00547

# GROUNDWATER MONITORING
# VALIDATED ANALYTICAL RESULTS FOR THE FOURTH QUARTER 1996
# ASH LANDFILL, SENECA ARMY DEPOT

**PREPARED FOR:**
U.S. Army Corps of Engineers
Hunstville, Alabama

**PREPARED BY:**

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June 1996
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# TABLES

TABLE 1

SENECA ARMY DEPOT ACTIVITY
1995/1996 GROUNDWATER MONITORING PROGRAM
GROUNDWATER ELEVATION DATA

| Monitoring Well | Elevation at Top of Riser (MSL) | Second Quarter 1995 | | | Third Quarter 1995 | | | Fourth Quarter 1995 | | | First Quarter 1996 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Date | Depth from Top of Riser (ft.) | Elevation of Water Level (ft.) | Date | Depth from Top of Riser (ft.) | Elevation of Water Level (ft.) | Date | Depth from Top of Riser (ft.) | Elevation of Water Level (ft.) | Date | Depth from Top of Riser (ft.) | Eleva Water |
| **sh Landfill** | | | | | | | | | | | | | |
| T-10 | 681.52 | 06/05/95 | 10.4 | 671.12 | 09/12/95 | 10.5 | 671.02 | 1/11/96 | 8.22 | 673.3 | 03/14/96 | 7.26 | 67 |
| T-11 | 658.22 | 06/05/95 | 7.2 | 651.02 | 09/12/95 | 8.39 | 649.83 | 1/11/96 | 4.94 | 653.28 | 03/14/96 | 4.44 | 65 |
| T-12 | 652.15 | 06/05/95 | Destroyed | | | | | | | | 03/14/96 | 7.94 | 64 |
| T-15 | 637.76 | 06/05/95 | 8.2 | 629.56 | 09/12/95 | 9.73 | 628.03 | 1/11/96 | 4.94 | 632.82 | 03/14/96 | 5.73 | 63 |
| T-16 | 637.51 | 06/05/95 | 4.68 | 632.83 | 09/12/95 | 5.36 | 632.15 | 1/11/96 | 3.18 | 634.33 | 03/14/96 | 2.66 | 63 |
| T-17 | 640.14 | 06/05/95 | 7.87 | 632.27 | 09/12/95 | 8.66 | 631.48 | 1/11/96 | 6.16 | 633.98 | 03/14/96 | 5.04 | 63 |
| T-18 | 656.68 | 06/05/95 | 8.24 | 648.44 | 09/12/95 | 8.81 | 647.87 | 1/11/96 | 7.22 | 649.46 | 03/14/96 | 7.08 | 64 |
| T-19 | 645.26 | 06/05/95 | 6.33 | 638.93 | 09/12/95 | 7.57 | 637.69 | 1/10/96 | 4.14 | 641.12 | 03/14/96 | 2.62 | 64 |
| T-20 | 647.28 | 06/05/95 | 7.69 | 639.59 | 09/12/95 | 8.83 | 638.45 | 1/11/96 | 6.89 | 640.39 | 03/14/96 | 6.64 | 64 |
| T-21 | 647.73 | 06/05/95 | Destroyed | | | | | | | | 03/14/96 | 8.16 | 63 |
| T-22 | 648.61 | 06/05/95 | 8.92 | 639.69 | 09/12/95 | 9.74 | 638.87 | 1/11/96 | 8.9 | 639.71 | 03/14/96 | 8.66 | 63 |
| T-23 | 641.58 | 06/05/95 | 6.95 | 634.63 | 09/12/95 | 7.94 | 633.64 | 1/11/96 | 4.74 | 636.84 | 03/14/96 | 4.17 | 63 |
| T-24 | 636.4 | 06/05/95 | 5.41 | 630.99 | 09/12/95 | 5.64 | 630.76 | 1/11/96 | 5.08 | 631.32 | 03/14/96 | 4.48 | 63 |
| T-25 | 637.09 | 06/05/95 | 7.2 | 629.89 | 09/12/95 | 9.84 | 627.25 | 1/10/96 | 5.63 | 631.46 | 03/14/96 | 4.04 | 63 |
| T-26 | 614.64 | 06/05/95 | 7.02 | 607.62 | 09/12/95 | N/A | 614.64 | 1/11/96 | | 614.64 | 03/14/96 | Not Measured | Not M |
| IW-27 | 639.32 | 06/05/95 | 6.85 | 632.47 | 09/12/95 | 6.74 | 632.58 | 1/11/96 | 6.04 | 633.28 | 03/14/96 | 5.7 | 63 |
| IW-28 | 637.21 | 06/05/95 | 5.93 | 631.28 | 09/12/95 | 6.12 | 631.09 | 1/11/96 | 5.66 | 631.55 | 03/14/96 | 5.23 | 63 |
| IW-29 | 637.31 | 06/05/95 | 7.38 | 629.93 | 09/12/95 | 7.78 | 629.53 | 1/11/96 | 6.68 | 630.63 | 03/14/96 | 6.2 | 63 |
| IW-30 | 640.32 | 06/05/95 | Dry | | 09/12/95 | 10.42 | 629.9 | 1/11/96 | 7.65 | 632.67 | 03/14/96 | 5.88 | 63 |
| IW-31 | 636.7 | 06/05/95 | 6.49 | 630.21 | 09/12/95 | 8.7 | 628.00 | 1/11/96 | 4.88 | 631.82 | 03/14/96 | 3.38 | 63 |
| IW-32 | 641.68 | 06/05/95 | 8 | 633.68 | 09/12/95 | 8.9 | 632.78 | 1/11/96 | 6.86 | 634.82 | 03/14/96 | 5.45 | 63 |
| IW-33 | 639.56 | 06/05/95 | 8.76 | 630.8 | 09/12/95 | 9.62 | 629.94 | 1/11/96 | 6.24 | 633.32 | 03/14/96 | 4.96 | 63 |
| IW-34 | 632.89 | 06/05/95 | 5.93 | 626.96 | 09/12/95 | 8.9 | 623.99 | 1/10/96 | 4.72 | 628.17 | 03/14/96 | 3.16 | 62 |
| IW-35D | 631.82 | 06/05/95 | 4.15 | 627.67 | 09/12/95 | 5.43 | 626.39 | 1/10/96 | 2.89 | 628.93 | 03/14/96 | 2.38 | 62 |
| IW-36 | 631.79 | 06/05/95 | 4.36 | 627.43 | 09/12/95 | 5.94 | 625.85 | 1/10/96 | 2.97 | 628.82 | 03/14/96 | 2.32 | 62 |
| IW-37 | 632.89 | 06/05/95 | 4.58 | 628.31 | 09/12/95 | 5.96 | 626.93 | 1/11/96 | 3.32 | 629.57 | 03/14/96 | 2.24 | 63 |
| IW-38D | 637.9 | 06/05/95 | 5.23 | 632.67 | 09/12/95 | 8.91 | 628.99 | 1/11/96 | 3.88 | 634.02 | 03/14/96 | 3.47 | 63 |
| IW-39 | 659.54 | 06/05/95 | 3.96 | 655.58 | 09/12/95 | 5.27 | 654.27 | 1/11/96 | 1.91 | 657.63 | 03/14/96 | Ice | |
| IW-40 | 659.3 | 06/05/95 | 6.48 | 652.82 | 09/12/95 | 7.46 | 651.84 | 1/11/96 | 4.44 | 654.86 | 03/14/96 | 3.81 | 65 |
| IW-41D | 694.02 | 06/05/95 | 8.48 | 685.54 | 09/12/95 | 8.76 | 685.26 | 1/11/96 | 7.32 | 686.7 | 03/14/96 | 7 | 68 |
| IW-42D | 683.04 | 06/05/95 | 5.97 | 677.07 | 09/12/95 | 8.34 | 674.70 | 1/11/96 | 4.02 | 679.02 | 03/14/96 | 3.53 | 67 |
| IW-43 | 657.73 | 06/05/95 | 4.72 | 653.01 | 09/12/95 | 5.73 | 652.00 | 1/11/96 | ice | NA | 03/14/96 | Ice | |
| IW-44 | 653.85 | 06/05/95 | Destroyed | | | | | | | | 03/14/96 | 8.93 | 64 |
| IW-45 | 650.9 | 06/05/95 | 5.26 | 645.64 | 09/12/95 | 6.34 | 644.56 | 1/11/96 | ice | NA | 03/14/96 | Ice | |
| IW-46 | 650.41 | 06/05/95 | 7.06 | 643.35 | 09/12/95 | 7.96 | 642.45 | 1/11/96 | 6.16 | 644.25 | 03/14/96 | 5.72 | 64 |
| IW-47 | 628.06 | 06/05/95 | 6.48 | 621.58 | 09/12/95 | 5.96 | 622.10 | 1/11/96 | ice | NA | 03/14/96 | Ice | |
| IW-48 | 648.32 | 06/05/95 | 6.13 | 642.19 | 09/12/95 | 6.86 | 641.46 | 1/11/96 | 3.7 | 644.62 | 03/14/96 | Ice | |
| IW-49D | 650.5 | 06/05/95 | 7.1 | 643.4 | 09/12/95 | 7.88 | 642.62 | 1/11/96 | 6.09 | 644.41 | 03/14/96 | 5.71 | 64 |
| IW-50D | 649.88 | 06/05/95 | 6.88 | 643 | 09/12/95 | 7.69 | 642.19 | 1/11/96 | 6.02 | 643.86 | 03/14/96 | 5.78 | 64 |
| IW-51D | 628.24 | 06/05/95 | 6.63 | 621.61 | 09/12/95 | 6.12 | 622.12 | 1/11/96 | | 628.24 | 03/14/96 | 2.78 | 62 |
| IW-52D | 626.35 | 06/05/95 | 6.12 | 620.23 | 09/12/95 | 5.68 | 620.67 | 1/11/96 | 3 | 623.35 | 03/14/96 | Ice | |
| IW-53 | 639.41 | 06/05/95 | 8.45 | 630.96 | 09/12/95 | 8.94 | 630.47 | 1/11/96 | 7.86 | 631.55 | 03/14/96 | 6.98 | 63 |
| IW-54D | 639.11 | 06/05/95 | 8.3 | 630.81 | 09/12/95 | 8.76 | 630.35 | 1/11/96 | 7.66 | 631.45 | 03/14/96 | 6.97 | 63 |
| IW-55D | 639.16 | 06/05/95 | 8.18 | 630.98 | 09/12/95 | 8.62 | 630.54 | 1/11/96 | 7.42 | 631.74 | 03/14/96 | 6.88 | 63 |
| IW-56 | 630.51 | 06/05/95 | 4.14 | 626.37 | 09/12/95 | 4.31 | 626.20 | 1/11/96 | ice | NA | 03/14/96 | Ice | |
| IW-57D | 629.82 | 06/05/95 | 3.79 | 626.03 | 09/12/95 | 3.7 | 626.12 | 1/11/96 | 2.42 | 627.4 | 03/14/96 | 1.91 | 62 |
| IW-58D | 629.69 | 06/05/95 | 3.6 | 626.09 | 09/12/95 | 3.52 | 626.17 | 1/11/96 | 2.2 | 627.49 | 03/14/96 | 2.25 | 62 |
| IW-59 | 656.83 | 06/05/95 | 3.26 | 653.57 | 09/12/95 | 4.58 | 652.25 | 1/11/96 | 2.14 | 654.69 | 03/14/96 | Ice | |
| IW-60 | 660.15 | 06/05/95 | 3.83 | 656.32 | 09/12/95 | 5.33 | 654.82 | 1/11/96 | 2.34 | 657.81 | 03/14/96 | Ice | |

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## Table 2

### Ash Landfill 1996 First Quarter Groundwater Monitoring
### Validated Volatile Organic Analyses Results (Method 524.2)

| ES ID | | BNS | FHD | FHS | MW27 | MW30 | MW336 | MW36 | MW36R | MW40 | MW45 | MW47 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOCATION | | ASH | ASH | ASH | ASH | ASH | ASH | ASH | ASH | ASH | ASH | ASH |
| MATRIX | | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| SAMPLE DATE | | 03/16/96 | 03/16/96 | 03/16/96 | 03/19/96 | 03/15/96 | 03/16/96 | 03/16/96 | 03/16/96 | 03/15/96 | 03/17/96 | 03/18/96 |
| SDG NO. | | 57313 | 57313 | 57313 | 57342 | 57313 | 57313 | 57313 | 57313 | 57313 | 57313 | 57313 |
| COMPOUND | UNITS | | | | | | | | | | | |
| Dichlorodifluromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl Chloride | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromomethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Acetone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Carbon Disulfide | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methylene Chloride | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1-Dichloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 2-Butanone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | 5 U | 5 U |
| 2,2-Dichloropropane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroform | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 | 0.5 U | 0.5 U | 0.5 U |
| Bromochloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1-Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Carbon Tetrachloride | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Benzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.6 | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloroctopane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromodichloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4-Methyl-2-Pentanone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Toluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.4 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.4 J |
| trans-1,3-Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 2-Hexanone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,3 - Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetrachloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dibromoethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1,2-Tetrachloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Ethylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Xylene (total) | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Isopropylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,3-Trichloropropane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 2-Chlorotoluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,3,5-Trimethylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4-Chlorotoluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| tert-Butylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,4-Trimethylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| sec-Butylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| p-Isopropyltoluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,3-Dichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,4-Dichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Butylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,4-Trichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Naphthalene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,3-Trichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |

**Table 2**

**ASH Landfill 1995 Fourth Quarter Groundwater Monitoring**
**Validated Volatile Organic Analyses Results (Method 524.2)**

| ES ID | | MW48 | MW56 | MW59 | MW60 | PT11 | PT19 | TB-3-16 | TB31996 |
|---|---|---|---|---|---|---|---|---|---|
| LOCATION | | ASH | ASH | ASH | ASH | ASH | ASH | ASH | ASH |
| MATRIX | | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| SAMPLE DATE | | 03/17/96 | 03/16/96 | 03/17/96 | 03/17/96 | 03/18/96 | 3/15/96 | 03/16/96 | 03/19/96 |
| SDG NO. | | 57313 | 57313 | 57313 | 57313 | 57313 | 57313 | 57313 | 57371 |
| COMPOUND | UNITS | | | | | | | | |
| Dichlorodifluromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl Chloride | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromomethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Acetone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 | 5 |
| 1,1-Dichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Carbon Disulfide | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methylene Chloride | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1-Dichloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | ug/L | 0.5 U | 0.8 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 2-Butanone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 | 4 J |
| 2,2-Dichloropropane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroform | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 | 0.5 U |
| Bromochloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1-Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Carbon Tetrachloride | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Benzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloroctopane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromodichloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4-Methyl-2-Pentanone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Toluene | ug/L | 0.5 U | 0.4 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,3-Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 2-Hexanone | ug/L | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,3 - Dichloropropene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetrachloroethene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dibromoethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1,2-Tetrachloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Ethylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Xylene (total) | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Isopropylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,3-Trichloropropane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 2-Chlorotoluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,3,5-Trimethylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4-Chlorotoluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| tert-Butylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,4-Trimethylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| sec-Butylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| p-Isopropyltoluene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,3-Dichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,4-Dichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Butylbenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,4-Trichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Naphthalene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2,3-Trichlorobenzene | ug/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |

## FIGURES

N

SEAD RAILROAD

APPROXIMATE LOCATION OF 6" WATER MAIN

COOKING GREASE PITS DISPOSAL AREA

W-A

DEBRIS PILE

NON COMBUSTIBLE FILL LANDFILL

ASH LANDFILL

WEST SMITH FARM ROAD

ABANDONED INCINERATOR BUILDING

W-B

W-C

W-D

W-F

W-G

CENTURY ROAD

APPROXIMATE LOCATION OF 6" WATER MAIN

WEST PATROL ROAD

CONRAIL RAILROAD

ASPHALT PATCH

FARMHOUSE WELLS (1250 FEET)

PT-26 (1315 FEET)

SEAD-1 EL.630.90'

SEAD-2 EL.634.91'

PT-10 674.3

MW-42D

MW-39

MW-43

MW-40 655.5

MW-60

MW-59

PT-11 653.3

PT-18 649.6

MW-44 644.9

PT-12 644.2

MW-46

MW-49D

MW-50D 644.7

MW-45

MW-48

PT-9 642.6

PT-21

PT-20 640.6

PT-22 640.0

PT-23 637.1

MW-27

MW-28 633.6 632.0

MW-54D 632.4

MW-53

MW-55D

MW-29 631.0

PT-24 631.9

MW-38D 634.8

PT-16

PT-17 635.1

MW-30 634.4

MW-32 636.2

MW-33 634.6

MW-31 633.3

PT-25 633.0

PT-15 632.0

MW-34 629.7 (625 FEET)

MW-36

MW-35D 629.5

MW-56

MW-57D

MW-58D

MW-37

MW-51D

MW-47

MW-52D

655

650

645

640

635

630

ACAD\SENECA\GRDWATER\ASHLDGWM.DWG

LEGEND:

- BURNING PAD DESIGNATION
- PAD OR GRID BORING
- GROUND CONTOUR AND ELEVATION
- W-1 WETLAND & DESIGNATION
- UTILITY POLE
- TREE
- BRUSH
- MW-34 628.2 MONITORING WELL & DESIGNATION AND MSL ELEVATION DATUM
- 645 GROUNDWATER CONTOUR LINE (DASHED WHERE INFERRED) MSL DATUM
- ARROW INDICATES PREDOMINANT GROUNDWATER FLOW DIRECTION

125 0 125 250

1" = 250'

PARSONS

PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL
GROUNDWATER MONITORING PROGRAM

DEPT. ENVIRONMENTAL ENGINEERING

Dwg. No. 725980-01009

FIGURE 1
GROUNDWATER ELEVATION CONTOUR PLAN
MARCH 14, 1996

SCALE 1" = 250'

DATE JUNE 1996

REV A

# APPENDIX A

# FIELD DATA

## Ash Landfill Fourth Quarter 1996 Groundwater Monitoring Program

1. Groundwater Sampling Forms

2. Chain-of-Custody Forms

# 1. Groundwater Sampling Forms

# GROUNDWATER ELEVATION REPORT

NEERING-SCIENCE, INC. | CLIENT: ACOE | DATE: 3/14/96

rterly Monitoring
Ash Landfill

PROJECT NO: 725980-01009
INSPECTOR: BH, AJP

| MENT: TOR | BGD | TIME | REMARKS | WATER LEVEL INDICATOR: INSTRUMENT | CORRECTION FACTOR |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS:

| E | DEPTH TO WATER | DEPTH TO PRODUCT | CORRECTED WATER LEVEL | MEASURED POW | INSTALLED POW | PRODUCT SPEC. GRAV. | WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of: riser, concrete, protective casing, etc.) |
|---|---|---|---|---|---|---|---|
| 5 | 3.16 | | | | | | |
| 01 | 5.73 | | | | | | |
| 4 | 4.04 | | | | | | |
| 05 | 4.96 | | | | | | |
| 08 | 3.38 | | | | | | |
| 09 | 5.45 | | | | | | |
| 4 | 5.04 | | | | | | |
| 3 | 5.88 | | | | | | |
| 7 | 6.88 | | | | | | |
| 0 | 6.98 | | | | | | |
| 1 | 6.97 | | | | | | |
| 4 | 4.48 | | | | | | |
| 5 | 6.75 | | | | | | |
| 7 | 5.23 | | | | | | |

EPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

# GROUNDWATER ELEVATION REPORT

NEERING-SCIENCE, INC. | CLIENT: ACOE | DATE: 3/14/96

Quarterly Mon. Event
Ash Landfill

PROJECT NO: 725980-01009
INSPECTOR: BH, AWP

PMENT:

| CTOR | BGD | TIME | REMARKS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

WATER LEVEL INDICATOR:

| INSTRUMENT | CORRECTION FACTOR |
|---|---|
| | |
| | |

COMMENTS:

| E | DEPTH TO WATER | DEPTH TO PRODUCT | CORRECTED WATER LEVEL | MEASURED POW | INSTALLED POW | PRODUCT SPEC. GRAV. | WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of: riser, concrete, protective casing, etc.) |
|---|---|---|---|---|---|---|---|
| 0 | 5.70 | | | | | | |
| 3 | 4.17 | | | | | | |
| 6 | 3.47 | | | | | | |
| 7 | 2.66 | | | | | | Ice |
| 2 | 2.24 | | | | | | 4" Water Runoff in Ditch |
| 0 | 2.99' | | | | | | |
| 2. | 2.98' | | | | | | |
| 7 | 2.71 | | | | | | Ice |
| 5 | 2.08 | | | | | | |
| | 2.40 | | | | | | |
| | 2.34 | | | | | | |
| 0 | 2.00 | | | | | | |
| 5 | 3.53 | | | | | | |
| 2 | 4.44 | | | | | | |

EPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

# GROUNDWATER ELEVATION REPORT

NEERING-SCIENCE, INC. | CLIENT: ACOE | DATE: 3/14/96

Quarterly Monitoring
Ash Landfill

PROJECT NO: 725980-01009
INSPECTOR: BH, AJP

PMENT:

| CTOR | BGD | TIME | REMARKS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

WATER LEVEL INDICATOR:

| INSTRUMENT | CORRECTION FACTOR |
|---|---|
| | |
| | |
| | |

COMMENTS:

| E | DEPTH TO WATER | DEPTH TO PRODUCT | CORRECTED WATER LEVEL | MEASURED POW | INSTALLED POW | PRODUCT SPEC. GRAV. | WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of: riser, concrete, protective casing, etc.) |
|---|---|---|---|---|---|---|---|
| 54 | Frozen | | | | | | Frozen 2.08 |
| 5 | Frozen | | | | | | Frozen 1.92 |
| 2 | 7.08 | | | | | | |
| 3 | 3.81' | | | | | | |
| 6 | Frozen | | | | | | No Lock / Frozen 2.49' |
| 8 | Frozen | | | | | | Frozen 1.72' |
| 3. | 8.93' | | | | | | No Lock |
| 2 | 5.78' | | | | | | |
| 3 | 5.71' | | | | | | |
| 5 | 5.72' | | | | | | |
| 0 | 2.62 | | | | | | |
| 5 | 7.26 | | | | | | |
| | | | | | | | |
| | | | | | | | |

EPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

# GROUNDWATER ELEVATION REPORT

NEERING-SCIENCE, INC. | CLIENT: ACOE | DATE: 3/14/96

Quarterly Monitoring '96'
Ash Landfill

PROJECT NO: 7258.01.003
INSPECTOR: BH

PMENT:

| CTOR | BGD | TIME | REMARKS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

WATER LEVEL INDICATOR:

| INSTRUMENT | CORRECTION FACTOR |
|---|---|
| | |
| | |
| | |

COMMENTS:

| E | DEPTH TO WATER | DEPTH TO PRODUCT | CORRECTED WATER LEVEL | MEASURED POW | INSTALLED POW | PRODUCT SPEC. GRAV. | WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of: riser, concrete, protective casing, etc.) |
|---|---|---|---|---|---|---|---|
| 54 | 6.64 | | | | | | |
| 59 | 8.66 | | | | | | |
| 00 | 5.16 | | | | | | Need lock |
| 0 | Frozen | | | | | | Frozen 4.72 |
| 2 | Frozen | | | | | | Frozen 2.62 |
| 8 | 2.94 | | | | | | Need Lock |
| 8. | Frozen | | | | | | Frozen 2.54 |
| 9 | 2.78 | | | | | | |
| 1 | Frozen | | | | | | Frozen 2.72 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

EPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

# GROUNDWATER ELEVATION REPORT

ERING–SCIENCE, INC. | CLIENT: ACOE | DATE: 3/14/96

Quarterly Monitoring
Ash Landfill

PROJECT NO: 725980-01009

INSPECTOR: BH, RJD

EQUIPMENT:

| ETECTOR | BGD | TIME | REMARKS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

WATER LEVEL INDICATOR:

| INSTRUMENT | CORRECTION FACTOR |
|---|---|
| | |
| | |
| | |

COMMENTS:

| TIME | DEPTH TO WATER | DEPTH TO PRODUCT | CORRECTED WATER LEVEL | MEASURED POW | INSTALLED POW | PRODUCT SPEC. GRAV. | WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of: riser, concrete, protective casin |
|---|---|---|---|---|---|---|---|
| 05 | 2.32' | | | | | | |
| 07 | 2.38' | | | | | | |
| 11 | 2.25' | | | | | | |
| 12 | 1.91' | | | | | | |
| 13 | Frozen 2.99' | | | | | | Frozen 2.99' |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

L DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

INSPECTOR: _____ PAGE: OF

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-16-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Equinox<br>CHAIN OF CUSTODY #: |
| WELL NUMBER: BW-5 | | MONITORING INSTRUMENT: — DETECTOR: — |
| SCREENED INTERVAL (TOC): | | |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): STANDING WATER VOLUME IN WELL (gallons):

WELL DEPTH (TOC): THREE WELL VOLUMES (gallons):

FEET OF WATER IN WELL: ONE: TWO: THREE:

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: TIME END PURGING:

| TIME: | | | | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | | | | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | | | | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | | | | | | |
| VOLUME OF WATER REMOVED (gals) | | | | | | |
| TEMPERATURE (deg. C) | | | | | | |
| SPEC. COND (umhos) | | | | | | |
| PH | | | | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-16-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 0950 | | | | | |
| DEPTH TO WATER (ft) | | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | | | | | | |
| "STATIC" WATER COLUMN (ft) | | | | | | |
| %RECOVERY | | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 0950 | 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

Replicate Sample Names:

| Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|
| | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-16-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: FH-D | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: — DETECTOR: — |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): STANDING WATER VOLUME IN WELL (gallons):

WELL DEPTH (TOC): THREE WELL VOLUMES (gallons):

FEET OF WATER IN WELL: ONE: TWO: THREE:

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: TIME END PURGING:

| TIME: | | | | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | | | | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | | | | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | | | | | | |
| VOLUME OF WATER REMOVED (gals) | | | | | | |
| TEMPERATURE (deg. C) | | | | | | |
| SPEC. COND (umhos) | | | | | | |
| PH | | | | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-16-96 | | | | |
|---|---|---|---|---|---|
| TIME | 0945 | | | | |
| DEPTH TO WATER (ft) | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | | | | | |
| "STATIC" WATER COLUMN (ft) | | | | | |
| % RECOVERY | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE:

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 0945 | 3 x 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-16-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH/KKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Severn Trent |
| WELL NUMBER: FH-5 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT / DETECTOR |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): STANDING WATER VOLUME IN WELL (gallons):

WELL DEPTH (TOC): THREE WELL VOLUMES (gallons):

FEET OF WATER IN WELL: ONE: TWO: THREE:

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: TIME END PURGING:

| TIME: | | | | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | | | | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | | | | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | | | | | | |
| VOLUME OF WATER REMOVED (gals) | | | | | | |
| TEMPERATURE (deg. C) | | | | | | |
| SPEC. COND (umhos) | | | | | | |
| PH | | | | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-16-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 0940 | | | | | |
| DEPTH TO WATER (ft) | | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | | | | | | |
| "STATIC" WATER COLUMN (ft) | | | | | | |
| % RECOVERY | | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE:

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 0940 | 3 x 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-17-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| | | LABORATORY: Aquatec |
| LOCATION: ASH LANDFILL | | CHAIN OF CUSTODY #: |
| WELL NUMBER: PT-11 | | MONITORING INSTRUMENT: OVM; DETECTOR: PID |
| SCREENED INTERVAL (TOC): | | |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 4.28
WELL DEPTH (TOC): 19.54
FEET OF WATER IN WELL: 15.26
STANDING WATER VOLUME IN WELL (gallons): 2.48
THREE WELL VOLUMES (gallons):
ONE: 2.48 TWO: 4.96 THREE: 7.44

