------|------|
| B505075*1*MB  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 04/27/95 | 47.1     | 50.0 | 94   |      |
| B505076*1*MB  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 04/28/95 | 48.1     | 50.0 | 96   |      |
| B505966*1*MB  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 05/04/95 | 47.8     | 50.0 | 96   |      |
| B505978*1*MB  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958126 | 05/12/95 | 46.4     | 50.0 | 93   |      |
| C505159*1*LC  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 04/27/95 | 47.6     | 50.0 | 95   |      |
| C505159*1*LT  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 04/27/95 | 50.0     | 50.0 | 100  |      |
| C505160*1*LC  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 04/27/95 | 48.1     | 50.0 | 96   |      |
| C505160*1*LT  |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958123 | 04/27/95 | 50.0     | 50.0 | 100  |      |
| C5051970*1*LC |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958126 | 05/12/95 | 62.9     | 50.0 | 126  |      |
| C5051970*1*LT |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958126 | 05/12/95 | 50.0     | 50.0 | 100  |      |
| C5051971*1*LC |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958126 | 05/12/95 | 60.7     | 50.0 | 121  |      |
| C5051971*1*LT |                       |        |          |          |      |      |      |
| 8015M.TXa     | ,a,a-Trifluorotoluene | 958126 | 05/12/95 | 50.0     | 50.0 | 100  |      |

CHAIN OF CUSTODY RECORD

1121 LINCOLN, 1112MED17

BCA Log number

Client name: Groundwater Technology  
 Address: 1401 Halyard #140  
 State/Zip: West Sacramento

Project or PO#: 020700006  
 Phone #: 916 372-4700

Report attention: Brian Garber

Sampled by: Chris McCormack

| Analyses required |          | Hazardous sample<br>Special handling required | Remarks    |
|-------------------|----------|---|------------|
| Analysis          | Quantity |   |            |
|                   |          |   | G9505067   |
|                   |          |   | Pg. 1 of 1 |

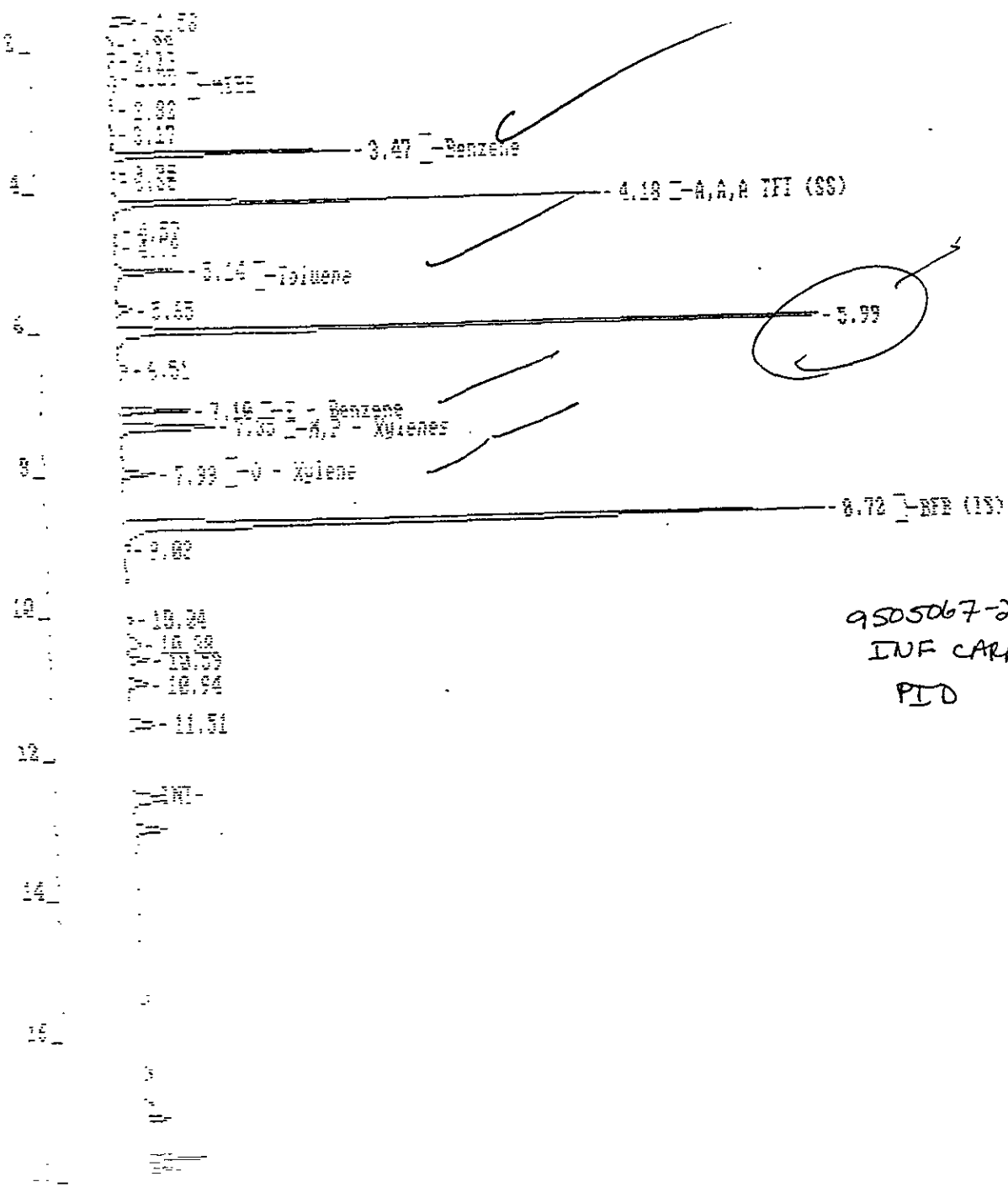
| Lab sample number | Date sampled | Time sampled | Type* See key below | Sample description            | Number of containers | Analysis | Quantity | Remarks   |
|-------------------|--------------|--------------|---------------------|-------------------------------|----------------------|----------|----------|-----------|
| 5/                | 1710         |              | GW                  | INF                           | 2                    |          | - 1      | HCL       |
| 3/                | 17:07        |              | GW                  | INF CARB                      | 2                    |          | - 2      | HCL       |
| 4/                | 1708         |              | GW                  | CARB MID                      | 2                    |          | - 3      | HCL       |
| 95                | 1703         |              | GW                  | EFF                           | 2                    |          | - 4      | HCL       |
|                   |              |              |                     |                               |                      |          |          | 624881450 |
| 5/                | 1725         |              | Air                 | INF                           | 1                    | X        | - 5      | Alameda   |
| 2/                | 1723         |              | Air                 | INF to 2 <sup>nd</sup> CARBON | 1                    | X        | - 6      | KCP       |
| 95                | 17:21        |              | Air                 | EFF                           | 1                    | X        | - 7      | KXSP10014 |

| Signature | Print Name      | Company                | Date   | Time    |
|-----------|-----------------|------------------------|--------|---------|
|           | Chris McCormack | Groundwater Technology | 5/4/95 | 9:00 AM |
|           | Mark N Czipl    | Ground Water Tech.     | 5/4/95 | 9:40 AM |
|           | Mark N Czipl    | Ground Water Tech      | 5/4/95 | 9:15 AM |
|           | Jan Winter      | BCA                    | 5/4/95 | 9:15 AM |

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

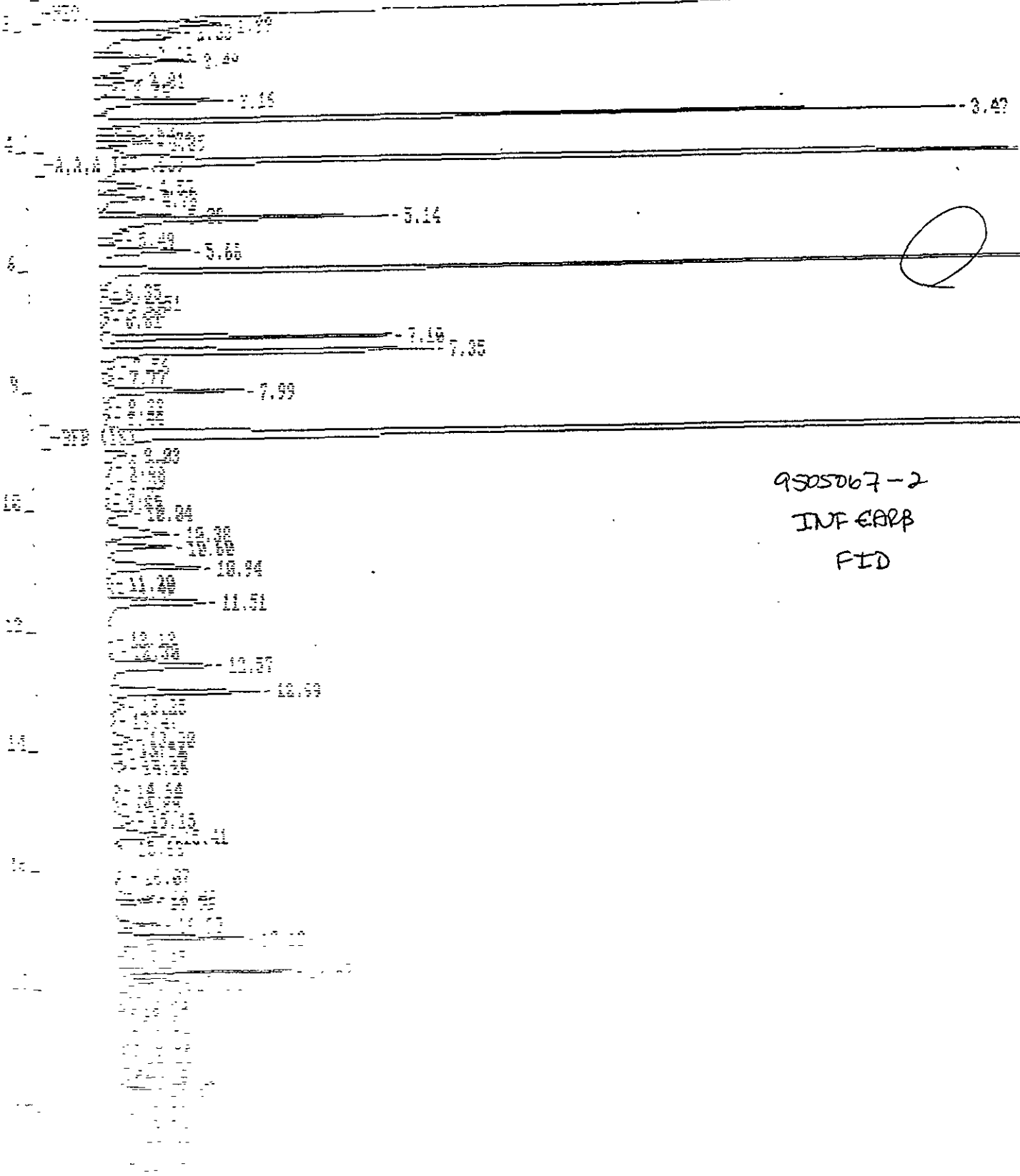
\*KEY: AG—Aqueous NA—Nonaqueous SL—Sludge  
 GW—Groundwater SO—Soil PE—Petroleum