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 0920 TIME END PURGING:

| TIME: | 0932 | 0937 | 0140 | 0943 | illegible | illegible |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 10.1 | 11.45 | 13.0 | 13.75 | 15.0 | 12.0 |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 10.5 | 12.5 | 13.0 | 14.5 | 15.5 | 12.5 |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 440 ml/min | 360 | 1.0 | 360 | 360 | 360 ml/min |
| VOLUME OF WATER REMOVED (gals) | 1.0 | .25 | .50 | .25 | .25 | .25 |
| TEMPERATURE (deg. C) | 3[illegible]°C | 4°C | 4.75 | 5.0 | 5.5 | 5.5 |
| SPEC. COND (umhos) | 575 | 575 | [illegible] | 600 | 600 | 600 |
| PH | 7.07 | 7.10 | 7.10 | 7.12 | 7.13 | 7.13 |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| | | | | | | |
|---|---|---|---|---|---|---|
| DATE | 3/17/96 | 3-18-96 | | | | |
| TIME | 1455 | 1110 | | | | |
| DEPTH TO WATER (ft) | 7.00 | 5.78 | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 11.31 | 13.76 | | | | |
| "STATIC" WATER COLUMN (ft) | 15.26 | 15.26 | | | | |
| % RECOVERY | 74 | 90% | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1110 | 3 vials 40ml | Clear | N.A |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or (NO)

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

**COMMENTS:**

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-16-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-36 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: — / DETECTOR: — |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 2.39
WELL DEPTH (TOC): 16.58
FEET OF WATER IN WELL: 14.19
STANDING WATER VOLUME IN WELL (gallons):
THREE WELL VOLUMES (gallons):
ONE: 2.31 TWO: 4.62 THREE: 6.93

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1311 TIME END PURGING: 1335

| TIME: | 1320 | 1327 | 1335 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.68 | 4.25 | 3.81 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 10.5 | 9.5 | 7.5 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 1500 | 1500 | 1500 | | | |
| VOLUME OF WATER REMOVED (gals) | 2.3 | 2.3 | 2.75 | | | |
| TEMPERATURE (deg. C) | 5.5°C | 5.5° | 5.5° | | | |
| SPEC. COND (umhos) | 475 | 475 | 450 | | | |
| PH | 7.13 | 7.21 | 7.10 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-16-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1400 | | | | | |
| DEPTH TO WATER (ft) | 2.32 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 14.07 | | | | | |
| "STATIC" WATER COLUMN (ft) | 14.19 | | | | | |
| % RECOVERY | 100% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1400 | 15 X 40 ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: (YES) or NO

MRD SAMPLE NAME: MW-36MRD

QA\QC RINSATE SAMPLE NAME: MW-36R

MATRIX SPIKE SAMPLE COLLECTED: (YES) or NO

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3/15/94 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, AJP |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: FT-19 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: D.M. DETECTOR: PID ppm |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 2.22
WELL DEPTH (TOC): 11.70
FEET OF WATER IN WELL: 9.48
STANDING WATER VOLUME IN WELL (gallons): 1.54
THREE WELL VOLUMES (gallons):
ONE: 1.54 TWO: 3.08 THREE: 4.62

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 0930 TIME END PURGING: 0953

| TIME: | 0938 | 0946 | 0952 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 2.80 | 3.16 | 3.48 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 11.70 | 9.70 | 9.70 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 450 | 870 | 870 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.5 | 1.5 | 1.7 | | | |
| TEMPERATURE (deg. C) | 4.9°C | 4.0°C | 4.0°C | | | |
| SPEC. COND (umhos) | 480 | 445 | 450 | | | |
| PH | 7.15 | 7.25 | 7.23 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3/15/94 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1000 | | | | | |
| DEPTH TO WATER (ft) | 2.30 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 9.40 | | | | | |
| "STATIC" WATER COLUMN (ft) | 9.48 | | | | | |
| % RECOVERY | 99.2 | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1000 | 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

**COMMENTS:**

*Well stem loose

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-18-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: B.H. / AST |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-27 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: OVM / DETECTOR: PID |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 5.25
WELL DEPTH (TOC): 10.52
FEET OF WATER IN WELL: 5.27
STANDING WATER VOLUME IN WELL (gallons):
THREE WELL VOLUMES (gallons):
ONE: .86 TWO: 1.72 THREE: 2.58

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1258 TIME END PURGING: 1327

| TIME: | 1306 | 1326 | | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 5.18 | 9.96 | | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 10.52 | 10.52 | | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 180 | 180 | | | | |
| VOLUME OF WATER REMOVED (gals) | .2 | .25 | | | | |
| TEMPERATURE (deg. C) | 6°C | 6°C | | | | |
| SPEC. COND (umhos) | 450 | 460 | | | | |
| PH | 6.98 | 7.07 | | | | |

SLOW (WELL)

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-19-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 0950 | | | | | |
| DEPTH TO WATER (ft) | 5.76 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 4.76 | | | | | |
| "STATIC" WATER COLUMN (ft) | 5.22 | | | | | |
| % RECOVERY | 90% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer MW-27 Ash

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 0950 | 3 Vials 40ml | Cloudy | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or (NO)

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

**COMMENTS:**

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3/15/96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, AJP |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-30 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: OVM / DETECTOR: PID 62 ppm |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 5.33
WELL DEPTH (TOC): 10.52
FEET OF WATER IN WELL: 5.19
STANDING WATER VOLUME IN WELL (gallons): .84
THREE WELL VOLUMES (gallons):
ONE: .84 TWO: 1.68 THREE: 2.52

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1025 TIME END PURGING:

| TIME: | 1032 | 1039 | 1046 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 5.42 | 5.56 | 5.48 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 10.52 | 8.52 | 8.52 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 660 | 660 | 660 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.0 | 1.0 | 1.2 | | | |
| TEMPERATURE (deg. C) | 4.0°C | 4.0°C | 4.0°C | | | |
| SPEC. COND (umhos) | 430 | 428 | 430 | | | |
| PH | 7.4 | 7.43 | 7.40 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3/15/96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1100 | | | | | |
| DEPTH TO WATER (ft) | 5.33 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 5.19 | | | | | |
| "STATIC" WATER COLUMN (ft) | 5.19 | | | | | |
| % RECOVERY | 100% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1100 | 3X 40 ml | Clear | NA |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3/15/96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, AJP |
| | | LABORATORY: Aquatec |
| LOCATION: ASH LANDFILL | | CHAIN OF CUSTODY #: |
| WELL NUMBER: MW 40 | | MONITORING INSTRUMENT: OVM DETECTOR: PID 6ppm |
| SCREENED INTERVAL (TOC): | | |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 3.62
WELL DEPTH (TOC): 14.71
FEET OF WATER IN WELL: 11.09
STANDING WATER VOLUME IN WELL (gallons): 1.81
THREE WELL VOLUMES (gallons):
ONE: 1.81 TWO: 3.62 THREE: 5.43

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1115 TIME END PURGING:

| TIME: | 11:21 | 11:40 | 12:00 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.01 | 7.61 | 8.06 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 14.71 | 12.0 | 12.0 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 650 ml/min | 230 | 430 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.8 | 3.9 | 5.5 | | | |
| TEMPERATURE (deg. C) | 5.2 | 6.0 | 6.0 | | | |
| SPEC. COND (umhos) | 345 | 360 | 350 | | | |
| PH | 7.48 | 7.48 | 7.50 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| | | | | | | |
|---|---|---|---|---|---|---|
| DATE | 3/15/96 | | | | | |
| TIME | 1345 | | | | | |
| DEPTH TO WATER (ft) | 3.96 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 10.75 | | | | | |
| "STATIC" WATER COLUMN (ft) | 11.09 | | | | | |
| % RECOVERY | 97% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1345 | 3X 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-17-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: CS/JH |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-45 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT / DETECTOR |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

| | | | |
|---|---|---|---|
| STATIC DEPTH TO WATER (TOC): | 2.70 | STANDING WATER VOLUME IN WELL (gallons): | .92 |
| WELL DEPTH (TOC): | 8.34 | THREE WELL VOLUMES (gallons): | |
| FEET OF WATER IN WELL: | 5.64 | ONE: | TWO: 2 THREE: 3 |

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1405 TIME END PURGING:

| TIME: | 1413 | 1421 | 1432 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 4.05 | 4.2 | 4.2 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 3.5 | 3.5 | 3.5 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 220 | 220 | 220 | | | |
| VOLUME OF WATER REMOVED (gals) | 1 | 1 | 1 | | | |
| TEMPERATURE (deg. C) | 2.5 | 3.5 | 3.5 | | | |
| SPEC. COND (umhos) | 360 | 380 | 380 | | | |
| PH | 7.23 | 7.13 | 7.08 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| | | | | | | |
|---|---|---|---|---|---|---|
| DATE | 3-17-96 | | | | | |
| TIME | 1445 | | | | | |
| DEPTH TO WATER (ft) | 2.80 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 5.54 | | | | | |
| "STATIC" WATER COLUMN (ft) | 5.64 | | | | | |
| % RECOVERY | 98.27% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1445 | 3 vials 40ml | Clear | NA |
| | | | | |
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REPLICATE SAMPLES:

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or NO

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

INVESTIGATION DERIVED WASTE (IDW):

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-16-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-47 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: HNU / DETECTOR: PID |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 2.07
WELL DEPTH (TOC): 8.52
FEET OF WATER IN WELL: 5.71
STANDING WATER VOLUME IN WELL (gallons): .96
THREE WELL VOLUMES (gallons):
ONE: 1.0 TWO: 1.92 THREE: 2.5

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1020 TIME END PURGING: 1052

| TIME: | 1032 | 1043 | 1052 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.30 | 3.40 | 3.40 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 7.0 | 3.5 | 3.5 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | .320 | .250 | .250 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.0 | 1.0 | 1.5 | | | |
| TEMPERATURE (deg. C) | 1.5°C | 1.2°C | 1.5 | | | |
| SPEC. COND (umhos) | 380 | 370 | 370 | | | |
| PH | 6.93 | 7.00 | 7.01 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-16-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1100 | | | | | |
| DEPTH TO WATER (ft) | 2.30 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 3.37 | | | | | |
| "STATIC" WATER COLUMN (ft) | 3.07 | | | | | |
| % RECOVERY | 110 | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1100 | 3x 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

Replicate Sample Names:

| Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|
| | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3/17/96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: CS/BJT |
| | | LABORATORY: Aquatec |
| LOCATION: ASH LANDFILL | | CHAIN OF CUSTODY #: |
| WELL NUMBER: MW-48 | | MONITORING INSTRUMENT / DETECTOR |
| SCREENED INTERVAL (TOC): | | |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 3.40
WELL DEPTH (TOC): 11.50
FEET OF WATER IN WELL: 8.10
STANDING WATER VOLUME IN WELL (gallons): 1.32
THREE WELL VOLUMES (gallons):
ONE: 1.32 TWO: 2.64 THREE: 3.96

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1330 TIME END PURGING:

| TIME: | 1340 | 1345 | 1351 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.9 | 3.9 | 3.9 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 8.0 | 8.0 | 8.0 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 600 | 600 | 600 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.3 | 1.3 | 1.3 | | | |
| TEMPERATURE (deg. C) | 4.0 | 4.0 | 4.0 | | | |
| SPEC. COND (umhos) | 350 | 350 | 350 | | | |
| PH | 7.29 | 7.25 | 7.19 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-17-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1410 | | | | | |
| DEPTH TO WATER (ft) | 3.40 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 8.10 | | | | | |
| "STATIC" WATER COLUMN (ft) | 8.10 | | | | | |
| % RECOVERY | 100% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1410 | 3 vials 40 ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: YES or NO

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or NO

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

**COMMENTS:**

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-16-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, RKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-5C | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: — DETECTOR: — |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 3.42
WELL DEPTH (TOC): 6.55
FEET OF WATER IN WELL: 3.12
STANDING WATER VOLUME IN WELL (gallons): .52
THREE WELL VOLUMES (gallons):
ONE: .52 TWO: 1.24 THREE: 1.86

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1123 TIME END PURGING: 1211

| TIME: | 1128 | 1135 | 1140 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.37 | 3.40 | 3.35 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 5.98 | 4.88 | 4.88 | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 310 | 250 | 250 | | | |
| VOLUME OF WATER REMOVED (gals) | .08 | .05 | .035 | | | |
| TEMPERATURE (deg. C) | 12 | 1°C | 1- | | | |
| SPEC. COND (umhos) | 410 | 400 | 410 | | | |
| PH | 7.05 | 7.05 | 7.03 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-16-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1200 | | | | | |
| DEPTH TO WATER (ft) | 3.20 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 3.42 | | | | | |
| "STATIC" WATER COLUMN (ft) | 3.42 | | | | | |
| % RECOVERY | 100 | | | | | |

Notes:

(1) Determine water column in the well for both "after purge" and "static" conditions by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to calculate the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Baiker

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1200 | 40ml | Clear | NA |
| | | | | |
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**REPLICATE SAMPLES:**

REPLICATE SAMPLE COLLECTED: YES or NO

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

**QA\QC:**

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

**INVESTIGATION DERIVED WASTE (IDW):**

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

Well was freezing. Had to break ice; ice plug floating in well

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-17-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| LOCATION: ASH LANDFILL | | LABORATORY: Aquatec |
| WELL NUMBER: MW-59 | | CHAIN OF CUSTODY #: |
| SCREENED INTERVAL (TOC): | | MONITORING INSTRUMENT: OVM DETECTOR: PID Oppm |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 2.11
WELL DEPTH (TOC): 9.99
FEET OF WATER IN WELL: 7.88
STANDING WATER VOLUME IN WELL (gallons): 1.28
THREE WELL VOLUMES (gallons):
ONE: 1.28 TWO: 2.58 THREE: 3.87

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1004 TIME END PURGING:

| TIME: | 1014 | 1021 | 1026 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.80 | 3.80 | 3.85 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 8' | 5' | 5' | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 550 | 580 | 580 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.3 | 1.3 | 1.3 | | | |
| TEMPERATURE (deg. C) | 3.5°C | 3.5 | 3.5 | | | |
| SPEC. COND (umhos) | 800 | 850 | 850 | | | |
| PH | 6.75 | 6.67 | 6.65 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-17-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1120 | | | | | |
| DEPTH TO WATER (ft) | 2.10 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 1.89 | | | | | |
| "STATIC" WATER COLUMN (ft) | 7.88 | | | | | |
| % RECOVERY | 99.8% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1120 | 3 vials 40 ml | Clear | NA |
| | | | | |
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REPLICATE SAMPLES:

REPLICATE SAMPLE COLLECTED: YES or (NO)

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

INVESTIGATION DERIVED WASTE (IDW):

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

# SAMPLING RECORD FOR REPLICATES - GROUNDWATER

| | | |
|---|---|---|
| PARSONS ENGINEERING-SCI.,INC. | CLIENT: USACOE | DATE: 3-17-96 |
| PROJECT: QUARTERLY MONITORING | | INSPECTOR: BH, KKS |
| | | LABORATORY: Aquatec |
| LOCATION: ASH LANDFILL | | CHAIN OF CUSTODY #: |
| WELL NUMBER: MW-60 | | MONITORING INSTRUMENT: OVM; DETECTOR: PID 0ppm |
| SCREENED INTERVAL (TOC): | | |

**WELL DIAMETER FACTORS**

| DIAMETER (INCHES): | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GALLONS/FOOT: | 0.041 | 0.092 | 0.163 | 0.367 | 0.654 | 1.02 | 1.47 | 2.00 | 2.61 | 3.30 | 5.87 |

**PURGE INFORMATION:**

STATIC DEPTH TO WATER (TOC): 2.25
WELL DEPTH (TOC): 10.29
FEET OF WATER IN WELL: 8.04
STANDING WATER VOLUME IN WELL (gallons): 1.31
THREE WELL VOLUMES (gallons):
ONE: 1.31 TWO: 2.62 THREE: 3.93

## PURGING WITH A PERISTALTIC PUMP OR BAILER

(measure indicator parameters at one, two and three well volumes)

TIME BEGIN PURGING: 1030 TIME END PURGING:

| TIME: | 1045 | 1056 | 1104 | | | |
|---|---|---|---|---|---|---|
| DEPTH TO WATER (ft) | 3.60 | 4.80 | 4.85 | | | |
| DEPTH TO BOTTOM OPENING OF TEFLON TUBE (TOC) | 6.2' | 6.2' | 6.2' | | | |
| FLOW RATE (ml/min.) or VOL. OF BAILER (gal.) | 440 | 440 | 440 | | | |
| VOLUME OF WATER REMOVED (gals) | 1.3 | 1.3 | 1.3 | | | |
| TEMPERATURE (deg. C) | 3.25°C | 3.5°C | 4°C | | | |
| SPEC. COND (umhos) | 330 | 350 | 365 | | | |
| PH | 7.1 | 7.01 | 6.98 | | | |

## DEPTH TO WATER MEASUREMENTS AFTER PURGING

| DATE | 3-17-96 | | | | | |
|---|---|---|---|---|---|---|
| TIME | 1130 | | | | | |
| DEPTH TO WATER (ft) | 2.24 | | | | | |
| "AFTER PURGE" WATER COLUMN (ft) | 8.05 | | | | | |
| "STATIC" WATER COLUMN (ft) | 8.04 | | | | | |
| % RECOVERY | 99.9% | | | | | |

Notes:

(1) Determine water column in the well (for both "after purge" and "static" conditions) by subtracting the measured water level from the well point.

(2) Divide the "after purge" water column by the "static" water column and multiply by 100 to determine the percent of recovery for the well.

## SAMPLING INFORMATION

SAMPLING DEVICE: Bailer

| SAMPLE PARAMETER | TIME | CONTAINER | COLOR | TURBIDITY SAMPLE TAKEN AFTER (CHECK ONE) |
|---|---|---|---|---|
| VOC | 1130 | 3 vials 40 ml | Clear | NA |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REPLICATE SAMPLES:

REPLICATE SAMPLE COLLECTED: YES or (NO)

| Replicate Sample Names: | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 |
|---|---|---|---|---|
| | | | | |

QA\QC:

QA/QC SAMPLE COLLECTED: YES or (NO)

MRD SAMPLE NAME:

QA\QC RINSATE SAMPLE NAME:

MATRIX SPIKE SAMPLE COLLECTED: YES or (NO)

INVESTIGATION DERIVED WASTE (IDW): n/a

| | | | | |
|---|---|---|---|---|
| Date: | | | | |
| Volume Transfered to Drum: | | | | |
| Drum Number: | | | | |

COMMENTS:

## 2. Chain-of-Custody Forms

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF

**ONS**
**NG-SCIENCE, INC.**
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 725980.01009
PROJECT Seneca Quarterly GW Sampling '96
CONTACT M. Deschenau

LABORATORY Aquatec Lab.
ADDRESS Colchester, VT.
CONTACT Polly Malik

| NO. | LABORATORY SAMPLE NO. | SAMPLING DATE | SAMPLING TIME | SAMPLE DEPTH | SAMPLE MATRIX | ANALYSES VOA | SVOC | METALS | PEST/PCB | CN | HERB | TPH | | | | NO. OF CONTAINERS | COMMENT (Special instructions, ca |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3-15-96 | 1000 | | GROUND WATER | 1 | | | | | | | | | | 3 | |
| | | 3-15-96 | 1100 | | | 1 | | | | | | | | | | 3 | |
| | | 3-15-96 | 1345 | | | 1 | | | | | | | | | | 3 | |

Relinquished by
Sign
Print Patterson
Firm WS
Date 3/15 Time 16:00

Received by FedEx
Sign
Print 965159206 4
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

Time

Samples tampered with? ☐ No ☐ Yes
If yes, see in remarks.

| | VOA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VOA Vial | ✓ | | | | | | | | | | |
| Glass Bottle | | | | | | | | | | | |
| Plastic Bottle | | | | | | | | | | | |
| Preservative | H/C | | | | | | | | | | |
| Container Volume | 40ml | | | | | | | | | | |

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with $HNO_3$
E - Acidified with $H_2SO_4$
F - NaOH + Ascorbic
G - Other

REMARKS: (Sampl
nonstandard sample

Cooler #: 14 E-6

White - return with data Yellow - lab copy Pink - Sampler copy

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1


...ONS
...NG-SCIENCE, INC.
Phone: 617-859-2000
Fax: 617-859-2043


JOB NO. 725 98 01009
PROJECT SEAD-1st ½, Monitoring '96
CONTACT M. Dutchwood

LABORATORY Aquatec
ADDRESS Colchester, VT
CONTACT Polly Molnik

| ...D. | LABORATORY SAMPLE NO. | SAMPLING DATE | SAMPLING TIME | SAMPLE DEPTH | SAMPLE MATRIX | ANALYSES: VOA 524 | SVOC | METALS | PEST/PCB | CN | HERB | TPH | | | | NO. OF CONTAINERS | COMMENTS (Special instructions, ca... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5 6 96 | 0940 | N/A | wtr | 3 | | | | | | | | | | 3 | Wood 527. |
| | | | 0945 | | | 3 | | | | | | | | | | 3 | |
| | | | 0950 | | | 3 | | | | | | | | | | 3 | |
| | | | 0930 | | | 3 | | | | | | | | | | 3 | |
| R | | | 0900 | | | 3 | | | | | | | | | | 3 | |
| | | | 1400 | | | 3 | | | | | | | | | | 3 | |
| MS | | | 1400 | | | 3 | | | | | | | | | | 3 | |
| MSD | | | 1400 | | | 3 | | | | | | | | | | 3 | |
| | | | 1400 | | | 3 | | | | | | | | | | 3 | |
| | | | 1100 | | | 3 | | | | | | | | | | 3 | |
| | | | 1200 | | | 3 | | | | | | | | | | 3 | |
| | | KRS | | | | | | | | | | | | | | | KRS |

Relinquished by
Sign: [signature]
Print: Smith
Firm: ES
Date: 96 Time: 1500

Received by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

Time

Samples tampered with? ☐ No ☐ Yes
... in remarks.

| | |
|---|---|
| VOA Vial | X |
| Glass Bottle | |
| Plastic Bottle | |
| Preservative | A C |
| Container Volume | 40 ml |

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with $HNO_3$
E - Acidified with $H_2SO_4$
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample... nonstandard sample...
Keep cool...

Cooler #:

... White - return with data Yellow - lab copy Pink - Sampler copy

Site Summary Report Volume Y

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

ONS
NG-SCIENCE, INC.
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 725980-01009
PROJECT SEAD - 1st Yrly Monitoring '96
CONTACT M. Dubuisson (617-859-2000

LABORATORY MRD
ADDRESS Omaha, NB
CONTACT Sample Custodian

| O. | LABORATORY SAMPLE NO. | SAMPLING DATE | SAMPLING TIME | SAMPLE DEPTH | SAMPLE MATRIX | ANALYSES VOA | SVOC | METALS | PEST/PCB | CN | HERB | TPH | | | | NO. OF CONTAINERS | COMMENT (Special instructions, ca |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RD | | 5-15-96 | 0830 | N/A | water | 2 | | | | | | | | | | 2 | Method 8260 |
| D-R | | ↓ | 0900 | ↓ | ↓ | 3 | | | | | | | | | | 3 | " |
| MRD | | ↓ | 1400 | ↓ | ↓ | 3 | | | | | | | | | | 3 | " |

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S...h
ES
6 Time 1530

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Date Time

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Date Time

Time

mples tampered with? ☐ No ☐ Yes
n in remarks.

| | |
|---|---|
| VOA Vial | X |
| Glass Bottle | |
| Plastic Bottle | |
| Preservative | A C |
| Container Volume | 40 ml |

PRESERVATION KEY: A - Ice; B - Filtered; C - Acidified with HCl; D - Acidified with $HNO_3$; E - Acidified with $H_2SO_4$; F - NaOH + Ascorbic; G - Other

REMARKS: (Sampl nonstandard sample
LIMS # -
Cont
Laura, Hunts
contact: Kevin
Return cooler t
Parsons Engineer
- 101 Huntington
Boston, MA 02

Cooler #:

1 White - return with data Yellow - lab copy Pink - Sampler copy

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

SONS
ING-SCIENCE, INC.
Phone: 617-859-2000
99 Fax: 617-859-2043

JOB NO. 225980-01009
PROJECT SEAD-1st Quarterly Monitoring '96
CONTACT M. Duchesneau

LABORATORY Aquatec
ADDRESS Colchester, VT
CONTACT Polly Malik

| NO. | LABORATORY SAMPLE NO. | SAMPLING DATE | SAMPLING TIME | SAMPLE DEPTH | SAMPLE MATRIX | ANALYSES VOA | SVOC | METALS | PEST/PCB | CN | HERB | TPH | | | NO. OF CONTAINERS | COMMEN (Special Instructions, |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | | 3-17-96 | 1120 | N/A | Water | 1 | | | | | | | | | 3 | Method S |
| 60 | | 3-17-96 | 1130 | | | 1 | | | | | | | | | 3 | |
| 18 | | 3-17-96 | 1410 | | | 1 | | | | | | | | | 3 | |
| 45 | | 3-17-96 | 1445 | | | 1 | | | | | | | | | 3 | |
| 11 | | 3-18-96 | 1110 | | | 1 | | | | | | | | | 3 | |

Relinquished by
F. Harvey
ES
Time 1130

Received by
Sign
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Firm
Date Time

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Time

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Sign
Print
Firm
Date Time

amples tampered with? ☐ No ☐ Yes
ain in remarks.

| | |
|---|---|
| VOA Vial | ✓ |
| Glass Bottle | |
| Plastic Bottle | |
| Preservative | A C |
| Container Volume | 40 ml |

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with $HNO_3$
E - Acidified with $H_2SO_4$
F - NaOH + Ascorbic
G - Other

REMARKS: (Sam
nonstandard samp

Cooler #:

DC1 White - return with data Yellow - lab copy Pink - Sampler copy

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

ONS
IG-SCIENCE, INC.
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 22980-01009
PROJECT 1st Quarterly Monitoring '96
CONTACT M. Dunsmuir

LABORATORY NRD
ADDRESS 406 So. 15th St Omaha, N
CONTACT Laura Penfield

| . | LABORATORY SAMPLE NO. | SAMPLING DATE | SAMPLING TIME | SAMPLE DEPTH | SAMPLE MATRIX | ANALYSES VOA | SVOC | METALS | PEST/PCB | CN | HERB | TPH | TOX | TOC | Sp Cond & pH | NO. OF CONTAINERS | COMMENTS (Special instructions, ca |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MRD | — | 3-19-96 | 0800 | — | Water | 1 | | | | | | | | | | 2 | |
| -R | — | 3-19-96 | 0830 | — | Water | | | 1 | | 1 | | | 1 | 1 | 1 | 6 | |
| D | — | 3-19-96 | 1640 | — | Water | | | 1 | | 1 | | | 1 | 1 | 1 | 6 | |

elinquished by
F. Harvey
ES
96 Time 0845

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Date Time

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Sign
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Time Date Time

| | VOA | SVOC | METALS | PEST/PCB | CN | HERB | TPH | TOX | TOC | Sp Cond & pH |
|---|---|---|---|---|---|---|---|---|---|---|
| VOA Vial | ✓ | | | | | | | | ✓ | |
| Glass Bottle | | | | | | | | ✓ | | |
| Plastic Bottle | | | ✓ | | ✓ | | | | | ✓ |
| Preservative | A C | | A D | | A F | | | A | A E | A |
| Container Volume | 40 ml | | 1L | | 1L | | | 250 ml | 40 ml | 1L |

PRESERVATION KEY: A - Ice; B - Filtered; C - Acidified with HCl; D - Acidified with $HNO_3$; E - Acidified with $H_2SO_4$; F - NaOH + Ascorbic; G - Other

REMARKS: (Sample nonstandard sample
LIMS #

Cooler #: FS-1

ples tampered with? ☐ No ☐ Yes
in remarks.