Disposal arrangements: \_\_\_\_\_



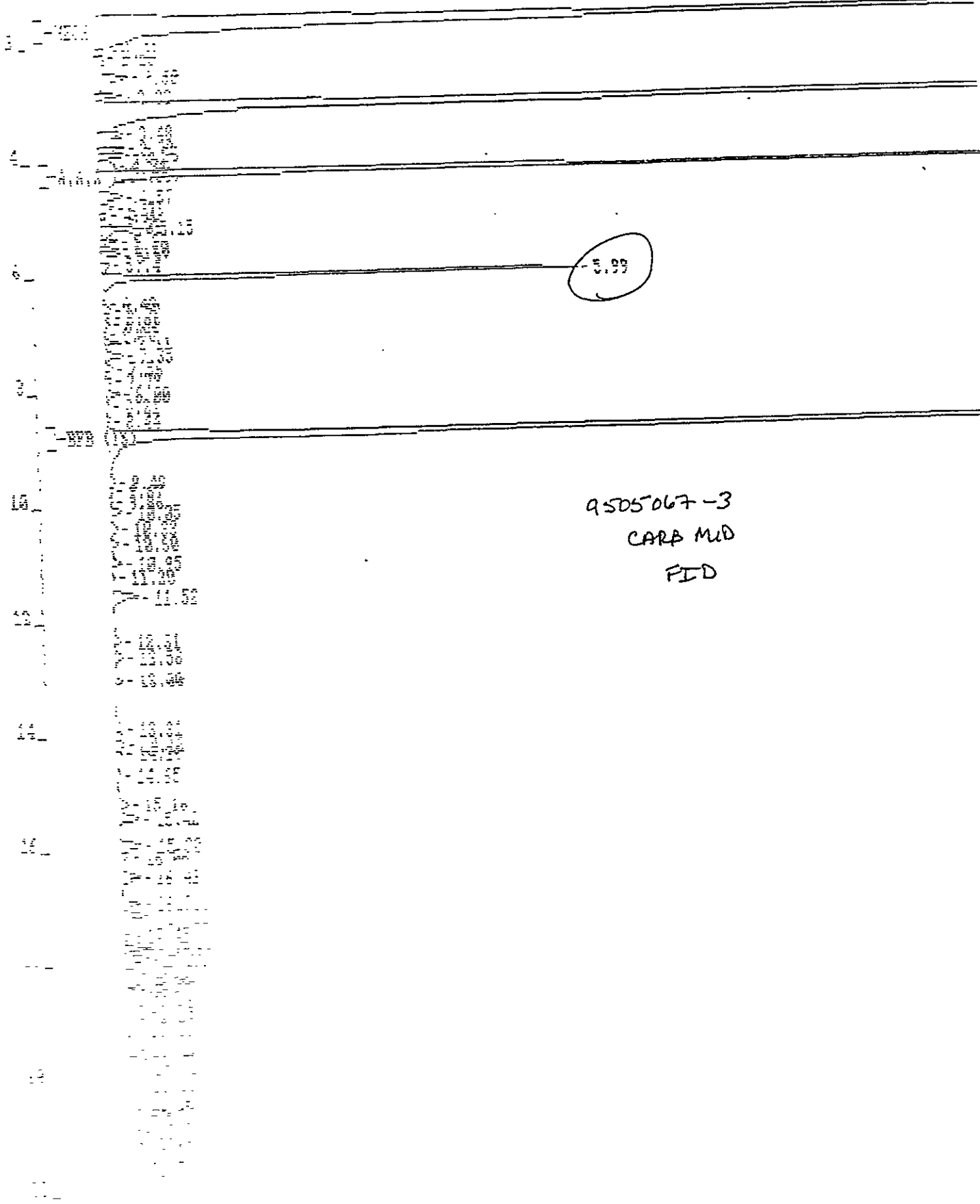
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Bata 81210