White - return with data Yellow - lab copy Pink - Sampler copy

# APPENDIX B

1. Sample Delivery Group No. 57313

   A. Volatile Organics QA/QC Data

2. Sample Delivery Group No. 57342

   A. Volatile Organic Analysis Results

3. Sample Delivery Group No. 57371

   A. Volatile Organic Analysis Results

# SAMPLE DATA SUMMARY PACKAGE

**LAB CODE: INCHVT**

**CONTRACT NO.:** 93206

**CASE NO.:** OBASH

**SDG NO.:** 57313

Inchcape Testing Services

## 1. Sample Delivery Group No. 57313

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN-S

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294329

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294329V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN-S

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294329

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294329V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BN-S

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294329

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294329V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 12. | | | | | |
| 13. | | | | | |
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| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

FH-D

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294330

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294330V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FH-D

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294330

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294330V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2 Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FH-D

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294330

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294330V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FH-S

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294331

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294331V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FH-S

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294331

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294331V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FH-S

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294331

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294331V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-30

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294229

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294229V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.6 | |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-30

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294229

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294229V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-30

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294229

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294229V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-36

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36R

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294333

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294333V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 4 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36R

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294333

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294333V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorcbenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-36R

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294333

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294333V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-40

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294230

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294230V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-40

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294230

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294230V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-40

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294230

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294230V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-45

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294380

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294380V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-45

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294380

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294380V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-45

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294380

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294380V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-47

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294334

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294334V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.4 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-47

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294334

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294334V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-47

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294334

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294334V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column.CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-48

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294381

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294381V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-48

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294381

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294381V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-48

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294381

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294381V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-56

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294335

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294335V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.8 | |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.4 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-56

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294335

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294335V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-56

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: ORASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294335

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294335V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-59

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294382

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294382V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-59

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294382

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294382V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column.CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-59

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294382

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294382V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-60

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294383

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294383V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-60

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294383

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294383V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-60

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294383

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294383V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-336

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294336

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294336V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

CC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.4 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-336

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294336

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294336V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-336

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294336

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294336V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-11

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294384

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294384V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PT-11

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294384

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294384V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PT-11

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294384

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294384V.D

Level: (low/med) LOW Date Received: 03/19/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 75-45-6 | Methane, chlorodifluoro- | 2.305 | 45 | NJ |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PT-19

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294231

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294231V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PT-19

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294231

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294231V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PT-19

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294231

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294231V.D

Level: (low/med) LOW Date Received: 03/16/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-3-16

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No : SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294337

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294337V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-3-16

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294337

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294337V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-3-16

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294337

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294337V.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKI8

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBAS[illegible] SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VBLKI8

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY002AV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKI8

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (scil/water) WATER Lab Sample ID: VBLKI8

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY002AV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKI8

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VBLKI8

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY002AV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ1

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002BV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ1

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No. SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002BV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKJ1

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002BV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001AQV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | |
| 74-87-3 | Chloromethane | 1 | |
| 75-01-4 | Vinyl Chloride | 1 | |
| 74-83-9 | Bromomethane | 1 | |
| 75-00-3 | Chloroethane | 2 | |
| 75-69-4 | Trichlorofluoromethane | 1 | |
| 67-64-1 | Acetone | 6 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | |
| 75-15-0 | Carbon Disulfide | 1 | |
| 75-09-2 | Methylene Chloride | 1 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | |
| 78-93-3 | 2-Butanone | 5 | |
| 590-20-7 | 2,2-Dichloropropane | 1 | |
| 67-66-3 | Chloroform | 1 | |
| 74-97-5 | Bromochloromethane | 1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | |
| 563-58-6 | 1,1-Dichloropropene | 1 | |
| 56-23-5 | Carbon Tetrachloride | 1 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | |
| 71-43-2 | Benzene | 1 | |
| 79-01-6 | Trichloroethene | 1 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | |
| 75-27-4 | Bromodichloromethane | 1 | |
| 74-95-3 | Dibromomethane | 1 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 6 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | |
| 108-88-3 | Toluene | 1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 1 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001AQV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/25/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | |
| 124-48-1 | Dibromochloromethane | 1 | |
| 106-93-4 | 1,2-Dibromoethane | 1 | |
| 108-90-7 | Chlorobenzene | 1 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 3 | |
| 100-42-5 | Styrene | 1 | |
| 75-25-2 | Bromoform | 1 | |
| 98-82-8 | Isopropylbenzene | 1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 1 | |
| 108-86-1 | Bromobenzene | 1 | |
| 103-65-1 | n-Propylbenzene | 1 | |
| 95-49-8 | 2-Chlorotoluene | 1 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1 | |
| 106-43-4 | 4-Chlorotoluene | 1 | |
| 98-06-6 | tert-Butylbenzene | 1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1 | |
| 135-98-8 | sec-Butylbenzene | 1 | |
| 99-87-6 | p-Isopropyltoluene | 1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | |
| 104-51-8 | n-Butylbenzene | 1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | |
| 87-68-3 | Hexachlorobutadiene | 1 | |
| 91-20-3 | Naphthalene | 1 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYB

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYB

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001BQV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.9 | |
| 74-87-3 | Chloromethane | 1 | |
| 75-01-4 | Vinyl Chloride | 0.9 | |
| 74-83-9 | Bromomethane | 1 | |
| 75-00-3 | Chloroethane | 1 | |
| 75-69-4 | Trichlorofluoromethane | 0.9 | |
| 67-64-1 | Acetone | 6 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.9 | |
| 75-15-0 | Carbon Disulfide | 1 | |
| 75-09-2 | Methylene Chloride | 1 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | |
| 78-93-3 | 2-Butanone | 5 | |
| 590-20-7 | 2,2-Dichloropropane | 1 | |
| 67-66-3 | Chloroform | 1 | |
| 74-97-5 | Bromochloromethane | 1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | |
| 563-58-6 | 1,1-Dichloropropene | 1 | |
| 56-23-5 | Carbon Tetrachloride | 1 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | |
| 71-43-2 | Benzene | 1 | |
| 79-01-6 | Trichloroethene | 1 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | |
| 75-27-4 | Bromodichloromethane | 1 | |
| 74-95-3 | Dibromomethane | 1 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | |
| 108-88-3 | Toluene | 1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 1 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYB

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYB

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001BQV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | |
| 124-48-1 | Dibromochloromethane | 1 | |
| 106-93-4 | 1,2-Dibromoethane | 1 | |
| 108-90-7 | Chlorobenzene | 1 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 3 | |
| 100-42-5 | Styrene | 1 | |
| 75-25-2 | Bromoform | 1 | |
| 98-82-8 | Isopropylbenzene | 1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 1 | |
| 108-86-1 | Bromobenzene | 1 | |
| 103-65-1 | n-Propylbenzene | 1 | |
| 95-49-8 | 2-Chlorotoluene | 1 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1 | |
| 106-43-4 | 4-Chlorotoluene | 1 | |
| 98-06-6 | tert-Butylbenzene | 1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1 | |
| 135-98-8 | sec-Butylbenzene | 1 | |
| 99-87-6 | p-Isopropyltoluene | 1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | |
| 104-51-8 | n-Butylbenzene | 1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | |
| 87-68-3 | Hexachlorobutadiene | 1 | |
| 91-20-3 | Naphthalene | 1 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005A

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY003AQV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.6 | |
| 74-87-3 | Chloromethane | 0.6 | |
| 75-01-4 | Vinyl Chloride | 0.5 | |
| 74-83-9 | Bromomethane | 0.5 | |
| 75-00-3 | Chloroethane | 0.5 | |
| 75-69-4 | Trichlorofluoromethane | 0.5 | |
| 67-64-1 | Acetone | 3 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | |
| 75-15-0 | Carbon Disulfide | 0.5 | |
| 75-09-2 | Methylene Chloride | 0.5 | |
| 75-34-3 | 1,1-Dichloroethane | 0.6 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.6 | |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.6 | |
| 67-66-3 | Chloroform | 0.6 | |
| 74-97-5 | Bromochloromethane | 0.6 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | |
| 56-23-5 | Carbon Tetrachloride | 0.5 | |
| 107-06-2 | 1,2-Dichloroethane | 0.6 | |
| 71-43-2 | Benzene | 0.6 | |
| 79-01-6 | Trichloroethene | 0.6 | |
| 78-87-5 | 1,2-Dichloropropane | 0.6 | |
| 75-27-4 | Bromodichloromethane | 0.6 | |
| 74-95-3 | Dibromomethane | 0.5 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 2 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | |
| 108-88-3 | Toluene | 0.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | |
| 591-78-6 | 2-Hexanone | 2 | J |
| 142-28-9 | 1,3-Dichloropropane | 0.6 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005A

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY003AQV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | |
| 124-48-1 | Dibromochloromethane | 0.4 | J |
| 106-93-4 | 1,2-Dibromoethane | 0.6 | |
| 108-90-7 | Chlorobenzene | 0.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | |
| 100-41-4 | Ethylbenzene | 0.5 | |
| 1330-20-7 | Xylene (total) | 2 | |
| 100-42-5 | Styrene | 0.5 | |
| 75-25-2 | Bromoform | 0.4 | J |
| 98-82-8 | Isopropylbenzene | 0.6 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | |
| 96-18-4 | 1,2,3-Trichloropropane | 0.6 | |
| 108-86-1 | Bromobenzene | 0.5 | |
| 103-65-1 | n-Propylbenzene | 0.5 | |
| 95-49-8 | 2-Chlorotoluene | 0.5 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | |
| 106-43-4 | 4-Chlorotoluene | 0.5 | |
| 98-06-6 | tert-Butylbenzene | 0.6 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.6 | |
| 135-98-8 | sec-Butylbenzene | 0.6 | |
| 99-87-6 | p-Isopropyltoluene | 0.6 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.6 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.6 | |
| 104-51-8 | n-Butylbenzene | 0.7 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.6 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.6 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.8 | |
| 87-68-3 | Hexachlorobutadiene | 0.9 | |
| 91-20-3 | Naphthalene | 0.8 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.9 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VSTD0005B

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005B

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001BV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | |
| 74-87-3 | Chloromethane | 0.6 | |
| 75-01-4 | Vinyl Chloride | 0.5 | |
| 74-83-9 | Bromomethane | 0.5 | |
| 75-00-3 | Chloroethane | 0.5 | |
| 75-69-4 | Trichlorofluoromethane | 0.5 | |
| 67-64-1 | Acetone | 6 | |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | |
| 75-15-0 | Carbon Disulfide | 0.5 | |
| 75-09-2 | Methylene Chloride | 0.5 | |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | |
| 78-93-3 | 2-Butanone | 5 | |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | |
| 67-66-3 | Chloroform | 0.5 | |
| 74-97-5 | Bromochloromethane | 0.4 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | |
| 56-23-5 | Carbon Tetrachloride | 0.5 | |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | |
| 71-43-2 | Benzene | 0.5 | |
| 79-01-6 | Trichloroethene | 0.5 | |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | |
| 75-27-4 | Bromodichloromethane | 0.5 | |
| 74-95-3 | Dibromomethane | 0.4 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | |
| 108-88-3 | Toluene | 0.5 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.4 | J |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005B

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005B

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001BV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | |
| 124-48-1 | Dibromochloromethane | 0.5 | |
| 106-93-4 | 1,2-Dibromoethane | 0.4 | J |
| 108-90-7 | Chlorobenzene | 0.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | |
| 100-41-4 | Ethylbenzene | 0.5 | |
| 1330-20-7 | Xylene (total) | 1 | |
| 100-42-5 | Styrene | 0.4 | J |
| 75-25-2 | Bromoform | 0.4 | J |
| 98-82-8 | Isopropylbenzene | 0.5 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | |
| 108-86-1 | Bromobenzene | 0.4 | J |
| 103-65-1 | n-Propylbenzene | 0.5 | |
| 95-49-8 | 2-Chlorotoluene | 0.5 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | |
| 106-43-4 | 4-Chlorotoluene | 0.4 | J |
| 98-06-6 | tert-Butylbenzene | 0.5 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | |
| 135-98-8 | sec-Butylbenzene | 0.5 | |
| 99-87-6 | p-Isopropyltoluene | 0.5 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | |
| 104-51-8 | n-Butylbenzene | 0.5 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.6 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | |
| 87-68-3 | Hexachlorobutadiene | 0.6 | |
| 91-20-3 | Naphthalene | 0.6 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36MS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332MSV.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | |
| 74-87-3 | Chloromethane | 10 | |
| 75-01-4 | Vinyl Chloride | 10 | |
| 74-83-9 | Bromomethane | 10 | |
| 75-00-3 | Chloroethane | 12 | |
| 75-69-4 | Trichlorofluoromethane | 10 | |
| 67-64-1 | Acetone | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 10 | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | |
| 75-15-0 | Carbon Disulfide | 8 | |
| 75-09-2 | Methylene Chloride | 11 | |
| 75-34-3 | 1,1-Dichloroethane | 10 | |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | |
| 78-93-3 | 2-Butanone | 28 | |
| 590-20-7 | 2,2-Dichloropropane | 9 | |
| 67-66-3 | Chloroform | 10 | |
| 74-97-5 | Bromochloromethane | 11 | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | |
| 563-58-6 | 1,1-Dichloropropene | 10 | |
| 56-23-5 | Carbon Tetrachloride | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 11 | |
| 71-43-2 | Benzene | 10 | |
| 79-01-6 | Trichloroethene | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 10 | |
| 75-27-4 | Bromodichloromethane | 10 | |
| 74-95-3 | Dibromomethane | 11 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 29 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | |
| 108-88-3 | Toluene | 10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | |
| 591-78-6 | 2-Hexanone | 28 | |
| 142-28-9 | 1,3-Dichloropropane | 11 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36MS

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332MSV.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 10 | |
| 124-48-1 | Dibromochloromethane | 9 | |
| 106-93-4 | 1,2-Dibromoethane | 11 | |
| 108-90-7 | Chlorobenzene | 10 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 10 | |
| 100-41-4 | Ethylbenzene | 10 | |
| 1330-20-7 | Xylene (total) | 30 | |
| 100-42-5 | Styrene | 9 | |
| 75-25-2 | Bromoform | 9 | |
| 98-82-8 | Isopropylbenzene | 10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | |
| 96-18-4 | 1,2,3-Trichloropropane | 10 | |
| 108-86-1 | Bromobenzene | 10 | |
| 103-65-1 | n-Propylbenzene | 10 | |
| 95-49-8 | 2-Chlorotoluene | 10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9 | |
| 106-43-4 | 4-Chlorotoluene | 10 | |
| 98-06-6 | tert-Butylbenzene | 10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 9 | |
| 135-98-8 | sec-Butylbenzene | 10 | |
| 99-87-6 | p-Isopropyltoluene | 9 | |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | |
| 104-51-8 | n-Butylbenzene | 9 | |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | |
| 87-68-3 | Hexachlorobutadiene | 8 | |
| 91-20-3 | Naphthalene | 10 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36MSD

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332MD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332MDV.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | |
| 74-87-3 | Chloromethane | 10 | |
| 75-01-4 | Vinyl Chloride | 10 | |
| 74-83-9 | Bromomethane | 10 | |
| 75-00-3 | Chloroethane | 11 | |
| 75-69-4 | Trichlorofluoromethane | 10 | |
| 67-64-1 | Acetone | 23 | |
| 75-35-4 | 1,1-Dichloroethene | 10 | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | |
| 75-15-0 | Carbon Disulfide | 9 | |
| 75-09-2 | Methylene Chloride | 11 | |
| 75-34-3 | 1,1-Dichloroethane | 10 | |
| 156-59-2 | cis-1,2-Dichloroethene | 11 | |
| 78-93-3 | 2-Butanone | 25 | |
| 590-20-7 | 2,2-Dichloropropane | 9 | |
| 67-66-3 | Chloroform | 10 | |
| 74-97-5 | Bromochloromethane | 11 | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | |
| 563-58-6 | 1,1-Dichloropropene | 10 | |
| 56-23-5 | Carbon Tetrachloride | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 11 | |
| 71-43-2 | Benzene | 10 | |
| 79-01-6 | Trichloroethene | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 10 | |
| 75-27-4 | Bromodichloromethane | 10 | |
| 74-95-3 | Dibromomethane | 11 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 26 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | |
| 108-88-3 | Toluene | 11 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | |
| 591-78-6 | 2-Hexanone | 27 | |
| 142-28-9 | 1,3-Dichloropropane | 10 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36MSD

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix: (soil/water) WATER Lab Sample ID: 294332MD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294332MDV.D

Level: (low/med) LOW Date Received: 03/18/96

% Moisture: not dec. _____ Data Analyzed: 03/26/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 10 | |
| 124-48-1 | Dibromochloromethane | 9 | |
| 106-93-4 | 1,2-Dibromoethane | 10 | |
| 108-90-7 | Chlorobenzene | 10 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 10 | |
| 100-41-4 | Ethylbenzene | 9 | |
| 1330-20-7 | Xylene (total) | 29 | |
| 100-42-5 | Styrene | 8 | |
| 75-25-2 | Bromoform | 8 | |
| 98-82-8 | Isopropylbenzene | 9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | |
| 96-18-4 | 1,2,3-Trichloropropane | 10 | |
| 108-86-1 | Bromobenzene | 10 | |
| 103-65-1 | n-Propylbenzene | 9 | |
| 95-49-8 | 2-Chlorotoluene | 10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9 | |
| 106-43-4 | 4-Chlorotoluene | 10 | |
| 98-06-6 | tert-Butylbenzene | 9 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 9 | |
| 135-98-8 | sec-Butylbenzene | 9 | |
| 99-87-6 | p-Isopropyltoluene | 9 | |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | |
| 104-51-8 | n-Butylbenzene | 9 | |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 9 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9 | |
| 87-68-3 | Hexachlorobutadiene | 8 | |
| 91-20-3 | Naphthalene | 9 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9 | |

2A

# WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

| | EPA SAMPLE NO. | SMC1 (DCE) # | SMC2 (BFB) # | SMC3 (DCB) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | LFBLFYA | 112 | 104 | 106 | | 0 |
| 02 | VBLKI8 | 111 | 104 | 103 | | 0 |
| 03 | BN-S | 120 | 106 | 110 | | 0 |
| 04 | FH-D | 118 | 107 | 109 | | 0 |
| 05 | FH-S | 111 | 101 | 105 | | 0 |
| 06 | MW-36 | 111 | 101 | 101 | | 0 |
| 07 | MW-36R | 113 | 101 | 102 | | 0 |
| 08 | MW-47 | 115 | 102 | 101 | | 0 |
| 09 | MW-56 | 112 | 98 | 103 | | 0 |
| 10 | MW-336 | 110 | 102 | 105 | | 0 |
| 11 | TB-3-16 | 112 | 103 | 108 | | 0 |
| 12 | MW-36MS | 114 | 107 | 109 | | 0 |
| 13 | MW-36MSD | 113 | 98 | 102 | | 0 |
| 14 | VSTD0005A | 116 | 106 | 106 | | 0 |
| 15 | LFBLFYB | 92 | 97 | 98 | | 0 |
| 16 | VSTD0005B | 96 | 100 | 99 | | 0 |
| 17 | VBLKJ1 | 99 | 99 | 98 | | 0 |
| 18 | MW-45 | 91 | 94 | 95 | | 0 |
| 19 | MW-48 | 96 | 96 | 98 | | 0 |
| 20 | MW-59 | 92 | 99 | 101 | | 0 |
| 21 | MW-60 | 99 | 96 | 98 | | 0 |
| 22 | PT-11 | 100 | 98 | 99 | | 0 |
| 23 | MW-30 | 99 | 95 | 101 | | 0 |
| 24 | MW-40 | 100 | 97 | 98 | | 0 |
| 25 | PT-19 | 103 | 97 | 95 | | 0 |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

| | QC LIMITS |
|---|---|
| SMC1 (DCE) = 1,2-Dichloroethane-d4 | (83-143) |
| SMC2 (BFB) = Bromofluorobenzene | (86-115) |
| SMC3 (DCB) = 1,2-Dichlorobenzene-d4 | (80-120) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

# WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Matrix Spike - EPA Sample No.: MW-36

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Vinyl Chloride | 10 | 0 | 10 | 100 | 80-120 |
| Carbon Tetrachloride | 10 | 0 | 10 | 100 | 80-120 |
| 1,2-Dichloroethane | 10 | 0 | 11 | 110 | 80-120 |
| Benzene | 10 | 0 | 10 | 100 | 80-120 |
| Trichloroethene | 10 | 0 | 10 | 100 | 80-120 |
| 1,2-Dichloropropane | 10 | 0 | 10 | 100 | 80-120 |
| cis-1,3-Dichloropropene | 10 | 0 | 10 | 100 | 80-120 |
| 1,1,2-Trichloroethane | 10 | 0 | 11 | 110 | 80-120 |
| 2-Hexanone | 25 | 0 | 28 | 112 | 80-120 |
| Tetrachloroethene | 10 | 0 | 10 | 100 | 80-120 |
| 1,2-Dibromoethane | 10 | 0 | 11 | 110 | 80-120 |
| Bromoform | 10 | 0 | 9 | 90 | 80-120 |
| 1,4-Dichlorobenzene | 10 | 0 | 10 | 100 | 80-120 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Vinyl Chloride | 10 | 10 | 100 | 0 | 13 | 80-120 |
| Carbon Tetrachloride | 10 | 10 | 100 | 0 | 13 | 80-120 |
| 1,2-Dichloroethane | 10 | 11 | 110 | 0 | 13 | 80-120 |
| Benzene | 10 | 10 | 100 | 0 | 13 | 80-120 |
| Trichloroethene | 10 | 10 | 100 | 0 | 13 | 80-120 |
| 1,2-Dichloropropane | 10 | 10 | 100 | 0 | 13 | 80-120 |
| cis-1,3-Dichloropropene | 10 | 10 | 100 | 0 | 13 | 80-120 |
| 1,1,2-Trichloroethane | 10 | 10 | 100 | 10 | 13 | 80-120 |
| 2-Hexanone | 25 | 27 | 108 | 4 | 13 | 80-120 |
| Tetrachloroethene | 10 | 10 | 100 | 0 | 13 | 80-120 |
| 1,2-Dibromoethane | 10 | 10 | 100 | 10 | 13 | 80-120 |
| Bromoform | 10 | 8 | 80 | 12 | 13 | 80-120 |
| 1,4-Dichlorobenzene | 10 | 10 | 100 | 0 | 13 | 80-120 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 13 outside limits
Spike Recovery: 0 out of 26 outside limits

COMMENTS: _____

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: LFBLFYA
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: LFBLFYA
Operator: GWG
SampleType: MS
Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 1 | 1 | 109.37 | 60-140 |
| 2 Chloromethane | 1 | 1 | 120.10 | 60-140 |
| 3 Vinyl Chloride | 1 | 1 | 111.38 | 60-140 |
| 4 Bromomethane | 1 | 1 | 131.73 | 60-140 |
| 5 Chloroethane | 1 | 2 | 160.64* | 60-140 |
| 6 Trichlorofluoromet | 1 | 1 | 111.67 | 60-140 |
| 7 1,1-Dichloroethene | 1 | 1 | 112.20 | 60-140 |
| 8 Acetone | 5 | 6 | 127.93 | 60-140 |
| 9 Carbon Disulfide | 1 | 1 | 109.86 | 60-140 |
| 10 Methylene Chloride | 1 | 1 | 123.95 | 60-140 |
| 11 trans-1,2-Dichloro | 1 | 1 | 109.92 | 60-140 |
| 13 1,1-Dichloroethane | 1 | 1 | 114.61 | 60-140 |
| 14 2,2-Dichloropropan | 1 | 1 | 112.80 | 60-140 |
| 15 cis-1,2-Dichloroet | 1 | 1 | 109.21 | 60-140 |
| 16 2-Butanone | 5 | 5 | 101.14 | 60-140 |
| 17 Bromochloromethane | 1 | 1 | 108.36 | 60-140 |
| 19 Chloroform | 1 | 1 | 112.76 | 60-140 |
| 20 1,1,1-Trichloroeth | 1 | 1 | 109.27 | 60-140 |
| 21 Carbon Tetrachlori | 1 | 1 | 108.59 | 60-140 |
| 22 1,1-Dichloropropen | 1 | 1 | 111.18 | 60-140 |
| 24 Benzene | 1 | 1 | 115.03 | 60-140 |
| 25 1,2-Dichloroethane | 1 | 1 | 113.10 | 60-140 |
| 27 Trichloroethene | 1 | 1 | 116.06 | 60-140 |
| 28 1,2-Dichloropropan | 1 | 1 | 114.24 | 60-140 |
| 29 Dibromomethane | 1 | 1 | 104.08 | 60-140 |
| 31 Bromodichlorometha | 1 | 1 | 105.01 | 60-140 |
| 32 cis-1,3-Dichloropr | 1 | 1 | 105.67 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 6 | 112.57 | 60-140 |
| 34 Toluene | 1 | 1 | 115.06 | 60-140 |
| 35 trans-1,3-Dichloro | 1 | 1 | 104.34 | 60-140 |
| 36 1,1,2-Trichloroeth | 1 | 1 | 102.77 | 60-140 |
| 37 Tetrachloroethene | 1 | 1 | 110.05 | 60-140 |
| 38 1,3-Dichloropropan | 1 | 1 | 107.79 | 60-140 |
| 39 2-Hexanone | 5 | 5 | 106.12 | 60-140 |
| 40 Dibromochlorometha | 1 | 1.0 | 99.68 | 60-140 |
| 41 1,2-Dibromoethane | 1 | 1 | 104.70 | 60-140 |

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: LFBLFYA
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: LFBLFYA
Operator: GWG
SampleType: MS
Quant Type: ISTD

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 1 | 1 | 104.67 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 1 | 1 | 101.05 | 60-140 |
| | 45 Ethylbenzene | 1 | 1 | 107.07 | 60-140 |
| | 46 m- & p-Xylene | 2 | 2 | 102.48 | 60-140 |
| | 47 o-Xylene | 1 | 1 | 104.11 | 60-140 |
| M | 48 Xylene (total) | 3 | 3 | 107.15 | 60-140 |
| | 49 Styrene | 1 | 1 | 104.11 | 60-140 |
| | 50 Bromoform | 1 | 1.0 | 97.84 | 60-140 |
| | 51 Isopropylbenzene | 1 | 1 | 106.65 | 60-140 |
| | 53 Bromobenzene | 1 | 1 | 110.41 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 1 | 1 | 109.23 | 60-140 |
| | 55 1,2,3-Trichloropro | 1 | 1 | 107.18 | 60-140 |
| | 56 n-Propylbenzene | 1 | 1 | 107.02 | 60-140 |
| | 57 2-Chlorotoluene | 1 | 1 | 107.38 | 60-140 |
| | 58 4-Chlorotoluene | 1 | 1 | 107.71 | 60-140 |
| | 59 1,3,5-Trimethylben | 1 | 1 | 109.11 | 60-140 |
| | 60 tert-Butylbenzene | 1 | 1 | 110.01 | 60-140 |
| | 61 1,2,4-Trimethylben | 1 | 1 | 110.80 | 60-140 |
| | 62 sec-Butylbenzene | 1 | 1 | 113.37 | 60-140 |
| | 63 1,3-Dichlorobenzen | 1 | 1 | 111.55 | 60-140 |
| | 65 p-Isopropyltoluene | 1 | 1 | 110.88 | 60-140 |
| | 66 1,4-Dichlorobenzen | 1 | 1 | 114.00 | 60-140 |
| | 68 1,2-Dichlorobenzen | 1 | 1 | 114.23 | 60-140 |
| | 69 n-Butylbenzene | 1 | 1 | 117.06 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 1 | 1 | 132.14 | 60-140 |
| | 71 1,2,4-Trichloroben | 1 | 1 | 114.18 | 60-140 |
| | 72 Hexachlorobutadien | 1 | 1 | 122.04 | 60-140 |
| | 73 Naphthalene | 1 | 1 | 105.78 | 60-140 |
| | 74 1,2,3-Trichloroben | 1 | 1 | 111.11 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 112.45 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 103.56 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 105.90 | 80-120 |

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: LFBLFYB
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: LFBLFYB
Operator: CMP
SampleType: MS
Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 1 | 0.9 | 87.74 | 60-140 |
| 2 Chloromethane | 1 | 1 | 101.80 | 60-140 |
| 3 Vinyl Chloride | 1 | 0.9 | 94.34 | 60-140 |
| 4 Bromomethane | 1 | 1 | 114.88 | 60-140 |
| 5 Chloroethane | 1 | 1 | 127.73 | 60-140 |
| 6 Trichlorofluoromet | 1 | 0.9 | 93.90 | 60-140 |
| 7 1,1-Dichloroethene | 1 | 1 | 103.94 | 60-140 |
| 8 Acetone | 5 | 6 | 118.92 | 60-140 |
| 9 Carbon Disulfide | 1 | 1 | 105.89 | 60-140 |
| 10 Methylene Chloride | 1 | 1 | 107.11 | 60-140 |
| 11 trans-1,2-Dichloro | 1 | 0.9 | 94.59 | 60-140 |
| 13 1,1-Dichloroethane | 1 | 1 | 107.45 | 60-140 |
| 14 2,2-Dichloropropan | 1 | 1 | 106.74 | 60-140 |
| 15 cis-1,2-Dichloroet | 1 | 1 | 103.17 | 60-140 |
| 16 2-Butanone | 5 | 5 | 101.34 | 60-140 |
| 17 Bromochloromethane | 1 | 1 | 100.54 | 60-140 |
| 19 Chloroform | 1 | 1 | 105.46 | 60-140 |
| 20 1,1,1-Trichloroeth | 1 | 1 | 100.56 | 60-140 |
| 21 Carbon Tetrachlori | 1 | 1.0 | 98.21 | 60-140 |
| 22 1,1-Dichloropropen | 1 | 1 | 101.71 | 60-140 |
| 24 Benzene | 1 | 1 | 104.70 | 60-140 |
| 25 1,2-Dichloroethane | 1 | 1 | 105.34 | 60-140 |
| 27 Trichloroethene | 1 | 1 | 110.67 | 60-140 |
| 28 1,2-Dichloropropan | 1 | 1 | 105.34 | 60-140 |
| 29 Dibromomethane | 1 | 1 | 105.29 | 60-140 |
| 31 Bromodichlorometha | 1 | 1 | 103.29 | 60-140 |
| 32 cis-1,3-Dichloropr | 1 | 1 | 103.24 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 5 | 95.14 | 60-140 |
| 34 Toluene | 1 | 1 | 103.10 | 60-140 |
| 35 trans-1,3-Dichloro | 1 | 1 | 100.90 | 60-140 |
| 36 1,1,2-Trichloroeth | 1 | 1 | 104.00 | 60-140 |
| 37 Tetrachloroethene | 1 | 1 | 100.68 | 60-140 |
| 38 1,3-Dichloropropan | 1 | 1 | 106.01 | 60-140 |
| 39 2-Hexanone | 5 | 5 | 104.98 | 60-140 |
| 40 Dibromochlorometha | 1 | 1 | 102.39 | 60-140 |
| 41 1,2-Dibromoethane | 1 | 1 | 103.75 | 60-140 |

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: LFBLFYB
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: LFBLFYB
Operator: CMP
SampleType: MS
Quant Type: ISTD

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 1 | 1 | 106.23 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 1 | 1 | 101.95 | 60-140 |
| | 45 Ethylbenzene | 1 | 1 | 106.59 | 60-140 |
| | 46 m- & p-Xylene | 2 | 2 | 100.20 | 60-140 |
| | 47 o-Xylene | 1 | 1.0 | 99.11 | 60-140 |
| M | 48 Xylene (total) | 3 | 3 | 102.53 | 60-140 |
| | 49 Styrene | 1 | 1 | 105.39 | 60-140 |
| | 50 Bromoform | 1 | 1 | 101.26 | 60-140 |
| | 51 Isopropylbenzene | 1 | 1 | 104.81 | 60-140 |
| | 53 Bromobenzene | 1 | 1 | 100.03 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 1 | 1 | 111.35 | 60-140 |
| | 55 1,2,3-Trichloropro | 1 | 1 | 108.03 | 60-140 |
| | 56 n-Propylbenzene | 1 | 1 | 103.70 | 60-140 |
| | 57 2-Chlorotoluene | 1 | 1 | 103.82 | 60-140 |
| | 58 4-Chlorotoluene | 1 | 1 | 103.23 | 60-140 |
| | 59 1,3,5-Trimethylben | 1 | 1 | 104.85 | 60-140 |
| | 60 tert-Butylbenzene | 1 | 1 | 105.42 | 60-140 |
| | 61 1,2,4-Trimethylben | 1 | 1 | 107.34 | 60-140 |
| | 62 sec-Butylbenzene | 1 | 1 | 106.50 | 60-140 |
| | 63 1,3-Dichlorobenzen | 1 | 1 | 103.64 | 60-140 |
| | 65 p-Isopropyltoluene | 1 | 1 | 110.61 | 60-140 |
| | 66 1,4-Dichlorobenzen | 1 | 1 | 107.79 | 60-140 |
| | 68 1,2-Dichlorobenzen | 1 | 1 | 110.02 | 60-140 |
| | 69 n-Butylbenzene | 1 | 1 | 109.71 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 1 | 1 | 106.83 | 60-140 |
| | 71 1,2,4-Trichloroben | 1 | 1 | 109.81 | 60-140 |
| | 72 Hexachlorobutadien | 1 | 1 | 113.85 | 60-140 |
| | 73 Naphthalene | 1 | 1 | 117.12 | 60-140 |
| | 74 1,2,3-Trichloroben | 1 | 1 | 114.75 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 92.01 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 97.32 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 97.80 | 80-120 |

Lachcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: VSTD0005
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: VSTD0005A
Operator: GWG
SampleType: MS
Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 0.5 | 0.6 | 110.57 | 60-140 |
| 2 Chloromethane | 0.5 | 0.6 | 119.04 | 60-140 |
| 3 Vinyl Chloride | 0.5 | 0.5 | 106.26 | 60-140 |
| 4 Bromomethane | 0.5 | 0.5 | 107.43 | 60-140 |
| 5 Chloroethane | 0.5 | 0.5 | 107.48 | 60-140 |
| 6 Trichlorofluoromet | 0.5 | 0.5 | 107.24 | 60-140 |
| 7 1,1-Dichloroethene | 0.5 | 0.6 | 116.55 | 60-140 |
| 8 Acetone | 5 | 3 | 61.69 | 60-140 |
| 9 Carbon Disulfide | 0.5 | 0.5 | 109.91 | 60-140 |
| 10 Methylene Chloride | 0.5 | 0.5 | 109.75 | 60-140 |
| 11 trans-1,2-Dichloro | 0.5 | 0.5 | 109.63 | 60-140 |
| 13 1,1-Dichloroethane | 0.5 | 0.6 | 123.34 | 60-140 |
| 14 2,2-Dichloropropan | 0.5 | 0.6 | 131.02 | 60-140 |
| 15 cis-1,2-Dichloroet | 0.5 | 0.6 | 120.18 | 60-140 |
| 16 2-Butanone | 5 | 0.0 | * | 60-140 |
| 17 Bromochloromethane | 0.5 | 0.6 | 113.78 | 60-140 |
| 19 Chloroform | 0.5 | 0.6 | 110.29 | 60-140 |
| 20 1,1,1-Trichloroeth | 0.5 | 0.5 | 106.35 | 60-140 |
| 21 Carbon Tetrachlori | 0.5 | 0.5 | 98.29 | 60-140 |
| 22 1,1-Dichloropropen | 0.5 | 0.5 | 104.46 | 60-140 |
| 24 Benzene | 0.5 | 0.6 | 116.66 | 60-140 |
| 25 1,2-Dichloroethane | 0.5 | 0.6 | 112.40 | 60-140 |
| 27 Trichloroethene | 0.5 | 0.6 | 112.93 | 60-140 |
| 28 1,2-Dichloropropan | 0.5 | 0.6 | 112.55 | 60-140 |
| 29 Dibromomethane | 0.5 | 0.5 | 108.29 | 60-140 |
| 31 Bromodichlorometha | 0.5 | 0.6 | 110.40 | 60-140 |
| 32 cis-1,3-Dichloropr | 0.5 | 0.5 | 101.18 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 2 | 37.50* | 60-140 |
| 34 Toluene | 0.5 | 0.6 | 118.82 | 60-140 |
| 35 trans-1,3-Dichloro | 0.5 | 0.5 | 106.13 | 60-140 |
| 36 1,1,2-Trichloroeth | 0.5 | 0.5 | 105.10 | 60-140 |
| 37 Tetrachloroethene | 0.5 | 0.5 | 109.25 | 60-140 |
| 38 1,3-Dichloropropan | 0.5 | 0.6 | 115.16 | 60-140 |
| 39 2-Hexanone | 5 | 2 | 38.43* | 60-140 |
| 40 Dibromochlorometha | 0.5 | 0.4 | 91.77 | 60-140 |
| 41 1,2-Dibromoethane | 0.5 | 0.6 | 110.12 | 60-140 |

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: VSTD0005
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: VSTD0005A
Operator: GWG
SampleType: MS
Quant Type: ISTD

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 0.5 | 0.5 | 106.82 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 0.5 | 0.5 | 99.24 | 60-140 |
| | 45 Ethylbenzene | 0.5 | 0.5 | 102.83 | 60-140 |
| | 46 m- & p-Xylene | 1 | 1 | 105.78 | 60-140 |
| | 47 o-Xylene | 0.5 | 0.5 | 109.17 | 60-140 |
| M | 48 Xylene (total) | 2 | 2 | 111.17 | 60-140 |
| | 49 Styrene | 0.5 | 0.5 | 102.85 | 60-140 |
| | 50 Bromoform | 0.5 | 0.4 | 90.53 | 60-140 |
| | 51 Isopropylbenzene | 0.5 | 0.6 | 110.42 | 60-140 |
| | 53 Bromobenzene | 0.5 | 0.5 | 104.93 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 0.5 | 0.5 | 107.37 | 60-140 |
| | 55 1,2,3-Trichloropro | 0.5 | 0.6 | 111.81 | 60-140 |
| | 56 n-Propylbenzene | 0.5 | 0.5 | 104.82 | 60-140 |
| | 57 2-Chlorotoluene | 0.5 | 0.5 | 104.45 | 60-140 |
| | 58 4-Chlorotoluene | 0.5 | 0.5 | 107.22 | 60-140 |
| | 59 1,3,5-Trimethylben | 0.5 | 0.5 | 108.72 | 60-140 |
| | 60 tert-Butylbenzene | 0.5 | 0.6 | 116.04 | 60-140 |
| | 61 1,2,4-Trimethylben | 0.5 | 0.6 | 118.19 | 60-140 |
| | 62 sec-Butylbenzene | 0.5 | 0.6 | 119.70 | 60-140 |
| | 63 1,3-Dichlorobenzen | 0.5 | 0.6 | 115.75 | 60-140 |
| | 65 p-Isopropyltoluene | 0.5 | 0.6 | 121.32 | 60-140 |
| | 66 1,4-Dichlorobenzen | 0.5 | 0.6 | 128.94 | 60-140 |
| | 68 1,2-Dichlorobenzen | 0.5 | 0.6 | 125.66 | 60-140 |
| | 69 n-Butylbenzene | 0.5 | 0.7 | 132.13 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 0.5 | 0.6 | 129.87 | 60-140 |
| | 71 1,2,4-Trichloroben | 0.5 | 0.8 | 152.81* | 60-140 |
| | 72 Hexachlorobutadien | 0.5 | 0.9 | 183.61* | 60-140 |
| | 73 Naphthalene | 0.5 | 0.8 | 164.73* | 60-140 |
| | 74 1,2,3-Trichloroben | 0.5 | 0.9 | 182.53* | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 116.38 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 106.20 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 105.87 | 90-120 |

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: VSTD0005B
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: VSTD0005B
Operator: CMP
SampleType: MS
Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 0.5 | 0.5 | 98.16 | 60-140 |
| 2 Chloromethane | 0.5 | 0.6 | 113.53 | 60-140 |
| 3 Vinyl Chloride | 0.5 | 0.5 | 102.17 | 60-140 |
| 4 Bromomethane | 0.5 | 0.5 | 107.52 | 60-140 |
| 5 Chloroethane | 0.5 | 0.5 | 107.67 | 60-140 |
| 6 Trichlorofluoromet | 0.5 | 0.5 | 98.80 | 60-140 |
| 7 1,1-Dichloroethene | 0.5 | 0.5 | 95.08 | 60-140 |
| 8 Acetone | 5 | 6 | 119.99 | 60-140 |
| 9 Carbon Disulfide | 0.5 | 0.5 | 100.91 | 60-140 |
| 10 Methylene Chloride | 0.5 | 0.5 | 107.00 | 60-140 |
| 11 trans-1,2-Dichloro | 0.5 | 0.5 | 98.89 | 60-140 |
| 13 1,1-Dichloroethane | 0.5 | 0.5 | 107.09 | 60-140 |
| 14 2,2-Dichloropropan | 0.5 | 0.5 | 96.98 | 60-140 |
| 15 cis-1,2-Dichloroet | 0.5 | 0.5 | 93.51 | 60-140 |
| 16 2-Butanone | 5 | 5 | 97.92 | 60-140 |
| 17 Bromochloromethane | 0.5 | 0.4 | 85.55 | 60-140 |
| 19 Chloroform | 0.5 | 0.5 | 99.17 | 60-140 |
| 20 1,1,1-Trichloroeth | 0.5 | 0.5 | 96.15 | 60-140 |
| 21 Carbon Tetrachlori | 0.5 | 0.5 | 92.06 | 60-140 |
| 22 1,1-Dichloropropen | 0.5 | 0.5 | 96.52 | 60-140 |
| 24 Benzene | 0.5 | 0.5 | 107.27 | 60-140 |
| 25 1,2-Dichloroethane | 0.5 | 0.5 | 97.00 | 60-140 |
| 27 Trichloroethene | 0.5 | 0.5 | 95.52 | 60-140 |
| 28 1,2-Dichloropropan | 0.5 | 0.5 | 107.68 | 60-140 |
| 29 Dibromomethane | 0.5 | 0.4 | 87.26 | 60-140 |
| 31 Bromodichlorometha | 0.5 | 0.5 | 93.18 | 60-140 |
| 32 cis-1,3-Dichloropr | 0.5 | 0.5 | 95.41 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 5 | 103.47 | 60-140 |
| 34 Toluene | 0.5 | 0.5 | 103.65 | 60-140 |
| 35 trans-1,3-Dichloro | 0.5 | 0.4 | 88.12 | 60-140 |
| 36 1,1,2-Trichloroeth | 0.5 | 0.5 | 102.84 | 60-140 |
| 37 Tetrachloroethene | 0.5 | 0.5 | 96.68 | 60-140 |
| 38 1,3-Dichloropropan | 0.5 | 0.5 | 98.36 | 60-140 |
| 39 2-Hexanone | 5 | 5 | 101.67 | 60-140 |
| 40 Dibromochlorometha | 0.5 | 0.5 | 94.23 | 60-140 |
| 41 1,2-Dibromoethane | 0.5 | 0.4 | 91.57 | 60-140 |

Inchcape Environmental

LFB RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: VSTD0005B
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk

Client SDG: 57313
Fraction: VOA
Client Smp ID: VSTD0005B
Operator: CMP
SampleType: MS
Quant Type: ISTD

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 0.5 | 0.5 | 100.92 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 0.5 | 0.5 | 100.98 | 60-140 |
| | 45 Ethylbenzene | 0.5 | 0.5 | 98.23 | 60-140 |
| | 46 m- & p-Xylene | 1 | 1.0 | 95.39 | 60-140 |
| | 47 o-Xylene | 0.5 | 0.5 | 93.65 | 60-140 |
| M | 48 Xylene (total) | 2 | 1 | 97.37 | 60-140 |
| | 49 Styrene | 0.5 | 0.4 | 91.60 | 60-140 |
| | 50 Bromoform | 0.5 | 0.4 | 89.30 | 60-140 |
| | 51 Isopropylbenzene | 0.5 | 0.5 | 100.35 | 60-140 |
| | 53 Bromobenzene | 0.5 | 0.4 | 88.53 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 0.5 | 0.5 | 99.60 | 60-140 |
| | 55 1,2,3-Trichloropro | 0.5 | 0.5 | 102.01 | 60-140 |
| | 56 n-Propylbenzene | 0.5 | 0.5 | 96.79 | 60-140 |
| | 57 2-Chlorotoluene | 0.5 | 0.5 | 92.38 | 60-140 |
| | 58 4-Chlorotoluene | 0.5 | 0.4 | 91.77 | 60-140 |
| | 59 1,3,5-Trimethylben | 0.5 | 0.5 | 96.96 | 60-140 |
| | 60 tert-Butylbenzene | 0.5 | 0.5 | 102.53 | 60-140 |
| | 61 1,2,4-Trimethylben | 0.5 | 0.5 | 99.75 | 60-140 |
| | 62 sec-Butylbenzene | 0.5 | 0.5 | 100.00 | 60-140 |
| | 63 1,3-Dichlorobenzen | 0.5 | 0.5 | 100.76 | 60-140 |
| | 65 p-Isopropyltoluene | 0.5 | 0.5 | 100.11 | 60-140 |
| | 66 1,4-Dichlorobenzen | 0.5 | 0.5 | 104.36 | 60-140 |
| | 68 1,2-Dichlorobenzen | 0.5 | 0.5 | 100.50 | 60-140 |
| | 69 n-Butylbenzene | 0.5 | 0.5 | 106.59 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 0.5 | 0.6 | 116.42 | 60-140 |
| | 71 1,2,4-Trichloroben | 0.5 | 0.5 | 104.79 | 60-140 |
| | 72 Hexachlorobutadien | 0.5 | 0.6 | 112.34 | 60-140 |
| | 73 Naphthalene | 0.5 | 0.6 | 115.43 | 60-140 |
| | 74 1,2,3-Trichloroben | 0.5 | 0.5 | 107.27 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 96.45 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 100.33 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 98.97 | 80-120 |

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKI8

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Lab File ID: LFY002AV.D Lab Sample ID: VBLKI8

Date Analyzed: 03/25/96 Time Analyzed: 1923

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | LFBLFYA | LFBLFYA | LFY001AQV.D | 1845 |
| 02 | BN-S | 294329 | L294329V.D | 2004 |
| 03 | FH-D | 294330 | L294330V.D | 2035 |
| 04 | FH-S | 294331 | L294331V.D | 2109 |
| 05 | MW-36 | 294332 | L294332V.D | 2142 |
| 06 | MW-36R | 294333 | L294333V.D | 2216 |
| 07 | MW-47 | 294334 | L294334V.D | 2250 |
| 08 | MW-56 | 294335 | L294335V.D | 2324 |
| 09 | MW-336 | 294336 | L294336V.D | 2358 |
| 10 | TB-3-16 | 294337 | L294337V.D | 0032 |
| 11 | MW-36MS | 294332MS | L294332MSV.D | 0106 |
| 12 | MW-36MSD | 294332MD | L294332MDV.D | 0139 |
| 13 | VSTD0005A | VSTD0005 | LFY003AQV.D | 0213 |
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COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKJ1

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Lab File ID: LFYB002BV.D Lab Sample ID: VBLKJ1

Date Analyzed: 03/26/96 Time Analyzed: 1059

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | LFBLFYB | LFBLFYB | LFY001BQV.D | 0944 |
| 02 | VSTD0005B | VSTD0005B | LFYB001BV.D | 1018 |
| 03 | MW-45 | 294380 | L294380V.D | 1127 |
| 04 | MW-48 | 294381 | L294381V.D | 1327 |
| 05 | MW-59 | 294382 | L294382V.D | 1400 |
| 06 | MW-60 | 294383 | L294383V.D | 1434 |
| 07 | PT-11 | 294384 | L294384V.D | 1507 |
| 08 | MW-30 | 294229 | L294229V.D | 1648 |
| 09 | MW-40 | 294230 | L294230V.D | 1723 |
| 10 | PT-19 | 294231 | L294231V.D | 1756 |
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COMMENTS:

5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57313

Lab File ID: LFY001PV.D  BFB Injection Date: 03/25/96

Instrument ID: L  BFB Injection Time: 0951

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.7 |
| 75 | 30.0 - 80.0% of mass 95 | 45.3 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.3 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 61.0 |
| 175 | 5.0 - 9.0% of mass 174 | 4.4 ( 7.2)1 |
| 176 | 95.0 - 101.0% of mass 174 | 59.7 ( 97.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 ( 7.3)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD005 | VSTD005 | LFY005HV.D | 03/25/96 | 1226 |
| 02 | VSTD020 | VSTD020 | LFY020HV.D | 03/25/96 | 1300 |
| 03 | VSTD010 | VSTD010 | LFY010H2V.D | 03/25/96 | 1418 |
| 04 | VSTD030 | VSTD030 | LFY030H2V.D | 03/25/96 | 1517 |
| 05 | VSTD002 | VSTD002 | LFY002H3V.D | 03/25/96 | 1650 |
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5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57313

Lab File ID: LFY003PV.D  BFB Injection Date: 03/25/96

Instrument ID: L  BFB Injection Time: 1759

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.3 |
| 75 | 30.0 - 80.0% of mass 95 | 46.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.2 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 62.9 |
| 175 | 5.0 - 9.0% of mass 174 | 4.3 ( 6.9)1 |
| 176 | 95.0 - 101.0% of mass 174 | 62.0 ( 98.6)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 ( 7.1)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD010 | VSTD010 | LFY010AHV.D | 03/25/96 | 1805 |
| 02 | LFBLFYA | LFBLFYA | LFY001AQV.D | 03/25/96 | 1845 |
| 03 | VBLKI8 | VBLKI8 | LFY002AV.D | 03/25/96 | 1923 |
| 04 | BN-S | 294329 | L294329V.D | 03/25/96 | 2004 |
| 05 | FH-D | 294330 | L294330V.D | 03/25/96 | 2035 |
| 06 | FH-S | 294331 | L294331V.D | 03/25/96 | 2109 |
| 07 | MW-36 | 294332 | L294332V.D | 03/25/96 | 2142 |
| 08 | MW-36R | 294333 | L294333V.D | 03/25/96 | 2216 |
| 09 | MW-47 | 294334 | L294334V.D | 03/25/96 | 2250 |
| 10 | MW-56 | 294335 | L294335V.D | 03/25/96 | 2324 |
| 11 | MW-336 | 294336 | L294336V.D | 03/25/96 | 2358 |
| 12 | TB-3-16 | 294337 | L294337V.D | 03/26/96 | 0032 |
| 13 | MW-36MS | 294332MS | L294332MSV.D | 03/26/96 | 0106 |
| 14 | MW-36MSD | 294332MD | L294332MDV.D | 03/26/96 | 0139 |
| 15 | VSTD0005A | VSTD0005 | LFY003AQV.D | 03/26/96 | 0213 |
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5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57313

Lab File ID: LFY005PV.D  BFB Injection Date: 03/26/96

Instrument ID: L  BFB Injection Time: 0821

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.5 |
| 75 | 30.0 - 80.0% of mass 95 | 45.1 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 68.2 |
| 175 | 5.0 - 9.0% of mass 174 | 5.1 ( 7.4)1 |
| 176 | 95.0 - 101.0% of mass 174 | 67.6 ( 99.2)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.3)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD010 | VSTD010 | LFY010BHV.D | 03/26/96 | 0827 |
| 02 | LFBLFYB | LFBLFYB | LFY001BQV.D | 03/26/96 | 0944 |
| 03 | VSTD0005B | VSTD0005B | LFYB001BV.D | 03/26/96 | 1018 |
| 04 | VBLKJ1 | VBLKJ1 | LFYB002BV.D | 03/26/96 | 1059 |
| 05 | MW-45 | 294380 | L294380V.D | 03/26/96 | 1127 |
| 06 | MW-48 | 294381 | L294381V.D | 03/26/96 | 1327 |
| 07 | MW-59 | 294382 | L294382V.D | 03/26/96 | 1400 |
| 08 | MW-60 | 294383 | L294383V.D | 03/26/96 | 1434 |
| 09 | PT-11 | 294384 | L294384V.D | 03/26/96 | 1507 |
| 10 | MW-30 | 294229 | L294229V.D | 03/26/96 | 1648 |
| 11 | MW-40 | 294230 | L294230V.D | 03/26/96 | 1723 |
| 12 | PT-19 | 294231 | L294231V.D | 03/26/96 | 1756 |
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6A-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Instrument ID: L Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