9505067-2  
INF EAPP  
FID

Bath 8120



6.99

9505067-3  
CARB MUD  
FID



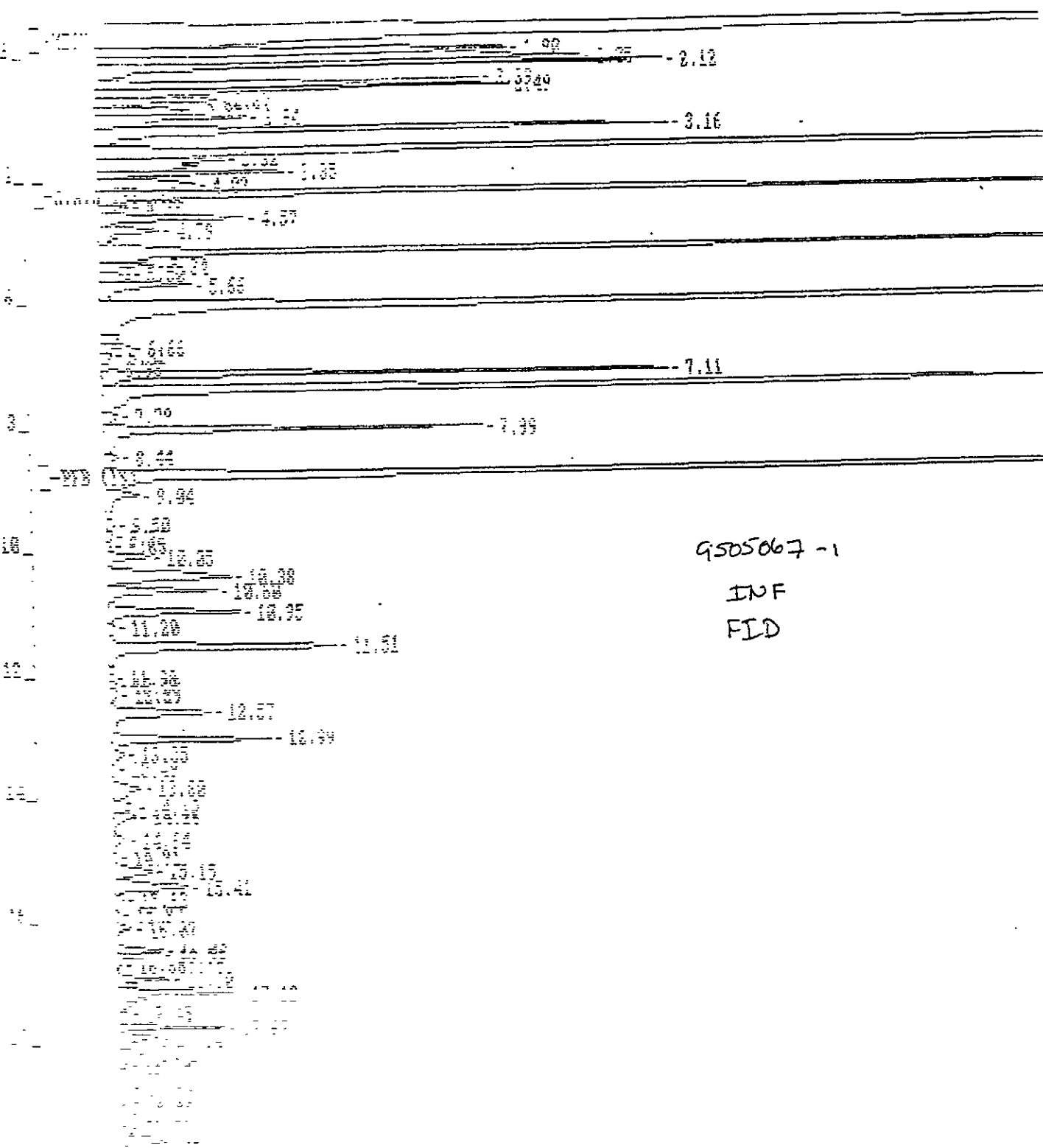
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Baker 8/24