LAB FILE ID: RRF2 =LFY002H3V.D RRF5 =LFY005HV.D
RRF10 =LFY010H2V.D RRF20 =LFY020HV.D RRF30 =LFY030H2V.D

| COMPOUND | RRF2 | RRF5 | RRF10 | RRF20 | RRF30 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane * | 0.585 | 0.674 | 0.657 | 0.646 | 0.670 | 0.647 | 5.6* |
| Chloromethane * | 0.307 | 0.304 | 0.310 | 0.294 | 0.319 | 0.307 | 3.1* |
| Vinyl_Chloride * | 0.293 | 0.342 | 0.337 | 0.331 | 0.357 | 0.332 | 7.2* |
| Bromomethane * | 0.233 | 0.244 | 0.231 | 0.212 | 0.226 | 0.229 | 5.2* |
| Chloroethane * | 0.176 | 0.194 | 0.140 | 0.111 | 0.121 | 0.149 | 23.8* |
| Trichlorofluoromethane * | 0.575 | 0.658 | 0.652 | 0.633 | 0.476 | 0.599 | 12.7* |
| Acetone * | 0.054 | 0.047 | 0.044 | 0.042 | 0.043 | 0.046 | 10.2* |
| 1,1-Dichloroethene * | 0.257 | 0.294 | 0.298 | 0.285 | 0.305 | 0.288 | 6.5* |
| trans-1,2-Dichloroethene * | 0.265 | 0.312 | 0.319 | 0.301 | 0.323 | 0.304 | 7.7* |
| Carbon_Disulfide * | 0.819 | 0.926 | 0.923 | 0.904 | 0.956 | 0.906 | 5.7* |
| Methylene_Chloride * | 0.263 | 0.286 | 0.278 | 0.265 | 0.292 | 0.277 | 4.5* |
| 1,1-Dichloroethane * | 0.525 | 0.582 | 0.570 | 0.549 | 0.595 | 0.564 | 4.9* |
| cis-1,2-Dichloroethene * | 0.299 | 0.343 | 0.343 | 0.329 | 0.357 | 0.334 | 6.6* |
| 2-Butanone * | 0.027 | 0.026 | 0.026 | 0.024 | 0.025 | 0.026 | 4.9* |
| 2,2-Dichloropropane * | 0.478 | 0.536 | 0.546 | 0.538 | 0.572 | 0.534 | 6.4* |
| Chloroform * | 0.546 | 0.626 | 0.605 | 0.594 | 0.637 | 0.602 | 5.9* |
| Bromochloromethane * | 0.210 | 0.235 | 0.228 | 0.220 | 0.242 | 0.227 | 5.6* |
| 1,1,1-Trichloroethane * | 0.481 | 0.575 | 0.564 | 0.558 | 0.598 | 0.555 | 8.0* |
| 1,1-Dichloropropene * | 0.432 | 0.487 | 0.486 | 0.483 | 0.510 | 0.479 | 6.0* |
| Carbon_Tetrachloride * | 0.485 | 0.554 | 0.565 | 0.561 | 0.590 | 0.551 | 7.1* |
| 1,2-Dichloroethane * | 0.332 | 0.390 | 0.363 | 0.352 | 0.386 | 0.365 | 6.6* |
| Benzene * | 0.865 | 0.972 | 0.970 | 0.953 | 1.024 | 0.957 | 6.1* |
| Trichloroethene * | 0.357 | 0.395 | 0.406 | 0.394 | 0.417 | 0.394 | 5.8* |
| 1,2-Dichloropropane * | 0.365 | 0.417 | 0.401 | 0.386 | 0.420 | 0.398 | 5.7* |
| Bromodichloromethane * | 0.565 | 0.632 | 0.607 | 0.590 | 0.641 | 0.607 | 5.1* |
| Dibromomethane * | 0.269 | 0.319 | 0.304 | 0.292 | 0.317 | 0.300 | 6.9* |
| 4-Methyl-2-Pentanone * | 0.336 | 0.309 | 0.288 | 0.269 | 0.277 | 0.296 | 9.1* |
| cis-1,3-Dichloropropene * | 0.507 | 0.585 | 0.552 | 0.544 | 0.588 | 0.555 | 6.0* |
| Toluene * | 0.545 | 0.617 | 0.625 | 0.604 | 0.643 | 0.607 | 6.2* |
| trans-1,3-Dichloropropene * | 0.439 | 0.494 | 0.471 | 0.467 | 0.502 | 0.475 | 5.2* |
| 1,1,2-Trichloroethane * | 0.265 | 0.300 | 0.284 | 0.280 | 0.292 | 0.284 | 4.6* |
| 2-Hexanone * | 0.226 | 0.211 | 0.196 | 0.184 | 0.187 | 0.201 | 8.8* |
| 1,3-Dichloropropane * | 0.508 | 0.504 | 0.561 | 0.546 | 0.581 | 0.554 | 5.2* |
| Tetrachloroethene * | 0.421 | 0.483 | 0.501 | 0.495 | 0.522 | 0.484 | 7.9* |
| Dibromochloromethane * | 0.613 | 0.690 | 0.675 | 0.698 | 0.722 | 0.680 | 6.1* |
| 1,2-Dibromoethane * | 0.525 | 0.613 | 0.586 | 0.602 | 0.615 | 0.588 | 6.3* |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Instrument ID: L Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

LAB FILE ID: RRF2 =LFY002H3V.D RRF5 =LFY005HV.D
RRF10 =LFY010H2V.D RRF20 =LFY020HV.D RRF30 =LFY030H2V.D

| COMPOUND | RRF2 | RRF5 | RRF10 | RRF20 | RRF30 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|
| Chlorobenzene * | 0.925 | 1.034 | 1.036 | 1.045 | 1.091 | 1.026 | 6.0* |
| 1,1,1,2-Tetrachloroethane * | 0.461 | 0.517 | 0.507 | 0.534 | 0.551 | 0.514 | 6.6* |
| Ethylbenzene * | 1.324 | 1.519 | 1.535 | 1.567 | 1.612 | 1.511 | 7.3* |
| Xylene (total) * | 0.500 | 0.591 | 0.586 | 0.595 | 0.618 | 0.578 | 7.9* |
| Styrene * | 0.857 | 0.984 | 0.981 | 0.986 | 1.028 | 0.967 | 6.7* |
| Bromoform * | 0.450 | 0.460 | 0.447 | 0.469 | 0.482 | 0.462 | 3.1* |
| Isopropylbenzene * | 1.485 | 1.685 | 1.719 | 1.757 | 1.807 | 1.691 | 7.3* |
| 1,1,2,2-Tetrachloroethane * | 0.734 | 0.647 | 0.628 | 0.630 | 0.627 | 0.653 | 7.0* |
| 1,2,3-Trichloropropane * | 0.492 | 0.468 | 0.438 | 0.441 | 0.434 | 0.455 | 5.4* |
| Bromobenzene * | 0.502 | 0.549 | 0.538 | 0.543 | 0.568 | 0.540 | 4.4* |
| n-Propylbenzene * | 0.393 | 0.457 | 0.475 | 0.483 | 0.501 | 0.462 | 9.0* |
| 2-Chlorotoluene * | 0.419 | 0.441 | 0.459 | 0.458 | 0.474 | 0.450 | 4.7* |
| 1,3,5-Trimethylbenzene * | 1.158 | 1.278 | 1.317 | 1.323 | 1.373 | 1.290 | 6.3* |
| 4-Chlorotoluene * | 0.423 | 0.456 | 0.458 | 0.463 | 0.479 | 0.456 | 4.4* |
| tert-Butylbenzene * | 1.338 | 1.451 | 1.511 | 1.512 | 1.573 | 1.477 | 6.0* |
| 1,2,4-Trimethylbenzene * | 1.212 | 1.324 | 1.341 | 1.349 | 1.399 | 1.325 | 5.2* |
| sec-Butylbenzene * | 1.757 | 1.911 | 1.980 | 1.996 | 2.071 | 1.943 | 6.1* |
| p-Isopropyltoluene * | 1.472 | 1.600 | 1.659 | 1.667 | 1.741 | 1.628 | 6.2* |
| 1,3-Dichlorobenzene * | 0.912 | 0.917 | 0.918 | 0.911 | 0.958 | 0.923 | 2.1* |
| 1,4-Dichlorobenzene * | 0.935 | 0.943 | 0.940 | 0.941 | 0.973 | 0.946 | 1.6* |
| n-Butylbenzene * | 1.356 | 1.368 | 1.432 | 1.428 | 1.510 | 1.419 | 4.3* |
| 1,2-Dichlorobenzene * | 0.884 | 0.841 | 0.822 | 0.821 | 0.854 | 0.844 | 3.1* |
| 1,2-Dibromo-3-Chloropropane * | 0.185 | 0.145 | 0.136 | 0.136 | 0.137 | 0.148 | 14.3* |
| 1,2,4-Trichlorobenzene * | 0.796 | 0.684 | 0.707 | 0.692 | 0.752 | 0.726 | 6.4* |
| Hexachlorobutadiene * | 0.496 | 0.442 | 0.513 | 0.482 | 0.536 | 0.494 | 7.1* |
| Naphthalene * | 1.357 | 1.118 | 0.953 | 1.069 | 1.157 | 1.131 | 13.1* |
| 1,2,3-Trichlorobenzene * | 0.736 | 0.595 | 0.631 | 0.598 | 0.666 | 0.645 | 9.0* |
| 1,2-Dichloroethane-d4 * | 0.326 | 0.337 | 0.320 | 0.292 | 0.315 | 0.318 | 5.3* |
| Bromofluorobenzene * | 0.812 | 0.817 | 0.811 | 0.781 | 0.816 | 0.807 | 1.8* |
| 1,2-Dichlorobenzene-d4 * | 0.542 | 0.544 | 0.547 | 0.513 | 0.540 | 0.537 | 2.6* |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Instrument ID: L Calibration Date: 03/25/96 Time: 1805

Lab File ID: LFY010AHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.647 | 0.647 | 0.050 | -0.1 | 30.0 |
| Chloromethane | 0.307 | 0.305 | 0.192 | 0.5 | 30.0 |
| Vinyl Chloride | 0.332 | 0.333 | 0.050 | -0.3 | 30.0 |
| Bromomethane | 0.229 | 0.230 | 0.050 | -0.2 | 30.0 |
| Chloroethane | 0.149 | 0.150 | 0.050 | -1.3 | 30.0 |
| Trichlorofluoromethane | 0.599 | 0.629 | 0.050 | -5.0 | 30.0 |
| Acetone | 0.046 | 0.039 | 0.020 | 14.8 | 30.0 |
| 1,1-Dichloroethene | 0.288 | 0.282 | 0.050 | 2.3 | 30.0 |
| trans-1,2-Dichloroethene | 0.304 | 0.296 | 0.050 | 2.5 | 30.0 |
| Carbon Disulfide | 0.906 | 0.896 | 0.050 | 1.1 | 30.0 |
| Methylene Chloride | 0.277 | 0.265 | 0.050 | 4.3 | 30.0 |
| 1,1-Dichloroethane | 0.564 | 0.555 | 0.300 | 1.6 | 30.0 |
| cis-1,2-Dichloroethene | 0.334 | 0.321 | 0.050 | 3.9 | 30.0 |
| 2-Butanone | 0.026 | 0.021 | 0.020 | 19.4 | 30.0 |
| 2,2-Dichloropropane | 0.534 | 0.524 | 0.050 | 1.9 | 30.0 |
| Chloroform | 0.602 | 0.583 | 0.050 | 3.0 | 30.0 |
| Bromochloromethane | 0.227 | 0.211 | 0.050 | 6.9 | 30.0 |
| 1,1,1-Trichloroethane | 0.555 | 0.544 | 0.050 | 2.1 | 30.0 |
| 1,1-Dichloropropene | 0.479 | 0.479 | 0.050 | 0.1 | 30.0 |
| Carbon Tetrachloride | 0.551 | 0.543 | 0.050 | 1.5 | 30.0 |
| 1,2-Dichloroethane | 0.365 | 0.353 | 0.050 | 3.3 | 30.0 |
| Benzene | 0.957 | 0.930 | 0.050 | 2.8 | 30.0 |
| Trichloroethene | 0.394 | 0.381 | 0.050 | 3.2 | 30.0 |
| 1,2-Dichloropropane | 0.398 | 0.388 | 0.050 | 2.4 | 30.0 |
| Bromodichloromethane | 0.607 | 0.585 | 0.050 | 3.7 | 30.0 |
| Dibromomethane | 0.300 | 0.282 | 0.050 | 6.0 | 30.0 |
| 4-Methyl-2-Pentanone | 0.296 | 0.236 | 0.020 | 20.3 | 30.0 |
| cis-1,3-Dichloropropene | 0.555 | 0.542 | 0.050 | 2.3 | 30.0 |
| Toluene | 0.607 | 0.587 | 0.050 | 3.3 | 30.0 |
| trans-1,3-Dichloropropene | 0.475 | 0.462 | 0.050 | 2.7 | 30.0 |
| 1,1,2-Trichloroethane | 0.284 | 0.266 | 0.050 | 6.4 | 30.0 |
| 2-Hexanone | 0.201 | 0.158 | 0.020 | 21.1 | 30.0 |
| 1,3-Dichloropropane | 0.554 | 0.518 | 0.050 | 6.4 | 30.0 |
| Tetrachloroethene | 0.484 | 0.461 | 0.050 | 4.9 | 30.0 |
| Dibromochloromethane | 0.680 | 0.645 | 0.050 | 5.2 | 30.0 |
| 1,2-Dibromoethane | 0.588 | 0.534 | 0.050 | 9.2 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

7A-2
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Instrument ID: L Calibration Date: 03/25/96 Time: 1805

Lab File ID: LFY010AHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Chlorobenzene | 1.026 | 1.011 | 0.300 | 1.5 | 30.0 |
| 1,1,1,2-Tetrachloroethane | 0.514 | 0.492 | 0.050 | 4.3 | 30.0 |
| Ethylbenzene | 1.511 | 1.514 | 0.050 | -0.2 | 30.0 |
| Xylene (total) | 0.578 | 0.567 | 0.050 | 1.9 | 30.0 |
| Styrene | 0.967 | 0.947 | 0.050 | 2.1 | 30.0 |
| Bromoform | 0.462 | 0.411 | 0.250 | 10.9 | 30.0 |
| Isopropylbenzene | 1.691 | 1.669 | 0.050 | 1.3 | 30.0 |
| 1,1,2,2-Tetrachloroethane | 0.653 | 0.553 | 0.300 | 15.4 | 30.0 |
| 1,2,3-Trichloropropane | 0.455 | 0.394 | 0.050 | 13.4 | 30.0 |
| Bromobenzene | 0.540 | 0.514 | 0.050 | 4.8 | 30.0 |
| n-Propylbenzene | 0.462 | 0.461 | 0.050 | 0.2 | 30.0 |
| 2-Chlorotoluene | 0.450 | 0.440 | 0.050 | 2.3 | 30.0 |
| 1,3,5-Trimethylbenzene | 1.290 | 1.269 | 0.050 | 1.6 | 30.0 |
| 4-Chlorotoluene | 0.456 | 0.443 | 0.050 | 2.8 | 30.0 |
| tert-Butylbenzene | 1.477 | 1.447 | 0.050 | 2.0 | 30.0 |
| 1,2,4-Trimethylbenzene | 1.325 | 1.291 | 0.050 | 2.6 | 30.0 |
| sec-Butylbenzene | 1.943 | 1.913 | 0.050 | 1.6 | 30.0 |
| p-Isopropyltoluene | 1.628 | 1.605 | 0.050 | 1.4 | 30.0 |
| 1,3-Dichlorobenzene | 0.923 | 0.876 | 0.050 | 5.2 | 30.0 |
| 1,4-Dichlorobenzene | 0.946 | 0.895 | 0.050 | 5.4 | 30.0 |
| n-Butylbenzene | 1.419 | 1.418 | 0.050 | 0.1 | 30.0 |
| 1,2-Dichlorobenzene | 0.844 | 0.789 | 0.050 | 6.6 | 30.0 |
| 1,2-Dibromo-3-Chloropropane | 0.148 | 0.125 | 0.020 | 15.8 | 30.0 |
| 1,2,4-Trichlorobenzene | 0.726 | 0.674 | 0.050 | 7.2 | 30.0 |
| Hexachlorobutadiene | 0.494 | 0.477 | 0.050 | 3.5 | 30.0 |
| Naphthalene | 1.131 | 1.019 | 0.050 | 9.9 | 30.0 |
| 1,2,3-Trichlorobenzene | 0.645 | 0.589 | 0.050 | 8.7 | 30.0 |
| 1,2-Dichloroethane-d4 | 0.318 | 0.292 | 0.050 | 8.1 | 30.0 |
| Bromofluorobenzene | 0.807 | 0.772 | 0.050 | 4.4 | 30.0 |
| 1,2-Dichlorobenzene-d4 | 0.537 | 0.500 | 0.050 | 6.9 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No. SDG No.: 57313

Instrument ID: L Calibration Date: 03/26/96 Time: 0827

Lab File ID: LFY010BHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.647 | 0.657 | 0.050 | -1.5 | 30.0 |
| Chloromethane | 0.307 | 0.306 | 0.192 | 0.2 | 30.0 |
| Vinyl_Chloride | 0.332 | 0.346 | 0.050 | -4.2 | 30.0 |
| Bromomethane | 0.229 | 0.223 | 0.050 | 2.6 | 30.0 |
| Chloroethane | 0.149 | 0.175 | 0.050 | -18.1 | 30.0 |
| Trichlorofluoromethane | 0.599 | 0.646 | 0.050 | -7.8 | 30.0 |
| Acetone | 0.046 | 0.043 | 0.020 | 5.8 | 30.0 |
| 1,1-Dichloroethene | 0.288 | 0.287 | 0.050 | 0.5 | 30.0 |
| trans-1,2-Dichloroethene | 0.304 | 0.309 | 0.050 | -1.7 | 30.0 |
| Carbon_Disulfide | 0.906 | 0.946 | 0.050 | -4.4 | 30.0 |
| Methylene_Chloride | 0.277 | 0.276 | 0.050 | 0.1 | 30.0 |
| 1,1-Dichloroethane | 0.564 | 0.576 | 0.300 | -2.0 | 30.0 |
| cis-1,2-Dichloroethene | 0.334 | 0.336 | 0.050 | -0.5 | 30.0 |
| 2-Butanone | 0.026 | 0.024 | 0.020 | 8.1 | 30.0 |
| 2,2-Dichloropropane | 0.534 | 0.538 | 0.050 | -0.7 | 30.0 |
| Chloroform | 0.602 | 0.602 | 0.050 | -0.1 | 30.0 |
| Bromochloromethane | 0.227 | 0.221 | 0.050 | 2.4 | 30.0 |
| 1,1,1-Trichloroethane | 0.555 | 0.560 | 0.050 | -0.8 | 30.0 |
| 1,1-Dichloropropene | 0.479 | 0.486 | 0.050 | -1.3 | 30.0 |
| Carbon_Tetrachloride | 0.551 | 0.560 | 0.050 | -1.6 | 30.0 |
| 1,2-Dichloroethane | 0.365 | 0.374 | 0.050 | -2.6 | 30.0 |
| Benzene | 0.957 | 0.963 | 0.050 | -0.7 | 30.0 |
| Trichloroethene | 0.394 | 0.388 | 0.050 | 1.4 | 30.0 |
| 1,2-Dichloropropane | 0.398 | 0.396 | 0.050 | 0.4 | 30.0 |
| Bromodichloromethane | 0.607 | 0.601 | 0.050 | 0.9 | 30.0 |
| Dibromomethane | 0.300 | 0.300 | 0.050 | 0.0 | 30.0 |
| 4-Methyl-2-Pentanone | 0.296 | 0.275 | 0.020 | 7.1 | 30.0 |
| cis-1,3-Dichloropropene | 0.555 | 0.556 | 0.050 | -0.1 | 30.0 |
| Toluene | 0.607 | 0.615 | 0.050 | -1.4 | 30.0 |
| trans-1,3-Dichloropropene | 0.475 | 0.475 | 0.050 | 0.0 | 30.0 |
| 1,1,2-Trichloroethane | 0.284 | 0.275 | 0.050 | 3.2 | 30.0 |
| 2-Hexanone | 0.201 | 0.183 | 0.020 | 8.6 | 30.0 |
| 1,3-Dichloropropane | 0.554 | 0.541 | 0.050 | 2.2 | 30.0 |
| Tetrachloroethene | 0.484 | 0.489 | 0.050 | -0.9 | 30.0 |
| Dibromochloromethane | 0.680 | 0.633 | 0.050 | 6.9 | 30.0 |
| 1,2-Dibromoethane | 0.588 | 0.551 | 0.050 | 6.3 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

7A-2
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No : SDG No.: 57313

Instrument ID: L Calibration Date: 03/26/96 Time: 0827

Lab File ID: LFY010BHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Chlorobenzene | 1.026 | 1.001 | 0.300 | 2.5 | 30.0 |
| 1,1,1,2-Tetrachloroethane | 0.514 | 0.492 | 0.050 | 4.2 | 30.0 |
| Ethylbenzene | 1.511 | 1.494 | 0.050 | 1.2 | 30.0 |
| Xylene (total) | 0.578 | 0.573 | 0.050 | 0.9 | 30.0 |
| Styrene | 0.967 | 0.944 | 0.050 | 2.4 | 30.0 |
| Bromoform | 0.462 | 0.403 | 0.250 | 12.7 | 30.0 |
| Isopropylbenzene | 1.691 | 1.663 | 0.050 | 1.6 | 30.0 |
| 1,1,2,2-Tetrachloroethane | 0.653 | 0.578 | 0.300 | 11.5 | 30.0 |
| 1,2,3-Trichloropropane | 0.455 | 0.418 | 0.050 | 8.1 | 30.0 |
| Bromobenzene | 0.540 | 0.526 | 0.050 | 2.6 | 30.0 |
| n-Propylbenzene | 0.462 | 0.460 | 0.050 | 0.4 | 30.0 |
| 2-Chlorotoluene | 0.450 | 0.439 | 0.050 | 2.5 | 30.0 |
| 1,3,5-Trimethylbenzene | 1.290 | 1.276 | 0.050 | 1.1 | 30.0 |
| 4-Chlorotoluene | 0.456 | 0.445 | 0.050 | 2.3 | 30.0 |
| tert-Butylbenzene | 1.477 | 1.459 | 0.050 | 1.2 | 30.0 |
| 1,2,4-Trimethylbenzene | 1.325 | 1.293 | 0.050 | 2.4 | 30.0 |
| sec-Butylbenzene | 1.943 | 1.927 | 0.050 | 0.8 | 30.0 |
| p-Isopropyltoluene | 1.628 | 1.612 | 0.050 | 1.0 | 30.0 |
| 1,3-Dichlorobenzene | 0.923 | 0.885 | 0.050 | 4.2 | 30.0 |
| 1,4-Dichlorobenzene | 0.946 | 0.910 | 0.050 | 3.9 | 30.0 |
| n-Butylbenzene | 1.419 | 1.409 | 0.050 | 0.7 | 30.0 |
| 1,2-Dichlorobenzene | 0.844 | 0.794 | 0.050 | 6.0 | 30.0 |
| 1,2-Dibromo-3-Chloropropane | 0.148 | 0.126 | 0.020 | 14.8 | 30.0 |
| 1,2,4-Trichlorobenzene | 0.726 | 0.680 | 0.050 | 6.3 | 30.0 |
| Hexachlorobutadiene | 0.494 | 0.476 | 0.050 | 3.8 | 30.0 |
| Naphthalene | 1.131 | 1.015 | 0.050 | 10.2 | 30.0 |
| 1,2,3-Trichlorobenzene | 0.645 | 0.598 | 0.050 | 7.3 | 30.0 |
| 1,2-Dichloroethane-d4 | 0.318 | 0.338 | 0.050 | -6.2 | 30.0 |
| Bromofluorobenzene | 0.807 | 0.813 | 0.050 | -0.7 | 30.0 |
| 1,2-Dichlorobenzene-d4 | 0.537 | 0.531 | 0.050 | 1.1 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57313

Lab File ID (Standard): LFY010AHV.D Date Analyzed: 03/25/96

Instrument ID: L Time Analyzed: 1805

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

| | | IS1(FBZ) AREA | # | RT | # | IS2(CBZ) AREA | # | RT | # | IS3 AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 164790 | | 9.76 | | 137604 | | 16.03 | | 0 | | 0.00 | |
| | UPPER LIMIT | 329580 | | 10.26 | | 275208 | | 16.53 | | 0 | | 0.50 | |
| | LOWER LIMIT | 82395 | | 9.26 | | 68802 | | 15.53 | | 0 | | -0.50 | |
| | EPA SAMPLE No. | | | | | | | | | | | | |
| 01 | LFBLFYA | 148465 | | 9.75 | | 126502 | | 16.02 | | | | | |
| 02 | VBLKI8 | 154876 | | 9.75 | | 133978 | | 16.02 | | | | | |
| 03 | BN-S | 143647 | | 9.73 | | 125096 | | 16.02 | | | | | |
| 04 | FH-D | 152975 | | 9.73 | | 136711 | | 16.02 | | | | | |
| 05 | FH-S | 155915 | | 9.75 | | 137930 | | 16.02 | | | | | |
| 06 | MW-36 | 149842 | | 9.75 | | 132737 | | 16.02 | | | | | |
| 07 | MW-36R | 148797 | | 9.75 | | 129424 | | 16.02 | | | | | |
| 08 | MW-47 | 150868 | | 9.75 | | 133304 | | 16.04 | | | | | |
| 09 | MW-56 | 155550 | | 9.75 | | 136506 | | 16.02 | | | | | |
| 10 | MW-336 | 151069 | | 9.75 | | 130397 | | 16.02 | | | | | |
| 11 | TB-3-16 | 145824 | | 9.75 | | 126613 | | 16.02 | | | | | |
| 12 | MW-36MS | 147196 | | 9.75 | | 128219 | | 16.03 | | | | | |
| 13 | MW-36MSD | 149385 | | 9.74 | | 135603 | | 16.01 | | | | | |
| 14 | VSTD0005A | 147178 | | 9.73 | | 129717 | | 16.02 | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 = N/A

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57313

Lab File ID (Standard): LFY010BHV.D  Date Analyzed: 03/26/96

Instrument ID: L  Time Analyzed: 0827

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| | | IS1(FBZ) AREA # | IS1(FBZ) RT # | IS2(CBZ) AREA # | IS2(CBZ) RT # | IS3 AREA # | IS3 RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 139481 | 9.74 | 122826 | 16.03 | 0 | 0.00 |
| | UPPER LIMIT | 278962 | 10.24 | 245652 | 16.53 | 0 | 0.50 |
| | LOWER LIMIT | 69740 | 9.24 | 61413 | 15.53 | 0 | -0.50 |
| | EPA SAMPLE No. | | | | | | |
| 01 | LFBLFYB | 147635 | 9.75 | 126324 | 16.02 | | |
| 02 | VSTD0005B | 138266 | 9.73 | 120098 | 16.02 | | |
| 03 | VBLKJ1 | 137507 | 9.75 | 119815 | 16.02 | | |
| 04 | MW-45 | 140948 | 9.73 | 122371 | 16.04 | | |
| 05 | MW-48 | 137287 | 9.73 | 118644 | 16.02 | | |
| 06 | MW-59 | 141089 | 9.75 | 119416 | 16.02 | | |
| 07 | MW-60 | 140933 | 9.75 | 122749 | 16.02 | | |
| 08 | PT-11 | 138463 | 9.75 | 119536 | 16.04 | | |
| 09 | MW-30 | 136885 | 9.75 | 121055 | 16.02 | | |
| 10 | MW-40 | 136366 | 9.75 | 120600 | 16.02 | | |
| 11 | PT-19 | 135315 | 9.75 | 121682 | 16.04 | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 = N/A

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

## 2. Sample Delivery Group No. 57342

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW27ASH

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: 294450

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294450I2V.D

Level: (low/med) LOW Date Received: 03/20/96

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW27ASH

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: 294450

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294450I2V.D

Level: (low/med) LOW Date Received: 03/20/96

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW27ASH

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: 294450

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294450I2V.D

Level: (low/med) LOW Date Received: 03/20/96

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYD

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001QDV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.8 | |
| 74-87-3 | Chloromethane | 0.9 | |
| 75-01-4 | Vinyl Chloride | 0.8 | |
| 74-83-9 | Bromomethane | 1 | |
| 75-00-3 | Chloroethane | 1 | |
| 75-69-4 | Trichlorofluoromethane | 0.8 | |
| 67-64-1 | Acetone | 4 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.8 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.9 | |
| 75-15-0 | Carbon Disulfide | 0.9 | |
| 75-09-2 | Methylene Chloride | 0.8 | |
| 75-34-3 | 1,1-Dichloroethane | 0.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.9 | |
| 78-93-3 | 2-Butanone | 4 | J |
| 590-20-7 | 2,2-Dichloropropane | 1 | |
| 67-66-3 | Chloroform | 0.9 | |
| 74-97-5 | Bromochloromethane | 0.8 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.8 | |
| 563-58-6 | 1,1-Dichloropropene | 0.8 | |
| 56-23-5 | Carbon Tetrachloride | 0.8 | |
| 107-06-2 | 1,2-Dichloroethane | 0.8 | |
| 71-43-2 | Benzene | 1 | |
| 79-01-6 | Trichloroethene | 0.8 | |
| 78-87-5 | 1,2-Dichloropropane | 0.8 | |
| 75-27-4 | Bromodichloromethane | 0.8 | |
| 74-95-3 | Dibromomethane | 0.8 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.8 | |
| 108-88-3 | Toluene | 1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | 0.8 | |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 0.8 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYD

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001QDV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.8 | |
| 124-48-1 | Dibromochloromethane | 0.9 | |
| 106-93-4 | 1,2-Dibromoethane | 0.9 | |
| 108-90-7 | Chlorobenzene | 0.9 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.9 | |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 3 | |
| 100-42-5 | Styrene | 0.9 | |
| 75-25-2 | Bromoform | 0.8 | |
| 98-82-8 | Isopropylbenzene | 1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.9 | |
| 96-18-4 | 1,2,3-Trichloropropane | 1 | |
| 108-86-1 | Bromobenzene | 0.9 | |
| 103-65-1 | n-Propylbenzene | 0.9 | |
| 95-49-8 | 2-Chlorotoluene | 0.9 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1 | |
| 106-43-4 | 4-Chlorotoluene | 0.9 | |
| 98-06-6 | tert-Butylbenzene | 0.9 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1 | |
| 135-98-8 | sec-Butylbenzene | 0.9 | |
| 99-87-6 | p-Isopropyltoluene | 0.9 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.9 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | |
| 104-51-8 | n-Butylbenzene | 1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.9 | |
| 87-68-3 | Hexachlorobutadiene | 0.9 | |
| 91-20-3 | Naphthalene | 1 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.4 | J |
| 74-87-3 | Chloromethane | 0.5 | |
| 75-01-4 | Vinyl Chloride | 0.4 | J |
| 74-83-9 | Bromomethane | 0.6 | |
| 75-00-3 | Chloroethane | 0.5 | |
| 75-69-4 | Trichlorofluoromethane | 0.4 | J |
| 67-64-1 | Acetone | 5 | |
| 75-35-4 | 1,1-Dichloroethene | 0.4 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.4 | J |
| 75-15-0 | Carbon Disulfide | 0.4 | J |
| 75-09-2 | Methylene Chloride | 0.4 | J |
| 75-34-3 | 1,1-Dichloroethane | 0.4 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 0.4 | J |
| 78-93-3 | 2-Butanone | 4 | J |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | |
| 67-66-3 | Chloroform | 0.4 | J |
| 74-97-5 | Bromochloromethane | 0.4 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.4 | J |
| 563-58-6 | 1,1-Dichloropropene | 0.4 | J |
| 56-23-5 | Carbon Tetrachloride | 0.4 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.4 | J |
| 71-43-2 | Benzene | 0.5 | |
| 79-01-6 | Trichloroethene | 0.4 | J |
| 78-87-5 | 1,2-Dichloropropane | 0.4 | J |
| 75-27-4 | Bromodichloromethane | 0.4 | J |
| 74-95-3 | Dibromomethane | 0.4 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.4 | J |
| 108-88-3 | Toluene | 0.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.4 | J |
| 79-00-5 | 1,1,2-Trichloroethane | 0.4 | J |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 0.4 | J |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.4 | J |
| 124-48-1 | Dibromochloromethane | 0.4 | J |
| 106-93-4 | 1,2-Dibromoethane | 0.4 | J |
| 108-90-7 | Chlorobenzene | 0.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.4 | J |
| 100-41-4 | Ethylbenzene | 0.5 | |
| 1330-20-7 | Xylene (total) | 2 | |
| 100-42-5 | Styrene | 0.4 | J |
| 75-25-2 | Bromoform | 0.3 | J |
| 98-82-8 | Isopropylbenzene | 0.5 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | |
| 108-86-1 | Bromobenzene | 0.4 | J |
| 103-65-1 | n-Propylbenzene | 0.4 | J |
| 95-49-8 | 2-Chlorotoluene | 0.4 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | |
| 106-43-4 | 4-Chlorotoluene | 0.4 | J |
| 98-06-6 | tert-Butylbenzene | 0.4 | J |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | |
| 135-98-8 | sec-Butylbenzene | 0.4 | J |
| 99-87-6 | p-Isopropyltoluene | 0.4 | J |
| 541-73-1 | 1,3-Dichlorobenzene | 0.4 | J |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | |
| 104-51-8 | n-Butylbenzene | 0.5 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.6 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.4 | J |
| 87-68-3 | Hexachlorobutadiene | 0.4 | J |
| 91-20-3 | Naphthalene | 0.5 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.4 | J |

2A

# WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

| | EPA SAMPLE NO. | SMC1 (DCE)# | SMC2 (BFB)# | SMC3 (DCB)# | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | LFBLFYD | 86 | 93 | 95 | | 0 |
| 02 | VBLKJ7 | 87 | 90 | 94 | | 0 |
| 03 | MW27ASH | 83 | 90 | 96 | | 0 |
| 04 | VSTD0005 | 88 | 86 | 94 | | 0 |
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| | QC LIMITS |
|---|---|
| SMC1 (DCE) = 1,2-Dichloroethane-d4 | (83-143) |
| SMC2 (BFB) = Bromofluorobenzene | (86-115) |
| SMC3 (DCB) = 1,2-Dichlorobenzene-d4 | (80-120) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Inchcape Environmental

RECOVERY REPORT

Client Name: ENGSC2 Client SDG: 57342
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: LFBLFYD Client Smp ID: LFBLFYD
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: MS
SpikeList File: lfbver3ketcs2.spk Quant Type: ISTD
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m
Misc Info: 100%

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 1 | 0.8 | 78.40 | 60-140 |
| 2 Chloromethane | 1 | 0.9 | 86.99 | 60-140 |
| 3 Vinyl Chloride | 1 | 0.8 | 78.11 | 60-140 |
| 4 Bromomethane | 1 | 1.0 | 99.48 | 60-140 |
| 5 Chloroethane | 1 | 1 | 115.07 | 60-140 |
| 6 Trichlorofluoromet | 1 | 0.8 | 78.31 | 60-140 |
| 7 1,1-Dichloroethene | 1 | 0.8 | 83.54 | 60-140 |
| 8 Acetone | 5 | 4 | 89.35 | 60-140 |
| 9 Carbon Disulfide | 1 | 0.9 | 88.80 | 60-140 |
| 10 Methylene Chloride | 1 | 0.8 | 84.34 | 60-140 |
| 11 trans-1,2-Dichloro | 1 | 0.9 | 90.96 | 60-140 |
| 13 1,1-Dichloroethane | 1 | 0.9 | 87.63 | 60-140 |
| 14 2,2-Dichloropropan | 1 | 1 | 105.41 | 60-140 |
| 15 cis-1,2-Dichloroet | 1 | 0.9 | 86.83 | 60-140 |
| 16 2-Butanone | 5 | 4 | 90.38 | 60-140 |
| 17 Bromochloromethane | 1 | 0.8 | 85.26 | 60-140 |
| 19 Chloroform | 1 | 0.9 | 88.51 | 60-140 |
| 20 1,1,1-Trichloroeth | 1 | 0.8 | 83.67 | 60-140 |
| 21 Carbon Tetrachlori | 1 | 0.8 | 78.60 | 60-140 |
| 22 1,1-Dichloropropen | 1 | 0.8 | 81.50 | 60-140 |
| 24 Benzene | 1 | 1.0 | 99.94 | 60-140 |
| 25 1,2-Dichloroethane | 1 | 0.8 | 81.32 | 60-140 |
| 27 Trichloroethene | 1 | 0.8 | 83.03 | 60-140 |
| 28 1,2-Dichloropropan | 1 | 0.8 | 82.85 | 60-140 |
| 29 Dibromomethane | 1 | 0.8 | 81.99 | 60-140 |
| 31 Bromodichlorometha | 1 | 0.8 | 82.51 | 60-140 |
| 32 cis-1,3-Dichloropr | 1 | 0.8 | 83.77 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 5 | 96.39 | 60-140 |
| 34 Toluene | 1 | 1.0 | 99.69 | 60-140 |
| 35 trans-1,3-Dichloro | 1 | 0.8 | 83.03 | 60-140 |
| 36 1,1,2-Trichloroeth | 1 | 0.8 | 84.90 | 60-140 |
| 37 Tetrachloroethene | 1 | 0.8 | 84.61 | 60-140 |
| 38 1,3-Dichloropropan | 1 | 0.8 | 83.97 | 60-140 |
| 39 2-Hexanone | 5 | 5 | 99.07 | 60-140 |
| 40 Dibromochlorometha | 1 | 0.9 | 88.24 | 60-140 |
| 41 1,2-Dibromoethane | 1 | 0.9 | 86.98 | 60-140 |

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RECOVERY REPORT

Client Name: ENGSC2 Client SDG: 57342
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: LFBLFYD Client Smp ID: LFBLFYD
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: MS
SpikeList File: lfbver3ketcs2.spk Quant Type: ISTD
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 1 | 0.9 | 94.37 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 1 | 0.9 | 87.26 | 60-140 |
| | 45 Ethylbenzene | 1 | 1.0 | 97.32 | 60-140 |
| | 46 m- & p-Xylene | 2 | 2 | 100.93 | 60-140 |
| | 47 o-Xylene | 1 | 1.0 | 97.94 | 60-140 |
| M | 48 Xylene (total) | 3 | 3 | 102.61 | 60-140 |
| | 49 Styrene | 1 | 0.9 | 91.37 | 60-140 |
| | 50 Bromoform | 1 | 0.8 | 82.15 | 60-140 |
| | 51 Isopropylbenzene | 1 | 1.0 | 95.20 | 60-140 |
| | 53 Bromobenzene | 1 | 0.9 | 86.12 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 1 | 0.9 | 92.13 | 60-140 |
| | 55 1,2,3-Trichloropro | 1 | 1.0 | 95.25 | 60-140 |
| | 56 n-Propylbenzene | 1 | 0.9 | 88.05 | 60-140 |
| | 57 2-Chlorotoluene | 1 | 0.9 | 88.81 | 60-140 |
| | 58 4-Chlorotoluene | 1 | 0.9 | 89.07 | 60-140 |
| | 59 1,3,5-Trimethylben | 1 | 1.0 | 96.41 | 60-140 |
| | 60 tert-Butylbenzene | 1 | 0.9 | 91.48 | 60-140 |
| | 61 1,2,4-Trimethylben | 1 | 1.0 | 98.53 | 60-140 |
| | 62 sec-Butylbenzene | 1 | 0.9 | 91.74 | 60-140 |
| | 63 1,3-Dichlorobenzen | 1 | 0.9 | 94.06 | 60-140 |
| | 65 p-Isopropyltoluene | 1 | 0.9 | 91.67 | 60-140 |
| | 66 1,4-Dichlorobenzen | 1 | 1.0 | 96.50 | 60-140 |
| | 68 1,2-Dichlorobenzen | 1 | 1.0 | 97.58 | 60-140 |
| | 69 n-Butylbenzene | 1 | 1.0 | 95.23 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 1 | 1 | 112.96 | 60-140 |
| | 71 1,2,4-Trichloroben | 1 | 0.9 | 92.24 | 60-140 |
| | 72 Hexachlorobutadien | 1 | 0.9 | 93.39 | 60-140 |
| | 73 Naphthalene | 1 | 1.0 | 96.48 | 60-140 |
| | 74 1,2,3-Trichloroben | 1 | 1.0 | 97.55 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 86.26 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 93.11 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 95.20 | 80-120 |

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RECOVERY REPORT

Client Name: ENGSC2 Client SDG: 57342
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: VSTD0005 Client Smp ID: VSTD0005
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: MS
SpikeList File: lfbver3ketcs20_5.spk Quant Type: ISTD
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m
Misc Info: 100%

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 1 | Dichlorodifluorome | 0.5 | 0.4 | 77.49 | 60-140 |
| 2 | Chloromethane | 0.5 | 0.5 | 93.25 | 60-140 |
| 3 | Vinyl Chloride | 0.5 | 0.4 | 72.58 | 60-140 |
| 4 | Bromomethane | 0.5 | 0.6 | 118.46 | 60-140 |
| 5 | Chloroethane | 0.5 | 0.5 | 98.43 | 60-140 |
| 6 | Trichlorofluoromet | 0.5 | 0.4 | 77.18 | 60-140 |
| 7 | 1,1-Dichloroethene | 0.5 | 0.4 | 81.37 | 60-140 |
| 8 | Acetone | 5 | 5 | 104.45 | 60-140 |
| 9 | Carbon Disulfide | 0.5 | 0.4 | 78.96 | 60-140 |
| 10 | Methylene Chloride | 0.5 | 0.4 | 87.19 | 60-140 |
| 11 | trans-1,2-Dichloro | 0.5 | 0.4 | 85.49 | 60-140 |
| 13 | 1,1-Dichloroethane | 0.5 | 0.4 | 89.39 | 60-140 |
| 14 | 2,2-Dichloropropan | 0.5 | 0.5 | 106.49 | 60-140 |
| 15 | cis-1,2-Dichloroet | 0.5 | 0.4 | 82.59 | 60-140 |
| 16 | 2-Butanone | 5 | 4 | 87.73 | 60-140 |
| 17 | Bromochloromethane | 0.5 | 0.4 | 79.86 | 60-140 |
| 19 | Chloroform | 0.5 | 0.4 | 86.11 | 60-140 |
| 20 | 1,1,1-Trichloroeth | 0.5 | 0.4 | 83.88 | 60-140 |
| 21 | Carbon Tetrachlori | 0.5 | 0.4 | 75.60 | 60-140 |
| 22 | 1,1-Dichloropropen | 0.5 | 0.4 | 77.56 | 60-140 |
| 24 | Benzene | 0.5 | 0.5 | 98.64 | 60-140 |
| 25 | 1,2-Dichloroethane | 0.5 | 0.4 | 81.92 | 60-140 |
| 27 | Trichloroethene | 0.5 | 0.4 | 87.80 | 60-140 |
| 28 | 1,2-Dichloropropan | 0.5 | 0.4 | 85.38 | 60-140 |
| 29 | Dibromomethane | 0.5 | 0.4 | 77.67 | 60-140 |
| 31 | Bromodichlorometha | 0.5 | 0.4 | 80.20 | 60-140 |
| 32 | cis-1,3-Dichloropr | 0.5 | 0.4 | 81.12 | 60-140 |
| 33 | 4-Methyl-2-Pentano | 5 | 5 | 96.11 | 60-140 |
| 34 | Toluene | 0.5 | 0.6 | 111.21 | 60-140 |
| 35 | trans-1,3-Dichloro | 0.5 | 0.4 | 74.26 | 60-140 |
| 36 | 1,1,2-Trichloroeth | 0.5 | 0.4 | 90.49 | 60-140 |
| 37 | Tetrachloroethene | 0.5 | 0.4 | 80.26 | 60-140 |
| 38 | 1,3-Dichloropropan | 0.5 | 0.4 | 88.00 | 60-140 |
| 39 | 2-Hexanone | 5 | 5 | 96.68 | 60-140 |
| 40 | Dibromochlorometha | 0.5 | 0.4 | 76.61 | 60-140 |
| 41 | 1,2-Dibromoethane | 0.5 | 0.4 | 88.33 | 60-140 |

Inchcape Environmental

RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: VSTD0005
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs20_5.spk
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m
Misc Info: 100%

Client SDG: 57342
Fraction: VOA
Client Smp ID: VSTD0005
Operator: CMP
SampleType: MS
Quant Type: ISTD

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 0.5 | 0.5 | 93.56 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 0.5 | 0.4 | 83.19 | 60-140 |
| | 45 Ethylbenzene | 0.5 | 0.5 | 100.20 | 60-140 |
| | 46 m- & p-Xylene | 1 | 1 | 105.42 | 60-140 |
| | 47 o-Xylene | 0.5 | 0.5 | 100.97 | 60-140 |
| M | 48 Xylene (total) | 2 | 2 | 106.74 | 60-140 |
| | 49 Styrene | 0.5 | 0.4 | 89.89 | 60-140 |
| | 50 Bromoform | 0.5 | 0.3 | 67.27 | 60-140 |
| | 51 Isopropylbenzene | 0.5 | 0.5 | 92.44 | 60-140 |
| | 53 Bromobenzene | 0.5 | 0.4 | 85.22 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 0.5 | 0.5 | 95.56 | 60-140 |
| | 55 1,2,3-Trichloropro | 0.5 | 0.5 | 96.90 | 60-140 |
| | 56 n-Propylbenzene | 0.5 | 0.4 | 85.05 | 60-140 |
| | 57 2-Chlorotoluene | 0.5 | 0.4 | 85.88 | 60-140 |
| | 58 4-Chlorotoluene | 0.5 | 0.4 | 90.17 | 60-140 |
| | 59 1,3,5-Trimethylben | 0.5 | 0.5 | 93.51 | 60-140 |
| | 60 tert-Butylbenzene | 0.5 | 0.4 | 85.48 | 60-140 |
| | 61 1,2,4-Trimethylben | 0.5 | 0.5 | 103.06 | 60-140 |
| | 62 sec-Butylbenzene | 0.5 | 0.4 | 88.37 | 60-140 |
| | 63 1,3-Dichlorobenzen | 0.5 | 0.4 | 89.15 | 60-140 |
| | 65 p-Isopropyltoluene | 0.5 | 0.4 | 85.69 | 60-140 |
| | 66 1,4-Dichlorobenzen | 0.5 | 0.5 | 95.43 | 60-140 |
| | 68 1,2-Dichlorobenzen | 0.5 | 0.5 | 95.85 | 60-140 |
| | 69 n-Butylbenzene | 0.5 | 0.5 | 92.31 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 0.5 | 0.6 | 116.18 | 60-140 |
| | 71 1,2,4-Trichloroben | 0.5 | 0.4 | 91.88 | 60-140 |
| | 72 Hexachlorobutadien | 0.5 | 0.4 | 82.75 | 60-140 |
| | 73 Naphthalene | 0.5 | 0.5 | 94.38 | 60-140 |
| | 74 1,2,3-Trichloroben | 0.5 | 0.4 | 90.75 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 87.88 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 86.16 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 94.23 | 80-120 |

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Lab File ID: LFYB001DV.D Lab Sample ID: VBLKJ7

Date Analyzed: 03/28/96 Time Analyzed: 1006

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | LFBLFYD | LFBLFYD | LFY001QDV.D | 0938 |
| 02 | MW27ASH | 294450 | L294450I2V.D | 1337 |
| 03 | VSTD0005 | VSTD0005 | LFYB002DV.D | 1527 |
| 04 | | | | |
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COMMENTS:

5A

# VOLATILE ORGANIC INSTRUMENT PERFOPMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57342

Lab File ID: LFY001PV.D  BFB Injection Date: 03/25/96

Instrument ID: L  BFB Injection Time: 0951

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.7 |
| 75 | 30.0 - 80.0% of mass 95 | 45.3 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.3 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 61.0 |
| 175 | 5.0 - 9.0% of mass 174 | 4.4 ( 7.2)1 |
| 176 | 95.0 - 101.0% of mass 174 | 59.7 ( 97.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 ( 7.3)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD005 | VSTD005 | LFY005HV.D | 03/25/96 | 1226 |
| 02 | VSTD020 | VSTD020 | LFY020HV.D | 03/25/96 | 1300 |
| 03 | VSTD010 | VSTD010 | LFY010H2V.D | 03/25/96 | 1418 |
| 04 | VSTD030 | VSTD030 | LFY030H2V.D | 03/25/96 | 1517 |
| 05 | VSTD002 | VSTD002 | LFY002H3V.D | 03/25/96 | 1650 |
| 06 | | | | | |
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5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57342

Lab File ID: LFY007PV.D  BFB Injection Date: 03/28/96

Instrument ID: L  BFB Injection Time: 0815

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.7 |
| 75 | 30.0 - 80.0% of mass 95 | 42.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 62.2 |
| 175 | 5.0 - 9.0% of mass 174 | 4.6 ( 7.4)1 |
| 176 | 95.0 - 101.0% of mass 174 | 61.2 ( 98.4)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.9)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD010 | VSTD010 | LFY010DHV.D | 03/28/96 | 0826 |
| 02 | LFBLFYD | LFBLFYD | LFY001QDV.D | 03/28/96 | 0938 |
| 03 | VBLKJ7 | VBLKJ7 | LFYB001DV.D | 03/28/96 | 1006 |
| 04 | MW27ASH | 294450 | L294450I2V.D | 03/28/96 | 1337 |
| 05 | VSTD0005 | VSTD0005 | LFYB002DV.D | 03/28/96 | 1527 |
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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Instrument ID: L Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

LAB FILE ID: RRF2 =LFY002H3V.D RRF5 =LFY005HV.D
RRF10 =LFY010H2V.D RRF20 =LFY020HV.D RRF30 =LFY030H2V.D

| COMPOUND | RRF2 | RRF5 | RRF10 | RRF20 | RRF30 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | * 0.585 | 0.674 | 0.657 | 0.646 | 0.670 | 0.647 | 5.6* |
| Chloromethane | * 0.307 | 0.304 | 0.310 | 0.294 | 0.319 | 0.307 | 3.1* |
| Vinyl Chloride | * 0.293 | 0.342 | 0.337 | 0.331 | 0.357 | 0.332 | 7.2* |
| Bromomethane | * 0.233 | 0.244 | 0.231 | 0.212 | 0.226 | 0.229 | 5.2* |
| Chloroethane | * 0.176 | 0.194 | 0.140 | 0.111 | 0.121 | 0.149 | 23.8* |
| Trichlorofluoromethane | * 0.575 | 0.658 | 0.652 | 0.633 | 0.476 | 0.599 | 12.7* |
| Acetone | * 0.054 | 0.047 | 0.044 | 0.042 | 0.043 | 0.046 | 10.2* |
| 1,1-Dichloroethene | * 0.257 | 0.294 | 0.298 | 0.285 | 0.305 | 0.288 | 6.5* |
| trans-1,2-Dichloroethene | * 0.265 | 0.312 | 0.319 | 0.301 | 0.323 | 0.304 | 7.7* |
| Carbon Disulfide | * 0.819 | 0.926 | 0.923 | 0.904 | 0.956 | 0.906 | 5.7* |
| Methylene Chloride | * 0.263 | 0.286 | 0.278 | 0.265 | 0.292 | 0.277 | 4.5* |
| 1,1-Dichloroethane | * 0.525 | 0.582 | 0.570 | 0.549 | 0.595 | 0.564 | 4.9* |
| cis-1,2-Dichloroethene | * 0.299 | 0.343 | 0.343 | 0.329 | 0.357 | 0.334 | 6.6* |
| 2-Butanone | * 0.027 | 0.026 | 0.026 | 0.024 | 0.025 | 0.026 | 4.9* |
| 2,2-Dichloropropane | * 0.478 | 0.536 | 0.546 | 0.538 | 0.572 | 0.534 | 6.4* |
| Chloroform | * 0.546 | 0.626 | 0.605 | 0.594 | 0.637 | 0.602 | 5.9* |
| Bromochloromethane | * 0.210 | 0.235 | 0.228 | 0.220 | 0.242 | 0.227 | 5.6* |
| 1,1,1-Trichloroethane | * 0.481 | 0.575 | 0.564 | 0.558 | 0.598 | 0.555 | 8.0* |
| 1,1-Dichloropropene | * 0.432 | 0.487 | 0.486 | 0.483 | 0.510 | 0.479 | 6.0* |
| Carbon Tetrachloride | * 0.485 | 0.554 | 0.565 | 0.561 | 0.590 | 0.551 | 7.1* |
| 1,2-Dichloroethane | * 0.332 | 0.390 | 0.363 | 0.352 | 0.386 | 0.365 | 6.6* |
| Benzene | * 0.865 | 0.972 | 0.970 | 0.953 | 1.024 | 0.957 | 6.1* |
| Trichloroethene | * 0.357 | 0.395 | 0.406 | 0.394 | 0.417 | 0.394 | 5.8* |
| 1,2-Dichloropropane | * 0.365 | 0.417 | 0.401 | 0.386 | 0.420 | 0.398 | 5.7* |
| Bromodichloromethane | * 0.565 | 0.632 | 0.607 | 0.590 | 0.641 | 0.607 | 5.1* |
| Dibromomethane | * 0.269 | 0.319 | 0.304 | 0.292 | 0.317 | 0.300 | 6.9* |
| 4-Methyl-2-Pentanone | * 0.336 | 0.309 | 0.288 | 0.269 | 0.277 | 0.296 | 9.1* |
| cis-1,3-Dichloropropene | * 0.507 | 0.585 | 0.552 | 0.544 | 0.588 | 0.555 | 6.0* |
| Toluene | * 0.545 | 0.617 | 0.625 | 0.604 | 0.643 | 0.607 | 6.2* |
| trans-1,3-Dichloropropene | * 0.439 | 0.494 | 0.471 | 0.467 | 0.502 | 0.475 | 5.2* |
| 1,1,2-Trichloroethane | * 0.265 | 0.300 | 0.284 | 0.280 | 0.292 | 0.284 | 4.6* |
| 2-Hexanone | * 0.226 | 0.211 | 0.196 | 0.184 | 0.187 | 0.201 | 8.8* |
| 1,3-Dichloropropane | * 0.508 | 0.574 | 0.561 | 0.546 | 0.581 | 0.554 | 5.2* |
| Tetrachloroethene | * 0.421 | 0.483 | 0.501 | 0.495 | 0.522 | 0.484 | 7.9* |
| Dibromochloromethane | * 0.613 | 0.690 | 0.675 | 0.698 | 0.722 | 0.680 | 6.1* |
| 1,2-Dibromoethane | * 0.525 | 0.613 | 0.586 | 0.602 | 0.615 | 0.588 | 6.3* |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Instrument ID: L Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