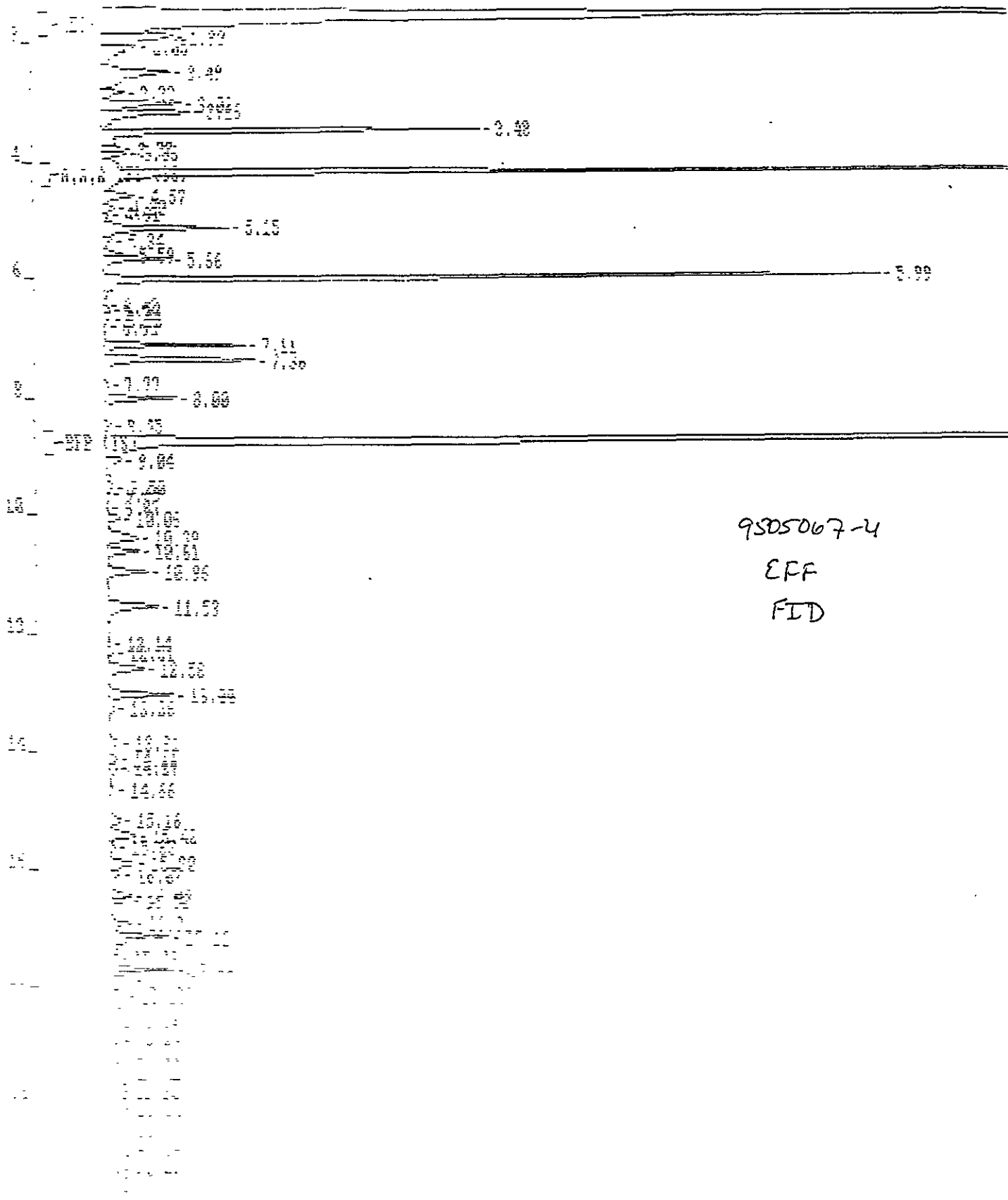


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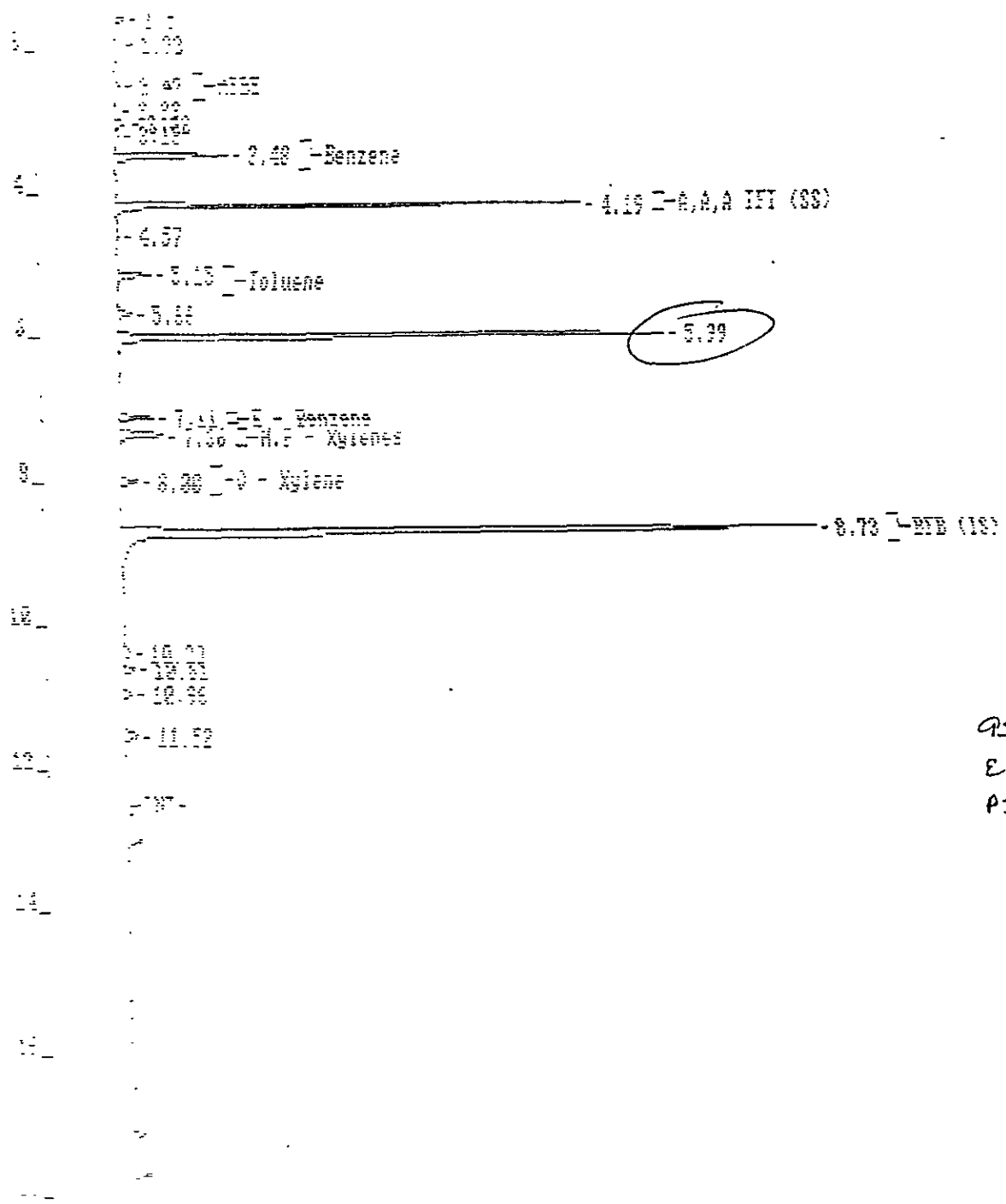
Baden 8126