LAB FILE ID: RRF2 =LFY002H3V.D RRF5 =LFY005HV.D
RRF10 =LFY010H2V.D RRF20 =LFY020HV.D RRF30 =LFY030H2V.D

| COMPOUND | | RRF2 | RRF5 | RRF10 | RRF20 | RRF30 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | * | 0.925 | 1.034 | 1.036 | 1.045 | 1.091 | 1.026 | 6.0* |
| 1,1,1,2-Tetrachloroethane | * | 0.461 | 0.517 | 0.507 | 0.534 | 0.551 | 0.514 | 6.6* |
| Ethylbenzene | * | 1.324 | 1.519 | 1.535 | 1.567 | 1.612 | 1.511 | 7.3* |
| Xylene (total) | * | 0.500 | 0.591 | 0.586 | 0.595 | 0.618 | 0.578 | 7.9* |
| Styrene | * | 0.857 | 0.984 | 0.981 | 0.986 | 1.028 | 0.967 | 6.7* |
| Bromoform | * | 0.450 | 0.460 | 0.447 | 0.469 | 0.482 | 0.462 | 3.1* |
| Isopropylbenzene | * | 1.485 | 1.685 | 1.719 | 1.757 | 1.807 | 1.691 | 7.3* |
| 1,1,2,2-Tetrachloroethane | * | 0.734 | 0.647 | 0.628 | 0.630 | 0.627 | 0.653 | 7.0* |
| 1,2,3-Trichloropropane | * | 0.492 | 0.468 | 0.438 | 0.441 | 0.434 | 0.455 | 5.4* |
| Bromobenzene | * | 0.502 | 0.549 | 0.538 | 0.543 | 0.568 | 0.540 | 4.4* |
| n-Propylbenzene | * | 0.393 | 0.457 | 0.475 | 0.483 | 0.501 | 0.462 | 9.0* |
| 2-Chlorotoluene | * | 0.419 | 0.441 | 0.459 | 0.458 | 0.474 | 0.450 | 4.7* |
| 1,3,5-Trimethylbenzene | * | 1.158 | 1.278 | 1.317 | 1.323 | 1.373 | 1.290 | 6.3* |
| 4-Chlorotoluene | * | 0.423 | 0.456 | 0.458 | 0.463 | 0.479 | 0.456 | 4.4* |
| tert-Butylbenzene | * | 1.338 | 1.451 | 1.511 | 1.512 | 1.573 | 1.477 | 6.0* |
| 1,2,4-Trimethylbenzene | * | 1.212 | 1.324 | 1.341 | 1.349 | 1.399 | 1.325 | 5.2* |
| sec-Butylbenzene | * | 1.757 | 1.911 | 1.980 | 1.996 | 2.071 | 1.943 | 6.1* |
| p-Isopropyltoluene | * | 1.472 | 1.600 | 1.659 | 1.667 | 1.741 | 1.628 | 6.2* |
| 1,3-Dichlorobenzene | * | 0.912 | 0.917 | 0.918 | 0.911 | 0.958 | 0.923 | 2.1* |
| 1,4-Dichlorobenzene | * | 0.935 | 0.943 | 0.940 | 0.941 | 0.973 | 0.946 | 1.6* |
| n-Butylbenzene | * | 1.356 | 1.368 | 1.432 | 1.428 | 1.510 | 1.419 | 4.3* |
| 1,2-Dichlorobenzene | * | 0.884 | 0.841 | 0.822 | 0.821 | 0.854 | 0.844 | 3.1* |
| 1,2-Dibromo-3-Chloropropane | * | 0.185 | 0.145 | 0.136 | 0.136 | 0.137 | 0.148 | 14.3* |
| 1,2,4-Trichlorobenzene | * | 0.796 | 0.684 | 0.707 | 0.692 | 0.752 | 0.726 | 6.4* |
| Hexachlorobutadiene | * | 0.496 | 0.442 | 0.513 | 0.482 | 0.536 | 0.494 | 7.1* |
| Naphthalene | * | 1.357 | 1.118 | 0.953 | 1.069 | 1.157 | 1.131 | 13.1* |
| 1,2,3-Trichlorobenzene | * | 0.736 | 0.595 | 0.631 | 0.598 | 0.666 | 0.645 | 9.0* |
| 1,2-Dichloroethane-d4 | * | 0.326 | 0.337 | 0.320 | 0.292 | 0.315 | 0.318 | 5.3* |
| Bromofluorobenzene | * | 0.812 | 0.817 | 0.811 | 0.781 | 0.816 | 0.807 | 1.8* |
| 1,2-Dichlorobenzene-d4 | * | 0.542 | 0.544 | 0.547 | 0.513 | 0.540 | 0.537 | 2.6* |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Instrument ID: L Calibration Date: 03/28/96 Time: 0826

Lab File ID: LFY010DHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.647 | 0.599 | 0.050 | 7.3 | 30.0 |
| Chloromethane | 0.307 | 0.325 | 0.192 | -5.8 | 30.0 |
| Vinyl Chloride | 0.332 | 0.371 | 0.050 | -11.8 | 30.0 |
| Bromomethane | 0.229 | 0.266 | 0.050 | -16.0 | 30.0 |
| Chloroethane | 0.149 | 0.169 | 0.050 | -13.4 | 30.0 |
| Trichlorofluoromethane | 0.599 | 0.719 | 0.050 | -20.0 | 30.0 |
| Acetone | 0.046 | 0.044 | 0.020 | 3.6 | 30.0 |
| 1,1-Dichloroethene | 0.288 | 0.328 | 0.050 | -13.9 | 30.0 |
| trans-1,2-Dichloroethene | 0.304 | 0.340 | 0.050 | -11.8 | 30.0 |
| Carbon Disulfide | 0.906 | 1.034 | 0.050 | -14.2 | 30.0 |
| Methylene Chloride | 0.277 | 0.320 | 0.050 | -15.8 | 30.0 |
| 1,1-Dichloroethane | 0.564 | 0.666 | 0.300 | -18.0 | 30.0 |
| cis-1,2-Dichloroethene | 0.334 | 0.374 | 0.050 | -12.0 | 30.0 |
| 2-Butanone | 0.026 | 0.023 | 0.020 | 11.2 | 30.0 |
| 2,2-Dichloropropane | 0.534 | 0.612 | 0.050 | -14.5 | 30.0 |
| Chloroform | 0.602 | 0.683 | 0.050 | -13.5 | 30.0 |
| Bromochloromethane | 0.227 | 0.255 | 0.050 | -12.6 | 30.0 |
| 1,1,1-Trichloroethane | 0.555 | 0.626 | 0.050 | -12.7 | 30.0 |
| 1,1-Dichloropropene | 0.479 | 0.563 | 0.050 | -17.4 | 30.0 |
| Carbon Tetrachloride | 0.551 | 0.618 | 0.050 | -12.2 | 30.0 |
| 1,2-Dichloroethane | 0.365 | 0.421 | 0.050 | -15.4 | 30.0 |
| Benzene | 0.957 | 1.117 | 0.050 | -16.7 | 30.0 |
| Trichloroethene | 0.394 | 0.449 | 0.050 | -14.1 | 30.0 |
| 1,2-Dichloropropane | 0.398 | 0.461 | 0.050 | -15.9 | 30.0 |
| Bromodichloromethane | 0.607 | 0.684 | 0.050 | -12.6 | 30.0 |
| Dibromomethane | 0.300 | 0.334 | 0.050 | -11.3 | 30.0 |
| 4-Methyl-2-Pentanone | 0.296 | 0.253 | 0.020 | 14.5 | 30.0 |
| cis-1,3-Dichloropropene | 0.555 | 0.644 | 0.050 | -16.0 | 30.0 |
| Toluene | 0.607 | 0.681 | 0.050 | -12.1 | 30.0 |
| trans-1,3-Dichloropropene | 0.475 | 0.540 | 0.050 | -13.7 | 30.0 |
| 1,1,2-Trichloroethane | 0.284 | 0.310 | 0.050 | -9.2 | 30.0 |
| 2-Hexanone | 0.201 | 0.165 | 0.020 | 18.0 | 30.0 |
| 1,3-Dichloropropane | 0.554 | 0.616 | 0.050 | -11.2 | 30.0 |
| Tetrachloroethene | 0.484 | 0.544 | 0.050 | -12.3 | 30.0 |
| Dibromochloromethane | 0.680 | 0.718 | 0.050 | -5.7 | 30.0 |
| 1,2-Dibromoethane | 0.588 | 0.605 | 0.050 | -2.9 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

7A-2
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57342

Instrument ID: L Calibration Date: 03/28/96 Time: 0826

Lab File ID: LFY010DHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Chlorobenzene | 1.026 | 1.079 | 0.300 | -5.1 | 30.0 |
| 1,1,1,2-Tetrachloroethane | 0.514 | 0.566 | 0.050 | -10.2 | 30.0 |
| Ethylbenzene | 1.511 | 1.626 | 0.050 | -7.6 | 30.0 |
| Xylene (total) | 0.578 | 0.637 | 0.050 | -10.3 | 30.0 |
| Styrene | 0.967 | 1.035 | 0.050 | -7.0 | 30.0 |
| Bromoform | 0.462 | 0.461 | 0.250 | 0.1 | 30.0 |
| Isopropylbenzene | 1.691 | 1.792 | 0.050 | -6.0 | 30.0 |
| 1,1,2,2-Tetrachloroethane | 0.653 | 0.601 | 0.300 | 7.9 | 30.0 |
| 1,2,3-Trichloropropane | 0.455 | 0.431 | 0.050 | 5.2 | 30.0 |
| Bromobenzene | 0.540 | 0.559 | 0.050 | -3.5 | 30.0 |
| n-Propylbenzene | 0.462 | 0.514 | 0.050 | -11.4 | 30.0 |
| 2-Chlorotoluene | 0.450 | 0.484 | 0.050 | -7.5 | 30.0 |
| 1,3,5-Trimethylbenzene | 1.290 | 1.380 | 0.050 | -7.0 | 30.0 |
| 4-Chlorotoluene | 0.456 | 0.482 | 0.050 | -5.8 | 30.0 |
| tert-Butylbenzene | 1.477 | 1.623 | 0.050 | -9.9 | 30.0 |
| 1,2,4-Trimethylbenzene | 1.325 | 1.436 | 0.050 | -8.4 | 30.0 |
| sec-Butylbenzene | 1.943 | 2.123 | 0.050 | -9.3 | 30.0 |
| p-Isopropyltoluene | 1.628 | 1.796 | 0.050 | -10.3 | 30.0 |
| 1,3-Dichlorobenzene | 0.923 | 0.977 | 0.050 | -5.8 | 30.0 |
| 1,4-Dichlorobenzene | 0.946 | 0.993 | 0.050 | -4.9 | 30.0 |
| n-Butylbenzene | 1.419 | 1.570 | 0.050 | -10.7 | 30.0 |
| 1,2-Dichlorobenzene | 0.844 | 0.888 | 0.050 | -5.2 | 30.0 |
| 1,2-Dibromo-3-Chloropropane | 0.148 | 0.131 | 0.020 | 11.6 | 30.0 |
| 1,2,4-Trichlorobenzene | 0.726 | 0.762 | 0.050 | -5.0 | 30.0 |
| Hexachlorobutadiene | 0.494 | 0.538 | 0.050 | -8.9 | 30.0 |
| Naphthalene | 1.131 | 1.169 | 0.050 | -3.4 | 30.0 |
| 1,2,3-Trichlorobenzene | 0.645 | 0.642 | 0.050 | 0.6 | 30.0 |
| 1,2-Dichloroethane-d4 | 0.318 | 0.372 | 0.050 | -17.0 | 30.0 |
| Bromofluorobenzene | 0.807 | 0.932 | 0.050 | -15.4 | 30.0 |
| 1,2-Dichlorobenzene-d4 | 0.537 | 0.578 | 0.050 | -7.5 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

8A

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57342

Lab File ID (Standard): LFY010DHV.D  Date Analyzed: 03/28/96

Instrument ID: L  Time Analyzed: 0826

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| | | IS1(FBZ) AREA | # | RT | # | IS2(CBZ) AREA | # | RT | # | IS3 AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 127305 | | 9.72 | | 112889 | | 15.99 | | 0 | | 0.00 | |
| | UPPER LIMIT | 254610 | | 10.22 | | 225778 | | 16.49 | | 0 | | 0.50 | |
| | LOWER LIMIT | 63652 | | 9.22 | | 56444 | | 15.49 | | 0 | | -0.50 | |
| | EPA SAMPLE No. | | | | | | | | | | | | |
| 01 | LFBLFYD | 138333 | | 9.73 | | 111858 | | 16.02 | | | | | |
| 02 | √BLKJ7 | 122928 | | 9.73 | | 100145 | | 16.02 | | | | | |
| 03 | MW27ASH | 135922 | | 9.73 | | 107773 | | 16.02 | | | | | |
| 04 | VSTD0005 | 129962 | | 9.73 | | 108799 | | 16.00 | | | | | |
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IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 = N/A

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

## 3. Sample Delivery Group No. 57371

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB31996

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: 294689

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294689V.D

Level: (low/med) LOW Date Received: 03/21/96

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 4 | J |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB31996

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: 294689

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294689V.D

Level: (low/med) LOW Date Received: 03/21/96

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

TB31996

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: 294689

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L294689V.D

Level: (low/med) LOW Date Received: 03/21/96

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.5 | U |
| 74-87-3 | Chloromethane | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 0.5 | U |
| 74-83-9 | Bromomethane | 0.5 | U |
| 75-00-3 | Chloroethane | 0.5 | U |
| 75-69-4 | Trichlorofluoromethane | 0.5 | U |
| 67-64-1 | Acetone | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.5 | U |
| 75-15-0 | Carbon Disulfide | 0.5 | U |
| 75-09-2 | Methylene Chloride | 0.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.5 | U |
| 78-93-3 | 2-Butanone | 5 | U |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | U |
| 67-66-3 | Chloroform | 0.5 | U |
| 74-97-5 | Bromochloromethane | 0.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.5 | U |
| 56-23-5 | Carbon Tetrachloride | 0.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.5 | U |
| 71-43-2 | Benzene | 0.5 | U |
| 79-01-6 | Trichloroethene | 0.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.5 | U |
| 75-27-4 | Bromodichloromethane | 0.5 | U |
| 74-95-3 | Dibromomethane | 0.5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 | U |
| 108-88-3 | Toluene | 0.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.5 | U |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.5 | U |
| 124-48-1 | Dibromochloromethane | 0.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.5 | U |
| 108-90-7 | Chlorobenzene | 0.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.5 | U |
| 100-41-4 | Ethylbenzene | 0.5 | U |
| 1330-20-7 | Xylene (total) | 0.5 | U |
| 100-42-5 | Styrene | 0.5 | U |
| 75-25-2 | Bromoform | 0.5 | U |
| 98-82-8 | Isopropylbenzene | 0.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | U |
| 108-86-1 | Bromobenzene | 0.5 | U |
| 103-65-1 | n-Propylbenzene | 0.5 | U |
| 95-49-8 | 2-Chlorotoluene | 0.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | U |
| 106-43-4 | 4-Chlorotoluene | 0.5 | U |
| 98-06-6 | tert-Butylbenzene | 0.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | U |
| 135-98-8 | sec-Butylbenzene | 0.5 | U |
| 99-87-6 | p-Isopropyltoluene | 0.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | U |
| 104-51-8 | n-Butylbenzene | 0.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: VBLKJ7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB001DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYD

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001QDV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.8 | |
| 74-87-3 | Chloromethane | 0.9 | |
| 75-01-4 | Vinyl Chloride | 0.8 | |
| 74-83-9 | Bromomethane | 1 | |
| 75-00-3 | Chloroethane | 1 | |
| 75-69-4 | Trichlorofluoromethane | 0.8 | |
| 67-64-1 | Acetone | 4 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.8 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.9 | |
| 75-15-0 | Carbon Disulfide | 0.9 | |
| 75-09-2 | Methylene Chloride | 0.8 | |
| 75-34-3 | 1,1-Dichloroethane | 0.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.9 | |
| 78-93-3 | 2-Butanone | 4 | J |
| 590-20-7 | 2,2-Dichloropropane | 1 | |
| 67-66-3 | Chloroform | 0.9 | |
| 74-97-5 | Bromochloromethane | 0.8 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.8 | |
| 563-58-6 | 1,1-Dichloropropene | 0.8 | |
| 56-23-5 | Carbon Tetrachloride | 0.8 | |
| 107-06-2 | 1,2-Dichloroethane | 0.8 | |
| 71-43-2 | Benzene | 1 | |
| 79-01-6 | Trichloroethene | 0.8 | |
| 78-87-5 | 1,2-Dichloropropane | 0.8 | |
| 75-27-4 | Bromodichloromethane | 0.8 | |
| 74-95-3 | Dibromomethane | 0.8 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.8 | |
| 108-88-3 | Toluene | 1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | 0.8 | |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 0.8 | |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFBLFYD

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: LFBLFYD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFY001QDV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.8 | |
| 124-48-1 | Dibromochloromethane | 0.9 | |
| 106-93-4 | 1,2-Dibromoethane | 0.9 | |
| 108-90-7 | Chlorobenzene | 0.9 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.9 | |
| 100-41-4 | Ethylbenzene | 1 | |
| 1330-20-7 | Xylene (total) | 3 | |
| 100-42-5 | Styrene | 0.9 | |
| 75-25-2 | Bromoform | 0.8 | |
| 98-82-8 | Isopropylbenzene | 1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.9 | |
| 96-18-4 | 1,2,3-Trichloropropane | 1 | |
| 108-86-1 | Bromobenzene | 0.9 | |
| 103-65-1 | n-Propylbenzene | 0.9 | |
| 95-49-8 | 2-Chlorotoluene | 0.9 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1 | |
| 106-43-4 | 4-Chlorotoluene | 0.9 | |
| 98-06-6 | tert-Butylbenzene | 0.9 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1 | |
| 135-98-8 | sec-Butylbenzene | 0.9 | |
| 99-87-6 | p-Isopropyltoluene | 0.9 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.9 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | |
| 104-51-8 | n-Butylbenzene | 1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.9 | |
| 87-68-3 | Hexachlorobutadiene | 0.9 | |
| 91-20-3 | Naphthalene | 1 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | |

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.4 | J |
| 74-87-3 | Chloromethane | 0.5 | |
| 75-01-4 | Vinyl Chloride | 0.4 | J |
| 74-83-9 | Bromomethane | 0.6 | |
| 75-00-3 | Chloroethane | 0.5 | |
| 75-69-4 | Trichlorofluoromethane | 0.4 | J |
| 67-64-1 | Acetone | 5 | |
| 75-35-4 | 1,1-Dichloroethene | 0.4 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.4 | J |
| 75-15-0 | Carbon Disulfide | 0.4 | J |
| 75-09-2 | Methylene Chloride | 0.4 | J |
| 75-34-3 | 1,1-Dichloroethane | 0.4 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 0.4 | J |
| 78-93-3 | 2-Butanone | 4 | J |
| 590-20-7 | 2,2-Dichloropropane | 0.5 | |
| 67-66-3 | Chloroform | 0.4 | J |
| 74-97-5 | Bromochloromethane | 0.4 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.4 | J |
| 563-58-6 | 1,1-Dichloropropene | 0.4 | J |
| 56-23-5 | Carbon Tetrachloride | 0.4 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.4 | J |
| 71-43-2 | Benzene | 0.5 | |
| 79-01-6 | Trichloroethene | 0.4 | J |
| 78-87-5 | 1,2-Dichloropropane | 0.4 | J |
| 75-27-4 | Bromodichloromethane | 0.4 | J |
| 74-95-3 | Dibromomethane | 0.4 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.4 | J |
| 108-88-3 | Toluene | 0.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.4 | J |
| 79-00-5 | 1,1,2-Trichloroethane | 0.4 | J |
| 591-78-6 | 2-Hexanone | 5 | |
| 142-28-9 | 1,3-Dichloropropane | 0.4 | J |

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSTD0005

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Matrix: (soil/water) WATER Lab Sample ID: VSTD0005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: LFYB002DV.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 03/28/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.4 | J |
| 124-48-1 | Dibromochloromethane | 0.4 | J |
| 106-93-4 | 1,2-Dibromoethane | 0.4 | J |
| 108-90-7 | Chlorobenzene | 0.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.4 | J |
| 100-41-4 | Ethylbenzene | 0.5 | |
| 1330-20-7 | Xylene (total) | 2 | |
| 100-42-5 | Styrene | 0.4 | J |
| 75-25-2 | Bromoform | 0.3 | J |
| 98-82-8 | Isopropylbenzene | 0.5 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.5 | |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | |
| 108-86-1 | Bromobenzene | 0.4 | J |
| 103-65-1 | n-Propylbenzene | 0.4 | J |
| 95-49-8 | 2-Chlorotoluene | 0.4 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.5 | |
| 106-43-4 | 4-Chlorotoluene | 0.4 | J |
| 98-06-6 | tert-Butylbenzene | 0.4 | J |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.5 | |
| 135-98-8 | sec-Butylbenzene | 0.4 | J |
| 99-87-6 | p-Isopropyltoluene | 0.4 | J |
| 541-73-1 | 1,3-Dichlorobenzene | 0.4 | J |
| 106-46-7 | 1,4-Dichlorobenzene | 0.5 | |
| 104-51-8 | n-Butylbenzene | 0.5 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.5 | |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.6 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.4 | J |
| 87-68-3 | Hexachlorobutadiene | 0.4 | J |
| 91-20-3 | Naphthalene | 0.5 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.4 | J |

2A

# WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57371

| | EPA SAMPLE NO. | SMC1 (DCE) # | SMC2 (BFB) # | SMC3 (DCB) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | LFBLFYD | 86 | 93 | 95 | | 0 |
| 02 | VBLKJ7 | 87 | 90 | 94 | | 0 |
| 03 | TB31996 | 86 | 89 | 97 | | 0 |
| 04 | VSTD0005 | 88 | 86 | 94 | | 0 |
| 05 | | | | | | |
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| | QC LIMITS |
|---|---|
| SMC1 (DCE) = 1,2-Dichloroethane-d4 | (83-143) |
| SMC2 (BFB) = Bromofluorobenzene | (86-115) |
| SMC3 (DCB) = 1,2-Dichlorobenzene-d4 | (80-120) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Inchcape Environmental

RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: LFBLFYD
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs2.spk
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m
Misc Info: 100%

Client SDG: 57371
Fraction: VOA
Client Smp ID: LFBLFYD
Operator: CMP
SampleType: MS
Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 1 | 0.8 | 78.40 | 60-140 |
| 2 Chloromethane | 1 | 0.9 | 86.99 | 60-140 |
| 3 Vinyl Chloride | 1 | 0.8 | 78.11 | 60-140 |
| 4 Bromomethane | 1 | 1.0 | 99.48 | 60-140 |
| 5 Chloroethane | 1 | 1 | 115.07 | 60-140 |
| 6 Trichlorofluoromet | 1 | 0.8 | 78.31 | 60-140 |
| 7 1,1-Dichloroethene | 1 | 0.8 | 83.54 | 60-140 |
| 8 Acetone | 5 | 4 | 89.35 | 60-140 |
| 9 Carbon Disulfide | 1 | 0.9 | 88.80 | 60-140 |
| 10 Methylene Chloride | 1 | 0.8 | 84.34 | 60-140 |
| 11 trans-1,2-Dichloro | 1 | 0.9 | 90.96 | 60-140 |
| 13 1,1-Dichloroethane | 1 | 0.9 | 87.63 | 60-140 |
| 14 2,2-Dichloropropan | 1 | 1 | 105.41 | 60-140 |
| 15 cis-1,2-Dichloroet | 1 | 0.9 | 86.83 | 60-140 |
| 16 2-Butanone | 5 | 4 | 90.38 | 60-140 |
| 17 Bromochloromethane | 1 | 0.8 | 85.26 | 60-140 |
| 19 Chloroform | 1 | 0.9 | 88.51 | 60-140 |
| 20 1,1,1-Trichloroeth | 1 | 0.8 | 83.67 | 60-140 |
| 21 Carbon Tetrachlori | 1 | 0.8 | 78.60 | 60-140 |
| 22 1,1-Dichloropropen | 1 | 0.8 | 81.50 | 60-140 |
| 24 Benzene | 1 | 1.0 | 99.94 | 60-140 |
| 25 1,2-Dichloroethane | 1 | 0.8 | 81.32 | 60-140 |
| 27 Trichloroethene | 1 | 0.8 | 83.03 | 60-140 |
| 28 1,2-Dichloropropan | 1 | 0.8 | 82.85 | 60-140 |
| 29 Dibromomethane | 1 | 0.8 | 81.99 | 60-140 |
| 31 Bromodichlorometha | 1 | 0.8 | 82.51 | 60-140 |
| 32 cis-1,3-Dichloropr | 1 | 0.8 | 83.77 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 5 | 96.39 | 60-140 |
| 34 Toluene | 1 | 1.0 | 99.69 | 60-140 |
| 35 trans-1,3-Dichloro | 1 | 0.8 | 83.03 | 60-140 |
| 36 1,1,2-Trichloroeth | 1 | 0.8 | 84.90 | 60-140 |
| 37 Tetrachloroethene | 1 | 0.8 | 84.61 | 60-140 |
| 38 1,3-Dichloropropan | 1 | 0.8 | 83.97 | 60-140 |
| 39 2-Hexanone | 5 | 5 | 99.07 | 60-140 |
| 40 Dibromochlorometha | 1 | 0.9 | 88.24 | 60-140 |
| 41 1,2-Dibromoethane | 1 | 0.9 | 86.98 | 60-140 |

Inchcape Environmental

RECOVERY REPORT

Client Name: ENGSC2 Client SDG: 57371
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: LFBLFYD Client Smp ID: LFBLFYD
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: MS
SpikeList File: lfbver3ketcs2.spk Quant Type: ISTD
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 43 | Chlorobenzene | 1 | 0.9 | 94.37 | 60-140 |
| 44 | 1,1,1,2-Tetrachlor | 1 | 0.9 | 87.26 | 60-140 |
| 45 | Ethylbenzene | 1 | 1.0 | 97.32 | 60-140 |
| 46 | m- & p-Xylene | 2 | 2 | 100.93 | 60-140 |
| 47 | o-Xylene | 1 | 1.0 | 97.94 | 60-140 |
| M 48 | Xylene (total) | 3 | 3 | 102.61 | 60-140 |
| 49 | Styrene | 1 | 0.9 | 91.37 | 60-140 |
| 50 | Bromoform | 1 | 0.8 | 82.15 | 60-140 |
| 51 | Isopropylbenzene | 1 | 1.0 | 95.20 | 60-140 |
| 53 | Bromobenzene | 1 | 0.9 | 86.12 | 60-140 |
| 54 | 1,1,2,2-Tetrachlor | 1 | 0.9 | 92.13 | 60-140 |
| 55 | 1,2,3-Trichloropro | 1 | 1.0 | 95.25 | 60-140 |
| 56 | n-Propylbenzene | 1 | 0.9 | 88.05 | 60-140 |
| 57 | 2-Chlorotoluene | 1 | 0.9 | 88.81 | 60-140 |
| 58 | 4-Chlorotoluene | 1 | 0.9 | 89.07 | 60-140 |
| 59 | 1,3,5-Trimethylben | 1 | 1.0 | 96.41 | 60-140 |
| 60 | tert-Butylbenzene | 1 | 0.9 | 91.48 | 60-140 |
| 61 | 1,2,4-Trimethylben | 1 | 1.0 | 98.53 | 60-140 |
| 62 | sec-Butylbenzene | 1 | 0.9 | 91.74 | 60-140 |
| 63 | 1,3-Dichlorobenzen | 1 | 0.9 | 94.06 | 60-140 |
| 65 | p-Isopropyltoluene | 1 | 0.9 | 91.67 | 60-140 |
| 66 | 1,4-Dichlorobenzen | 1 | 1.0 | 96.50 | 60-140 |
| 68 | 1,2-Dichlorobenzen | 1 | 1.0 | 97.58 | 60-140 |
| 69 | n-Butylbenzene | 1 | 1.0 | 95.23 | 60-140 |
| 70 | 1,2-Dibromo-3-Chlo | 1 | 1 | 112.96 | 60-140 |
| 71 | 1,2,4-Trichloroben | 1 | 0.9 | 92.24 | 60-140 |
| 72 | Hexachlorobutadien | 1 | 0.9 | 93.39 | 60-140 |
| 73 | Naphthalene | 1 | 1.0 | 96.48 | 60-140 |
| 74 | 1,2,3-Trichloroben | 1 | 1.0 | 97.55 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ 23 | 1,2-Dichloroethane | 2 | 2 | 86.26 | 83-143 |
| $ 52 | Bromofluorobenzene | 2 | 2 | 93.11 | 86-115 |
| $ 67 | 1,2-Dichlorobenzen | 2 | 2 | 95.20 | 80-120 |

Data File: /chem/L.i/LFYD_524.2.b/LFYB002DV.d
Report Date: 19-Apr-1996 09:46

Inchcape Environmental

RECOVERY REPORT

Client Name: ENGSC2
Sample Matrix: LIQUID
Lab Smp Id: VSTD0005
Level: LOW
Data Type: MS DATA
SpikeList File: lfbver3ketcs20_5.spk
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m
Misc Info: 100%

Client SDG: 57371
Fraction: VOA
Client Smp ID: VSTD0005
Operator: CMP
SampleType: MS
Quant Type: ISTD

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 1 Dichlorodifluorome | 0.5 | 0.4 | 77.49 | 60-140 |
| 2 Chloromethane | 0.5 | 0.5 | 93.25 | 60-140 |
| 3 Vinyl Chloride | 0.5 | 0.4 | 72.58 | 60-140 |
| 4 Bromomethane | 0.5 | 0.6 | 118.46 | 60-140 |
| 5 Chloroethane | 0.5 | 0.5 | 98.43 | 60-140 |
| 6 Trichlorofluoromet | 0.5 | 0.4 | 77.18 | 60-140 |
| 7 1,1-Dichloroethene | 0.5 | 0.4 | 81.37 | 60-140 |
| 8 Acetone | 5 | 5 | 104.45 | 60-140 |
| 9 Carbon Disulfide | 0.5 | 0.4 | 78.96 | 60-140 |
| 10 Methylene Chloride | 0.5 | 0.4 | 87.19 | 60-140 |
| 11 trans-1,2-Dichloro | 0.5 | 0.4 | 85.49 | 60-140 |
| 13 1,1-Dichloroethane | 0.5 | 0.4 | 89.39 | 60-140 |
| 14 2,2-Dichloropropan | 0.5 | 0.5 | 106.49 | 60-140 |
| 15 cis-1,2-Dichloroet | 0.5 | 0.4 | 82.59 | 60-140 |
| 16 2-Butanone | 5 | 4 | 87.73 | 60-140 |
| 17 Bromochloromethane | 0.5 | 0.4 | 79.86 | 60-140 |
| 19 Chloroform | 0.5 | 0.4 | 86.11 | 60-140 |
| 20 1,1,1-Trichloroeth | 0.5 | 0.4 | 83.88 | 60-140 |
| 21 Carbon Tetrachlori | 0.5 | 0.4 | 75.60 | 60-140 |
| 22 1,1-Dichloropropen | 0.5 | 0.4 | 77.56 | 60-140 |
| 24 Benzene | 0.5 | 0.5 | 98.64 | 60-140 |
| 25 1,2-Dichloroethane | 0.5 | 0.4 | 81.92 | 60-140 |
| 27 Trichloroethene | 0.5 | 0.4 | 87.80 | 60-140 |
| 28 1,2-Dichloropropan | 0.5 | 0.4 | 85.38 | 60-140 |
| 29 Dibromomethane | 0.5 | 0.4 | 77.67 | 60-140 |
| 31 Bromodichlorometha | 0.5 | 0.4 | 80.20 | 60-140 |
| 32 cis-1,3-Dichloropr | 0.5 | 0.4 | 81.12 | 60-140 |
| 33 4-Methyl-2-Pentano | 5 | 5 | 96.11 | 60-140 |
| 34 Toluene | 0.5 | 0.6 | 111.21 | 60-140 |
| 35 trans-1,3-Dichloro | 0.5 | 0.4 | 74.26 | 60-140 |
| 36 1,1,2-Trichloroeth | 0.5 | 0.4 | 90.49 | 60-140 |
| 37 Tetrachloroethene | 0.5 | 0.4 | 80.26 | 60-140 |
| 38 1,3-Dichloropropan | 0.5 | 0.4 | 88.00 | 60-140 |
| 39 2-Hexanone | 5 | 5 | 96.68 | 60-140 |
| 40 Dibromochlorometha | 0.5 | 0.4 | 76.61 | 60-140 |
| 41 1,2-Dibromoethane | 0.5 | 0.4 | 88.33 | 60-140 |

Inchcape Environmental

RECOVERY REPORT

Client Name: ENGSC2 Client SDG: 57371
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: VSTD0005 Client Smp ID: VSTD0005
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: MS
SpikeList File: lfbver3ketcs20_5.spk Quant Type: ISTD
Method File: /chem/L.i/LFYD_524.2.b/524_2MOD1.m
Misc Info: 100%

| | SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 43 Chlorobenzene | 0.5 | 0.5 | 93.56 | 60-140 |
| | 44 1,1,1,2-Tetrachlor | 0.5 | 0.4 | 83.19 | 60-140 |
| | 45 Ethylbenzene | 0.5 | 0.5 | 100.20 | 60-140 |
| | 46 m- & p-Xylene | 1 | 1 | 105.42 | 60-140 |
| | 47 o-Xylene | 0.5 | 0.5 | 100.97 | 60-140 |
| M | 48 Xylene (total) | 2 | 2 | 106.74 | 60-140 |
| | 49 Styrene | 0.5 | 0.4 | 89.89 | 60-140 |
| | 50 Bromoform | 0.5 | 0.3 | 67.27 | 60-140 |
| | 51 Isopropylbenzene | 0.5 | 0.5 | 92.44 | 60-140 |
| | 53 Bromobenzene | 0.5 | 0.4 | 85.22 | 60-140 |
| | 54 1,1,2,2-Tetrachlor | 0.5 | 0.5 | 95.56 | 60-140 |
| | 55 1,2,3-Trichloropro | 0.5 | 0.5 | 96.90 | 60-140 |
| | 56 n-Propylbenzene | 0.5 | 0.4 | 85.05 | 60-140 |
| | 57 2-Chlorotoluene | 0.5 | 0.4 | 85.88 | 60-140 |
| | 58 4-Chlorotoluene | 0.5 | 0.4 | 90.17 | 60-140 |
| | 59 1,3,5-Trimethylben | 0.5 | 0.5 | 93.51 | 60-140 |
| | 60 tert-Butylbenzene | 0.5 | 0.4 | 85.48 | 60-140 |
| | 61 1,2,4-Trimethylben | 0.5 | 0.5 | 103.06 | 60-140 |
| | 62 sec-Butylbenzene | 0.5 | 0.4 | 88.37 | 60-140 |
| | 63 1,3-Dichlorobenzen | 0.5 | 0.4 | 89.15 | 60-140 |
| | 65 p-Isopropyltoluene | 0.5 | 0.4 | 85.69 | 60-140 |
| | 66 1,4-Dichlorobenzen | 0.5 | 0.5 | 95.43 | 60-140 |
| | 68 1,2-Dichlorobenzen | 0.5 | 0.5 | 95.85 | 60-140 |
| | 69 n-Butylbenzene | 0.5 | 0.5 | 92.31 | 60-140 |
| | 70 1,2-Dibromo-3-Chlo | 0.5 | 0.6 | 116.18 | 60-140 |
| | 71 1,2,4-Trichloroben | 0.5 | 0.4 | 91.88 | 60-140 |
| | 72 Hexachlorobutadien | 0.5 | 0.4 | 82.75 | 60-140 |
| | 73 Naphthalene | 0.5 | 0.5 | 94.38 | 60-140 |
| | 74 1,2,3-Trichloroben | 0.5 | 0.4 | 90.75 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 23 1,2-Dichloroethane | 2 | 2 | 87.88 | 83-143 |
| $ | 52 Bromofluorobenzene | 2 | 2 | 86.16 | 86-115 |
| $ | 67 1,2-Dichlorobenzen | 2 | 2 | 94.23 | 80-120 |

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKJ7

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Lab File ID: LFYB001DV.D Lab Sample ID: VBLKJ7

Date Analyzed: 03/28/96 Time Analyzed: 1006

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | LFBLFYD | LFBLFYD | LFY001QDV.D | 0938 |
| 02 | TB31996 | 294689 | L294689V.D | 1303 |
| 03 | VSTD0005 | VSTD0005 | LFYB002DV.D | 1527 |
| 04 | | | | |
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COMMENTS:

5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57371

Lab File ID: LFY001PV.D  BFB Injection Date: 03/25/96

Instrument ID: L  BFB Injection Time: 0951

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.7 |
| 75 | 30.0 - 80.0% of mass 95 | 45.3 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.3 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 61.0 |
| 175 | 5.0 - 9.0% of mass 174 | 4.4 ( 7.2)1 |
| 176 | 95.0 - 101.0% of mass 174 | 59.7 ( 97.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 ( 7.3)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD005 | VSTD005 | LFY005HV.D | 03/25/96 | 1226 |
| 02 | VSTD020 | VSTD020 | LFY020HV.D | 03/25/96 | 1300 |
| 03 | VSTD010 | VSTD010 | LFY010H2V.D | 03/25/96 | 1418 |
| 04 | VSTD030 | VSTD030 | LFY030H2V.D | 03/25/96 | 1517 |
| 05 | VSTD002 | VSTD002 | LFY002H3V.D | 03/25/96 | 1650 |
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5A

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: INCHCAPE ENVIRONMENTAL  Contract: 93206

Lab Code: INCHVT  Case No.: OBASH  SAS No.:  SDG No.: 57371

Lab File ID: LFY007PV.D  BFB Injection Date: 03/28/96

Instrument ID: L  BFB Injection Time: 0815

GC Column:CAP  ID: 0.53 (mm)  Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.7 |
| 75 | 30.0 - 80.0% of mass 95 | 42.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0)1 |
| 174 | Greater than 50.0 of mass 95 | 62.2 |
| 175 | 5.0 - 9.0% of mass 174 | 4.6 ( 7.4)1 |
| 176 | 95.0 - 101.0% of mass 174 | 61.2 ( 98.4)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.9)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|---|
| 01 | VSTD010 | VSTD010 | LFY010DHV.D | 03/28/96 | 0826 |
| 02 | LFBLFYD | LFBLFYD | LFY001QDV.D | 03/28/96 | 0938 |
| 03 | VBLKJ7 | VBLKJ7 | LFYB001DV.D | 03/28/96 | 1006 |
| 04 | TB31996 | 294689 | L294689V.D | 03/28/96 | 1303 |
| 05 | VSTD0005 | VSTD0005 | LFYB002DV.D | 03/28/96 | 1527 |
| 06 | | | | | |
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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Instrument ID: L Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

LAB FILE ID: RRF2 =LFY002H3V.D RRF5 =LFY005HV.D
RRF10 =LFY010H2V.D RRF20 =LFY020HV.D RRF30 =LFY030H2V.D

| COMPOUND | RRF2 | RRF5 | RRF10 | RRF20 | RRF30 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane * | 0.585 | 0.674 | 0.657 | 0.646 | 0.670 | 0.647 | 5.6* |
| Chloromethane * | 0.307 | 0.304 | 0.310 | 0.294 | 0.319 | 0.307 | 3.1* |
| Vinyl Chloride * | 0.293 | 0.342 | 0.337 | 0.331 | 0.357 | 0.332 | 7.2* |
| Bromomethane * | 0.233 | 0.244 | 0.231 | 0.212 | 0.226 | 0.229 | 5.2* |
| Chloroethane * | 0.176 | 0.194 | 0.140 | 0.111 | 0.121 | 0.149 | 23.8* |
| Trichlorofluoromethane * | 0.575 | 0.658 | 0.652 | 0.633 | 0.476 | 0.599 | 12.7* |
| Acetone * | 0.054 | 0.047 | 0.044 | 0.042 | 0.043 | 0.046 | 10.2* |
| 1,1-Dichloroethene * | 0.257 | 0.294 | 0.298 | 0.285 | 0.305 | 0.288 | 6.5* |
| trans-1,2-Dichloroethene * | 0.265 | 0.312 | 0.319 | 0.301 | 0.323 | 0.304 | 7.7* |
| Carbon Disulfide * | 0.819 | 0.926 | 0.923 | 0.904 | 0.956 | 0.906 | 5.7* |
| Methylene Chloride * | 0.263 | 0.286 | 0.278 | 0.265 | 0.292 | 0.277 | 4.5* |
| 1,1-Dichloroethane * | 0.525 | 0.582 | 0.570 | 0.549 | 0.595 | 0.564 | 4.9* |
| cis-1,2-Dichloroethene * | 0.299 | 0.343 | 0.343 | 0.329 | 0.357 | 0.334 | 6.6* |
| 2-Butanone * | 0.027 | 0.026 | 0.026 | 0.024 | 0.025 | 0.026 | 4.9* |
| 2,2-Dichloropropane * | 0.478 | 0.536 | 0.546 | 0.538 | 0.572 | 0.534 | 6.4* |
| Chloroform * | 0.546 | 0.626 | 0.605 | 0.594 | 0.637 | 0.602 | 5.9* |
| Bromochloromethane * | 0.210 | 0.235 | 0.228 | 0.220 | 0.242 | 0.227 | 5.6* |
| 1,1,1-Trichloroethane * | 0.481 | 0.575 | 0.564 | 0.558 | 0.598 | 0.555 | 8.0* |
| 1,1-Dichloropropene * | 0.432 | 0.487 | 0.486 | 0.483 | 0.510 | 0.479 | 6.0* |
| Carbon Tetrachloride * | 0.485 | 0.554 | 0.565 | 0.561 | 0.590 | 0.551 | 7.1* |
| 1,2-Dichloroethane * | 0.332 | 0.390 | 0.363 | 0.352 | 0.386 | 0.365 | 6.6* |
| Benzene * | 0.865 | 0.972 | 0.970 | 0.953 | 1.024 | 0.957 | 6.1* |
| Trichloroethene * | 0.357 | 0.395 | 0.406 | 0.394 | 0.417 | 0.394 | 5.8* |
| 1,2-Dichloropropane * | 0.365 | 0.417 | 0.401 | 0.386 | 0.420 | 0.398 | 5.7* |
| Bromodichloromethane * | 0.565 | 0.632 | 0.607 | 0.590 | 0.641 | 0.607 | 5.1* |
| Dibromomethane * | 0.269 | 0.319 | 0.304 | 0.292 | 0.317 | 0.300 | 6.9* |
| 4-Methyl-2-Pentanone * | 0.336 | 0.309 | 0.288 | 0.269 | 0.277 | 0.296 | 9.1* |
| cis-1,3-Dichloropropene * | 0.507 | 0.585 | 0.552 | 0.544 | 0.588 | 0.555 | 6.0* |
| Toluene * | 0.545 | 0.617 | 0.625 | 0.604 | 0.643 | 0.607 | 6.2* |
| trans-1,3-Dichloropropene * | 0.439 | 0.494 | 0.471 | 0.467 | 0.502 | 0.475 | 5.2* |
| 1,1,2-Trichloroethane * | 0.265 | 0.300 | 0.284 | 0.280 | 0.292 | 0.284 | 4.6* |
| 2-Hexanone * | 0.226 | 0.211 | 0.196 | 0.184 | 0.187 | 0.201 | 8.8* |
| 1,3-Dichloropropane * | 0.508 | 0.574 | 0.561 | 0.546 | 0.581 | 0.554 | 5.2* |
| Tetrachloroethene * | 0.421 | 0.483 | 0.501 | 0.495 | 0.522 | 0.484 | 7.9* |
| Dibromochloromethane * | 0.613 | 0.690 | 0.675 | 0.698 | 0.722 | 0.680 | 6.1* |
| 1,2-Dibromoethane * | 0.525 | 0.613 | 0.586 | 0.602 | 0.615 | 0.588 | 6.3* |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Instrument ID: L Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

LAB FILE ID: RRF2 =LFY002H3V.D RRF5 =LFY005HV.D
RRF10 =LFY010H2V.D RRF20 =LFY020HV.D RRF30 =LFY030H2V.D

| COMPOUND | | RRF2 | RRF5 | RRF10 | RRF20 | RRF30 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | * | 0.925 | 1.034 | 1.036 | 1.045 | 1.091 | 1.026 | 6.0* |
| 1,1,1,2-Tetrachloroethane | * | 0.461 | 0.517 | 0.507 | 0.534 | 0.551 | 0.514 | 6.6* |
| Ethylbenzene | * | 1.324 | 1.519 | 1.535 | 1.567 | 1.612 | 1.511 | 7.3* |
| Xylene (total) | * | 0.500 | 0.591 | 0.586 | 0.595 | 0.618 | 0.578 | 7.9* |
| Styrene | * | 0.857 | 0.984 | 0.981 | 0.986 | 1.028 | 0.967 | 6.7* |
| Bromoform | * | 0.450 | 0.460 | 0.447 | 0.469 | 0.482 | 0.462 | 3.1* |
| Isopropylbenzene | * | 1.485 | 1.685 | 1.719 | 1.757 | 1.807 | 1.691 | 7.3* |
| 1,1,2,2-Tetrachloroethane | * | 0.734 | 0.647 | 0.628 | 0.630 | 0.627 | 0.653 | 7.0* |
| 1,2,3-Trichloropropane | * | 0.492 | 0.468 | 0.438 | 0.441 | 0.434 | 0.455 | 5.4* |
| Bromobenzene | * | 0.502 | 0.549 | 0.538 | 0.543 | 0.568 | 0.540 | 4.4* |
| n-Propylbenzene | * | 0.393 | 0.457 | 0.475 | 0.483 | 0.501 | 0.462 | 9.0* |
| 2-Chlorotoluene | * | 0.419 | 0.441 | 0.459 | 0.458 | 0.474 | 0.450 | 4.7* |
| 1,3,5-Trimethylbenzene | * | 1.158 | 1.278 | 1.317 | 1.323 | 1.373 | 1.290 | 6.3* |
| 4-Chlorotoluene | * | 0.423 | 0.456 | 0.458 | 0.463 | 0.479 | 0.456 | 4.4* |
| tert-Butylbenzene | * | 1.338 | 1.451 | 1.511 | 1.512 | 1.573 | 1.477 | 6.0* |
| 1,2,4-Trimethylbenzene | * | 1.212 | 1.324 | 1.341 | 1.349 | 1.399 | 1.325 | 5.2* |
| sec-Butylbenzene | * | 1.757 | 1.911 | 1.980 | 1.996 | 2.071 | 1.943 | 6.1* |
| p-Isopropyltoluene | * | 1.472 | 1.600 | 1.659 | 1.667 | 1.741 | 1.628 | 6.2* |
| 1,3-Dichlorobenzene | * | 0.912 | 0.917 | 0.918 | 0.911 | 0.958 | 0.923 | 2.1* |
| 1,4-Dichlorobenzene | * | 0.935 | 0.943 | 0.940 | 0.941 | 0.973 | 0.946 | 1.6* |
| n-Butylbenzene | * | 1.356 | 1.368 | 1.432 | 1.428 | 1.510 | 1.419 | 4.3* |
| 1,2-Dichlorobenzene | * | 0.884 | 0.841 | 0.822 | 0.821 | 0.854 | 0.844 | 3.1* |
| 1,2-Dibromo-3-Chloropropane | * | 0.185 | 0.145 | 0.136 | 0.136 | 0.137 | 0.148 | 14.3* |
| 1,2,4-Trichlorobenzene | * | 0.796 | 0.684 | 0.707 | 0.692 | 0.752 | 0.726 | 6.4* |
| Hexachlorobutadiene | * | 0.496 | 0.442 | 0.513 | 0.482 | 0.536 | 0.494 | 7.1* |
| Naphthalene | * | 1.357 | 1.118 | 0.953 | 1.069 | 1.157 | 1.131 | 13.1* |
| 1,2,3-Trichlorobenzene | * | 0.736 | 0.595 | 0.631 | 0.598 | 0.666 | 0.645 | 9.0* |
| 1,2-Dichloroethane-d4 | * | 0.326 | 0.337 | 0.320 | 0.292 | 0.315 | 0.318 | 5.3* |
| Bromofluorobenzene | * | 0.812 | 0.817 | 0.811 | 0.781 | 0.816 | 0.807 | 1.8* |
| 1,2-Dichlorobenzene-d4 | * | 0.542 | 0.544 | 0.547 | 0.513 | 0.540 | 0.537 | 2.6* |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Instrument ID: L Calibration Date: 03/28/96 Time: 0826

Lab File ID: LFY010DHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.647 | 0.599 | 0.050 | 7.3 | 30.0 |
| Chloromethane | 0.307 | 0.325 | 0.192 | -5.8 | 30.0 |
| Vinyl Chloride | 0.332 | 0.371 | 0.050 | -11.8 | 30.0 |
| Bromomethane | 0.229 | 0.266 | 0.050 | -16.0 | 30.0 |
| Chloroethane | 0.149 | 0.169 | 0.050 | -13.4 | 30.0 |
| Trichlorofluoromethane | 0.599 | 0.719 | 0.050 | -20.0 | 30.0 |
| Acetone | 0.046 | 0.044 | 0.020 | 3.6 | 30.0 |
| 1,1-Dichloroethene | 0.288 | 0.328 | 0.050 | -13.9 | 30.0 |
| trans-1,2-Dichloroethene | 0.304 | 0.340 | 0.050 | -11.8 | 30.0 |
| Carbon Disulfide | 0.906 | 1.034 | 0.050 | -14.2 | 30.0 |
| Methylene Chloride | 0.277 | 0.320 | 0.050 | -15.8 | 30.0 |
| 1,1-Dichloroethane | 0.564 | 0.666 | 0.300 | -18.0 | 30.0 |
| cis-1,2-Dichloroethene | 0.334 | 0.374 | 0.050 | -12.0 | 30.0 |
| 2-Butanone | 0.026 | 0.023 | 0.020 | 11.2 | 30.0 |
| 2,2-Dichloropropane | 0.534 | 0.612 | 0.050 | -14.5 | 30.0 |
| Chloroform | 0.602 | 0.683 | 0.050 | -13.5 | 30.0 |
| Bromochloromethane | 0.227 | 0.255 | 0.050 | -12.6 | 30.0 |
| 1,1,1-Trichloroethane | 0.555 | 0.626 | 0.050 | -12.7 | 30.0 |
| 1,1-Dichloropropene | 0.479 | 0.563 | 0.050 | -17.4 | 30.0 |
| Carbon Tetrachloride | 0.551 | 0.618 | 0.050 | -12.2 | 30.0 |
| 1,2-Dichloroethane | 0.365 | 0.421 | 0.050 | -15.4 | 30.0 |
| Benzene | 0.957 | 1.117 | 0.050 | -16.7 | 30.0 |
| Trichloroethene | 0.394 | 0.449 | 0.050 | -14.1 | 30.0 |
| 1,2-Dichloropropane | 0.398 | 0.461 | 0.050 | -15.9 | 30.0 |
| Bromodichloromethane | 0.607 | 0.684 | 0.050 | -12.6 | 30.0 |
| Dibromomethane | 0.300 | 0.334 | 0.050 | -11.3 | 30.0 |
| 4-Methyl-2-Pentanone | 0.296 | 0.253 | 0.020 | 14.5 | 30.0 |
| cis-1,3-Dichloropropene | 0.555 | 0.644 | 0.050 | -16.0 | 30.0 |
| Toluene | 0.607 | 0.681 | 0.050 | -12.1 | 30.0 |
| trans-1,3-Dichloropropene | 0.475 | 0.540 | 0.050 | -13.7 | 30.0 |
| 1,1,2-Trichloroethane | 0.284 | 0.310 | 0.050 | -9.2 | 30.0 |
| 2-Hexanone | 0.201 | 0.165 | 0.020 | 18.0 | 30.0 |
| 1,3-Dichloropropane | 0.554 | 0.616 | 0.050 | -11.2 | 30.0 |
| Tetrachloroethene | 0.484 | 0.544 | 0.050 | -12.3 | 30.0 |
| Dibromochloromethane | 0.680 | 0.718 | 0.050 | -5.7 | 30.0 |
| 1,2-Dibromoethane | 0.588 | 0.605 | 0.050 | -2.9 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Instrument ID: L Calibration Date: 03/28/96 Time: 0826

Lab File ID: LFY010DHV.D Init. Calibration Date(s): 03/25/96

Heated Purge: (Y/N) N Init. Calibration Times: 1226 1650

GC Column:CAP ID: 0.53 (mm)

| COMPOUND | $\overline{RRF}$ | RRF10 | MIN RRF | %D | MAX %D |
|---|---|---|---|---|---|
| Chlorobenzene | 1.026 | 1.079 | 0.300 | -5.1 | 30.0 |
| 1,1,1,2-Tetrachloroethane | 0.514 | 0.566 | 0.050 | -10.2 | 30.0 |
| Ethylbenzene | 1.511 | 1.626 | 0.050 | -7.6 | 30.0 |
| Xylene (total) | 0.578 | 0.637 | 0.050 | -10.3 | 30.0 |
| Styrene | 0.967 | 1.035 | 0.050 | -7.0 | 30.0 |
| Bromoform | 0.462 | 0.461 | 0.250 | 0.1 | 30.0 |
| Isopropylbenzene | 1.691 | 1.792 | 0.050 | -6.0 | 30.0 |
| 1,1,2,2-Tetrachloroethane | 0.653 | 0.601 | 0.300 | 7.9 | 30.0 |
| 1,2,3-Trichloropropane | 0.455 | 0.431 | 0.050 | 5.2 | 30.0 |
| Bromobenzene | 0.540 | 0.559 | 0.050 | -3.5 | 30.0 |
| n-Propylbenzene | 0.462 | 0.514 | 0.050 | -11.4 | 30.0 |
| 2-Chlorotoluene | 0.450 | 0.484 | 0.050 | -7.5 | 30.0 |
| 1,3,5-Trimethylbenzene | 1.290 | 1.380 | 0.050 | -7.0 | 30.0 |
| 4-Chlorotoluene | 0.456 | 0.482 | 0.050 | -5.8 | 30.0 |
| tert-Butylbenzene | 1.477 | 1.623 | 0.050 | -9.9 | 30.0 |
| 1,2,4-Trimethylbenzene | 1.325 | 1.436 | 0.050 | -8.4 | 30.0 |
| sec-Butylbenzene | 1.943 | 2.123 | 0.050 | -9.3 | 30.0 |
| p-Isopropyltoluene | 1.628 | 1.796 | 0.050 | -10.3 | 30.0 |
| 1,3-Dichlorobenzene | 0.923 | 0.977 | 0.050 | -5.8 | 30.0 |
| 1,4-Dichlorobenzene | 0.946 | 0.993 | 0.050 | -4.9 | 30.0 |
| n-Butylbenzene | 1.419 | 1.570 | 0.050 | -10.7 | 30.0 |
| 1,2-Dichlorobenzene | 0.844 | 0.888 | 0.050 | -5.2 | 30.0 |
| 1,2-Dibromo-3-Chloropropane | 0.148 | 0.131 | 0.020 | 11.6 | 30.0 |
| 1,2,4-Trichlorobenzene | 0.726 | 0.762 | 0.050 | -5.0 | 30.0 |
| Hexachlorobutadiene | 0.494 | 0.538 | 0.050 | -8.9 | 30.0 |
| Naphthalene | 1.131 | 1.169 | 0.050 | -3.4 | 30.0 |
| 1,2,3-Trichlorobenzene | 0.645 | 0.642 | 0.050 | 0.6 | 30.0 |
| 1,2-Dichloroethane-d4 | 0.318 | 0.372 | 0.050 | -17.0 | 30.0 |
| Bromofluorobenzene | 0.807 | 0.932 | 0.050 | -15.4 | 30.0 |
| 1,2-Dichlorobenzene-d4 | 0.537 | 0.578 | 0.050 | -7.5 | 30.0 |

All other compounds must meet a minimum RRF of 0.010.

8A

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH SAS No.: SDG No.: 57371

Lab File ID (Standard): LFY010DHV.D Date Analyzed: 03/28/96

Instrument ID: L Time Analyzed: 0826

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

| | | IS1(FBZ) AREA # | RT # | IS2(CBZ) AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 127305 | 9.72 | 112889 | 15.99 | 0 | 0.00 |
| | UPPER LIMIT | 254610 | 10.22 | 225778 | 16.49 | 0 | 0.50 |
| | LOWER LIMIT | 63652 | 9.22 | 56444 | 15.49 | 0 | -0.50 |
| | EPA SAMPLE No. | | | | | | |
| 01 | LFBLFYD | 138333 | 9.73 | 111858 | 16.02 | | |
| 02 | VBLKJ7 | 122928 | 9.73 | 100145 | 16.02 | | |
| 03 | TB31996 | 122311 | 9.73 | 98587 | 16.02 | | |
| 04 | VSTD0005 | 129962 | 9.73 | 108799 | 16.00 | | |
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IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 = N/A

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.