9SD5067-4

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9505067 - 4  
EFF  
PID

ANALYTICAL REPORT

**BC Analytical**

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

LOG NO: C95-06-006  
 Received: 07 JUN 95  
 Mailed: JUN 20 1995

Mr. Brian Garber  
 Groundwater Technology, Inc.  
 1401 Halyard Drive, Suite 140  
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370  
 Requisition: 624881450  
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 1

| LOG NO                      | 06-006-1  | 06-006-2   | 06-006-3  |
|-----------------------------|-----------|------------|-----------|
| DATE SAMPLED                | 06 JUN 95 | 06 JUN 95  | 06 JUN 95 |
| SAMPLE DESCRIPTION          | Inf       | Inf To 2nd | Eff       |
| VAPOR OR AIR                |           |            |           |
| TPH/BTEX (8015M)            |           |            |           |
| Date Analyzed               | 06/08/95  | 06/08/95   | 06/07/95  |
| Dilution Factor, Times      | 1         | 1          | 1         |
| Benzene, mg/M3              | 0.33      | <0.20      | <0.20     |
| Toluene, mg/M3              | 0.84      | <0.20      | <0.20     |
| Ethylbenzene, mg/M3         | <0.20     | <0.20      | <0.20     |
| Total Xylene Isomers, mg/M3 | 1.1       | <0.20      | 0.35      |
| Carbon Range, .             | C6-C12    | C6-C12     | C6-C12    |
| TPH (Gasoline Range), mg/M3 | 64        | <10        | <10       |
| Other TPH/BTEX (80:5M)      | ---       | ---        | ---       |



# BC Analytical

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

LOG NO: C95-06-006

Received: 07 JUN 95

Mr. Brian Garber  
Groundwater Technology, Inc.  
1401 Halyard Drive, Suite 140  
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
Project: FKEP1001L

## REPORT OF ANALYTICAL RESULTS

Page 2

| LOG NO                     | 06-006-4  | 06-006-5  | 06-006-6  |
|----------------------------|-----------|-----------|-----------|
| DATE SAMPLED               | 06 JUN 95 | 06 JUN 95 | 06 JUN 95 |
| SAMPLE DESCRIPTION         | Inf       | A-Inf     | B-Bt-1    |
| GROUND WATER               |           |           |           |
| TPH/BTEX (8015M)           |           |           |           |
| Date Analyzed              | 06/12/95  | 06/12/95  | 06/12/95  |
| Dilution Factor, Times     | 1         | 1         | 1         |
| Benzene, ug/L              | 95        | 50        | 17        |
| Carbon Range, .            | C6-C12    | C6-C12    | C6-C12    |
| Toluene, ug/L              | 19        | 11        | 8.3       |
| Ethylbenzene, ug/L         | 5.8       | 3.9       | 0.81      |
| Total Xylene Isomers, ug/L | 34        | 25        | 4.9       |
| TPH (Gasoline Range), ug/L | 540       | 310       | 160       |



# BC Analytical

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

LOG NO: C95-06-006

Received: 07 JUN 95

Mr. Brian Garber  
Groundwater Technology, Inc.  
1401 Halyard Drive, Suite 140  
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

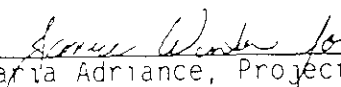
Requisition: 624881450  
Project: FKEP1001L

## REPORT OF ANALYTICAL RESULTS

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|                            |           |
|----------------------------|-----------|
| LOG NO                     | 06-006-7  |
| DATE SAMPLED               | 06 JUN 95 |
| SAMPLE DESCRIPTION         | C-Eff     |
| GROUND WATER               |           |
| TPH/BTEX (8015M)           |           |
| Date Analyzed              | 06/13/95  |
| Dilution Factor, Times     | 1         |
| Benzene, ug/L              | 3.8       |
| Carbon Range, .            | C6-C12    |
| Toluene, ug/L              | 1.4       |
| Ethylbenzene, ug/L         | <0.5      |
| Total Xylene Isomers, ug/L | 0.87      |
| TPH (Gasoline Range), ug/L | <50       |

Karen Petryna  
1127 Lincoln Ave., Alameda  
Alameda County

  
\_\_\_\_\_  
Maria Adriance, Project Manager

**BCA**

| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM.....     | DATE.....<br>ANALYZED | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|-----------------|-----------------------|-------------|--------|---------|-------|
| 9506006*1  | Inf                  | GAS.BTX.TES.VA  | 06.08.95              | 8015M       | 516-20 | 958132  | 8658  |
| 9506006*2  | Inf To 2nd           | GAS.BTX.TES.VA  | 06.08.95              | 8015M       | 516-20 | 958132  | 8658  |
| 9506006*3  | Eff                  | GAS.BTX.TES.VA  | 06.07.95              | 8015M       | 516-20 | 958132  | 8658  |
| 9506006*4  | Inf                  | GAS.MTBE.TES.AQ | 06.12.95              | 8015M       | 516-20 | 958133  | 8658  |
| 9506006*5  | A-Inf                | GAS.MTBE.TES.AQ | 06.12.95              | 8015M       | 516-20 | 958133  | 8658  |
| 9506006*6  | B-Bt-1               | GAS.MTBE.TES.AQ | 06.12.95              | 8015M       | 516-20 | 958133  | 8658  |
| 9506006*7  | C-Eff                | GAS.MTBE.TES.AQ | 06.13.95              | 8015M       | 516-24 | 957216  | 8658  |

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

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

BC ANALYTICAL

ORDER QC REPORT FOR C9506006

DATE REPORTED : 06/19/95

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LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER            | DATE ANALYZED | BATCH NUMBER | LC RESULT | LT RESULT | UNIT  | PERCENT RECOVERY |
|----------------------|---------------|--------------|-----------|-----------|-------|------------------|
| 1. TPH/BTEX          | C506004*1     |              |           |           |       |                  |
| Date Analyzed        | 06.09.95      | 958132       | 06/09/95  | 06/09/95  | Date  | N/A              |
| Benzene              | 06.09.95      | 958132       | 5.49      | 6.40      | mg/M3 | 86               |
| Toluene              | 06.09.95      | 958132       | 5.30      | 6.40      | mg/M3 | 83               |
| Ethylbenzene         | 06.09.95      | 958132       | 5.28      | 6.40      | mg/M3 | 83               |
| Total Xylene Isomers | 06.09.95      | 958132       | 15.8      | 19.2      | mg/M3 | 82               |
| 2. TPH/BTEX          | C506005*1     |              |           |           |       |                  |
| Date Analyzed        | 06.10.95      | 958132       | 06/10/95  | 06/10/95  | Date  | N/A              |
| Benzene              | 06.10.95      | 958132       | 5.74      | 6.40      | mg/M3 | 90               |
| Toluene              | 06.10.95      | 958132       | 5.56      | 6.40      | mg/M3 | 87               |
| Ethylbenzene         | 06.10.95      | 958132       | 5.56      | 6.40      | mg/M3 | 87               |
| Total Xylene Isomers | 06.10.95      | 958132       | 16.6      | 19.2      | mg/M3 | 86               |
| 3. TPH/BTEX          | C506007*1     |              |           |           |       |                  |
| Date Analyzed        | 06.12.95      | 958133       | 06/12/95  | 06/12/95  | Date  | N/A              |
| Benzene              | 06.12.95      | 958133       | 22.3      | 20.0      | ug/L  | 112              |
| Toluene              | 06.12.95      | 958133       | 20.4      | 20.0      | ug/L  | 102              |
| Ethylbenzene         | 06.12.95      | 958133       | 20.9      | 20.0      | ug/L  | 105              |
| Total Xylene Isomers | 06.12.95      | 958133       | 63.2      | 60.0      | ug/L  | 105              |
| TPH (Gasoline Range) | 06.12.95      | 958133       | 959       | 1000      | ug/L  | 96               |
| 4. TPH/BTEX          | C506008*1     |              |           |           |       |                  |
| Date Analyzed        | 06.13.95      | 958133       | 06/13/95  | 06/13/95  | Date  | N/A              |
| Benzene              | 06.13.95      | 958133       | 21.5      | 20.0      | ug/L  | 108              |
| Toluene              | 06.13.95      | 958133       | 20.3      | 20.0      | ug/L  | 102              |
| Ethylbenzene         | 06.13.95      | 958133       | 20.3      | 20.0      | ug/L  | 102              |
| Total Xylene Isomers | 06.13.95      | 958133       | 61.9      | 60.0      | ug/L  | 103              |
| TPH (Gasoline Range) | 06.13.95      | 958133       | 1070      | 1000      | ug/L  | 107              |
| 5. TPH/BTEX          | C506006*1     |              |           |           |       |                  |
| Date Analyzed        | 06.13.95      | 957216       | 06/13/95  | 06/13/95  | Date  | N/A              |
| Benzene              | 06.13.95      | 957216       | 20.1      | 20.0      | ug/L  | 101              |
| Toluene              | 06.13.95      | 957216       | 21.2      | 20.0      | ug/L  | 106              |
| Ethylbenzene         | 06.13.95      | 957216       | 20.4      | 20.0      | ug/L  | 102              |
| Total Xylene Isomers | 06.13.95      | 957216       | 66.3      | 60.0      | ug/L  | 111              |
| TPH (Gasoline Range) | 06.13.95      | 957216       | 1010      | 1000      | ug/L  | 101              |
| 6. TPH/BTEX          | C506009*1     |              |           |           |       |                  |
| Date Analyzed        | 06.15.95      | 957216       | 06/15/95  | 06/15/95  | Date  | N/A              |
| Benzene              | 06.15.95      | 957216       | 18.9      | 20.0      | ug/L  | 95               |
| Toluene              | 06.15.95      | 957216       | 20.2      | 20.0      | ug/L  | 101              |
| Ethylbenzene         | 06.15.95      | 957216       | 20.1      | 20.0      | ug/L  | 101              |
| Total Xylene Isomers | 06.15.95      | 957216       | 65.0      | 60.0      | ug/L  | 108              |
| TPH (Gasoline Range) | 06.15.95      | 957216       | 960       | 1000      | ug/L  | 96               |
| 7. TPH/BTEX          | C506010*1     |              |           |           |       |                  |
| Date Analyzed        | 06.16.95      | 957216       | 06/16/95  | 06/16/95  | Date  | N/A              |
| Benzene              | 06.16.95      | 957216       | 19.4      | 20.0      | ug/L  | 97               |
| Toluene              | 06.16.95      | 957216       | 21.1      | 20.0      | ug/L  | 106              |
| Ethylbenzene         | 06.16.95      | 957216       | 19.6      | 20.0      | ug/L  | 98               |

BC ANALYTICAL

ORDER QC REPORT FOR C9506006

DATE REPORTED : 06/19/95

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LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

| PARAMETER            | DATE<br>ANALYZED | BATCH<br>NUMBER | LC<br>RESULT | LT<br>RESULT | UNIT. | PERCENT<br>RECOVERY |
|----------------------|------------------|-----------------|--------------|--------------|-------|---------------------|
| Total Xylene Isomers | 06.16.95         | 957216          | 64.7         | 60.0         | ug/L  | 108                 |
| TPH (Gasoline Range) | 06.16.95         | 957216          | 986          | 1000         | ug/L  | 99                  |



BC ANALYTICAL

ORDER QC REPORT FOR C9506006

DATE REPORTED : 06/19/95

ADDITIONAL LCS PRECISION (DUPLICATES)  
BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | LC1 RESULT | LC2 RESULT | UNIT  | RELATIVE % DIFF |
|----------------------|---------------|---------------|--------------|------------|------------|-------|-----------------|
| 1. TPH/BTEX          |               |               |              |            |            |       |                 |
| Date Analyzed        |               | 06.09.95      | 958132       | 06/09/95   | 06/10/95   | Date  | N/A             |
| Benzene              |               | 06.09.95      | 958132       | 5.49       | 5.74       | mg/M3 | 4               |
| Toluene              |               | 06.09.95      | 958132       | 5.30       | 5.56       | mg/M3 | 5               |
| Ethylbenzene         |               | 06.09.95      | 958132       | 5.28       | 5.56       | mg/M3 | 5               |
| Total Xylene Isomers |               | 06.09.95      | 958132       | 15.8       | 16.6       | mg/M3 | 5               |
| 2. TPH/BTEX          |               |               |              |            |            |       |                 |
| Date Analyzed        |               | 06.12.95      | 958133       | 06/12/95   | 06/13/95   | Date  | N/A             |
| Benzene              |               | 06.12.95      | 958133       | 22.3       | 21.5       | ug/L  | 4               |
| Toluene              |               | 06.12.95      | 958133       | 20.4       | 20.3       | ug/L  | 0               |
| Ethylbenzene         |               | 06.12.95      | 958133       | 20.9       | 20.3       | ug/L  | 3               |
| Total Xylene Isomers |               | 06.12.95      | 958133       | 63.2       | 61.9       | ug/L  | 2               |
| TPH (Gasoline Range) |               | 06.12.95      | 958133       | 959        | 1070       | ug/L  | 11              |
| 3. TPH/BTEX          |               |               |              |            |            |       |                 |
| Date Analyzed        |               | 06.13.95      | 957216       | 06/13/95   | 06/15/95   | Date  | N/A             |
| Benzene              |               | 06.13.95      | 957216       | 20.1       | 18.9       | ug/L  | 6               |
| Toluene              |               | 06.13.95      | 957216       | 21.2       | 20.2       | ug/L  | 5               |
| Ethylbenzene         |               | 06.13.95      | 957216       | 20.4       | 20.1       | ug/L  | 1               |
| Total Xylene Isomers |               | 06.13.95      | 957216       | 66.3       | 65.0       | ug/L  | 2               |
| TPH (Gasoline Range) |               | 06.13.95      | 957216       | 1010       | 960        | ug/L  | 5               |

BC ANALYTICAL

ORDER QC REPORT FOR C9506006

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DATE REPORTED : 06/19/95

MATRIX QC ACCURACY (SPIKES)  
 BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS % | MSD % | TRUE RESULT | UNIT |
|----------------------|---------------|---------------|--------------|------|-------|-------------|------|
| 1. TPiI/BTEX         | 9506013*1     |               |              |      |       |             |      |
| Benzene              |               | 06.13.95      | 957216       | 94   | 96    | 20.0        | ug/L |
| Toluene              |               | 06.13.95      | 957216       | 102  | 102   | 20.0        | ug/L |
| Ethylbenzene         |               | 06.13.95      | 957216       | 100  | 100   | 20.0        | ug/L |
| Total Xylene Isomers |               | 06.13.95      | 957216       | 110  | 110   | 60.0        | ug/L |
| TPH (Gasoline Range) |               | 06.13.95      | 957216       | 101  | 98    | 1000        | ug/L |

BC ANALYTICAL

ORDER QC REPORT FOR C9506006

DATE REPORTED : 06/19/95

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MATRIX QC PRECISION (DUPLICATE SPIKES)  
 BATCH QC REPORT

| PARAMETER            | SAMPLE NUMBER | DATE ANALYZED | BATCH NUMBER | MS RESULT | MSD RESULT | UNIT | RELATIVE % DIFF |
|----------------------|---------------|---------------|--------------|-----------|------------|------|-----------------|
| 1. TPH/BTEX          | 9506013*1     |               |              |           |            |      |                 |
| Date Analyzed        |               | 06.15.95      | 957216       | 06/15/95  | 06/15/95   | Date | N/A             |
| Benzene              |               | 06.15.95      | 957216       | 18.7      | 19.1       | ug/L | 2               |
| Toluene              |               | 06.15.95      | 957216       | 20.4      | 20.3       | ug/L | 0               |
| Ethylbenzene         |               | 06.15.95      | 957216       | 19.9      | 19.9       | ug/L | 0               |
| Total Xylene Isomers |               | 06.15.95      | 957216       | 66.1      | 65.9       | ug/L | 0               |
| TPH (Gasoline Range) |               | 06.15.95      | 957216       | 1010      | 975        | ug/L | 4               |

| METHOD    | ANALYTE                | BATCH  | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-----------|------------------------|--------|----------|----------|------|------|------|
| 9506006*1 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 958132 | 06/08/95 | 54.7     | 50.0 | 109  |      |
| 9506006*2 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 958132 | 06/08/95 | 48.8     | 50.0 | 98   |      |
| 9506006*3 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 958132 | 06/07/95 | 44.6     | 50.0 | 89   |      |
| 9506006*4 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 958133 | 06/12/95 | 51.4     | 50.0 | 103  |      |
| 9506006*5 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 958133 | 06/12/95 | 47.8     | 50.0 | 96   |      |
| 9506006*6 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 958133 | 06/12/95 | 52.4     | 50.0 | 105  |      |
| 9506006*7 |                        |        |          |          |      |      |      |
| 8015M     | a,a,a-Trifluorotoluene | 957216 | 06/13/95 | 54.3     | 50.0 | 109  |      |