N96095.AR.000076
NWIRP CALVERTON NY
5090.3a

R-49-10-91-7

# FINAL
# SITE INVESTIGATION

## NAVAL WEAPONS INDUSTRIAL RESERVE PLANT CALVERTON, NEW YORK

## NORTHERN AND CHESAPEAKE DIVISIONS

## VOLUME III

PREPARED BY

HALLIBURTON NUS
ENVIRONMENTAL CORPORATION
PITTSBURGH, PENNSYLVANIA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY
(CLEAN) PROGRAM

CONTRACT NUMBER N62472-90-D-1298
CONTRACT TASK ORDER NUMBER 0002

APRIL 1992

HALLIBURTON NUS
*Environmental Corporation*

Donohue ENGINEERS ARCHITECTS SCIENTISTS

ENSR™

# APPENDIX J

# VALIDATED ANALYTICAL DATA

# PRODUCTION WELLS

CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | MW-7 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11823 | 11822 | 11820 | 11821 | 12029 | 12030 | 11825 |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 10 | 10 U | 10 U | 10 U | 5 U | 10 U | 5 UJ(2) | 13 UJ(2) |
| Carbon Disulfide | 5 | 5 U | 5U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 1 J(1) | 5 U | 5 U | 53 J(2) | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 3 J(1) | 5 U | 5 U | 26 J(2) | 12 | 19 |
| 1,2-Dichloroethene(total) | 5 | 5 U | 1 J(1) | 5 U | 5 U | 5 U | 7 | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | R | R | R | R | 10 U | 10 U | 10 UJ(1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 | 2 J(1) | 5 U | 20 J(2) | 11 | 9 |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 J(2) | 1 J(1) | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 UJ(1) | 10 UJ(1) | 10 UJ(1) | 10 UJ(1) | 10 U | 10 UJ(1) | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 J(2) | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 56 J(2) | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 10 J(2) | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 120 J(2) | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/18/91 | 07/16/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/28/91 | 07/29/91 | 07/25/91 |

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Semivolatile Aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | MW-7 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11823 | 11822 | 11820 | 11821 | 12029 | 12030 | 11825 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 12 J(1) | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 3 J(1) |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 44 J(1) | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 110 | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 7/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 07/29/91 |

[illegible] ed b[illegible]e concentration is < CRQL.

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Semivolatile Aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | MW-7 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11823 | 11822 | 11820 | 11821 | 12029 | 12030 | 11825 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 UJ(1) |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ(1) | 20 UJ(1) | 20 UJ(1) | 20 UJ(1) | 100UJ(1) | 20 UJ(1) | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 2 J(1) | 2 J(1) | 2 J(1) | 10 U | 32 J(1) | 10 U | 3 J(1) |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 07/29/91 |

J(1) – Value estimated because concentration is < CRQL.
UJ(1) – Nondetect estimated due to calibration %D > 50

SITE: CALVERTON
CASE NO. FD402
LABORATORY: NET CAMBRIDGE

Pesticide/PCB aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | FIELD BLANK 1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 0403-11823 | 0403-11822 | 0403-11820 | 0403-11821 | 0440-12029HP | 0440-12030 | 0440-12037 |
| COMPOUND | CRQL | | | | | | | |
| alpha-BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| beta-BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| delta-BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| gamma-BHC(Lindane) | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Aldrin | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor Epoxide | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Endosulfan I | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 7.9 X | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1:0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 |
| DATE ANALYZED: | | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: PW2

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11822

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2052

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/26/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.20~~ | ~~22~~ | ~~J~~ |
| 2. | Unknown | 8.00 | 8.0 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.:

PW3

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11820

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2048

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/26/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.20~~ | ~~24~~ | ~~J~~ |
| 2. | Unknown | 8.00 | 8.0 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE 100.0

PW3A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2051

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/26/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.28~~ | ~~32~~ | ~~J~~ |
| 2. | ~~Unknown~~ | ~~7.00~~ | ~~8.0~~ | ~~J~~ |
| 3. | Unknown | 8.00 | 10 | J |

CALVERTON
SDG: 2852CW
LABORATORY: NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | FIELD BLANK #1 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 03-11823S | 03-11822S | 03-11820S | 03-11821S | 40-12029S | 40-12030S | | |
| | | | | FIELD DUPLICATE PAIR | | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| ALUMINUM | 20.0 | 69.1 | 83.1 | 65.7 | 51.5 | 6010 | 23300 | 78.4 | 200 |
| ANTIMONY | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| ARSENIC | 3.0 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 4.4 | 8.4 | 3.0 U | 10 |
| BARIUM | 5.0 | 8.4 | 11.2 | 6.9 | 6.1 | 129 | 138 | 5.0 U | 200 |
| BERYLLIUM | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.1 | 2.3 | 1.0 U | 5 |
| CADMIUM | 3.0 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.5 | 5.5 | 3.0 U | 5 |
| CALCIUM | 20.0 | 14600 | 18200 | 11400 | 11500 | 17500 | 24800 | 292 | 5000 |
| CHROMIUM | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 13.5 | 25.5 | 5.0 U | 10 |
| COBALT | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 23.5 | 37.4 | 5.0 U | 50 |
| COPPER | 5.0 | 7.6 | 5.0 U | 5.0 U | 5.0 U | 21.0 | 60.9 | 5.0 U | 25 |
| IRON | 5.0 | 157 | 42.4 | 39.5 | 33.5 | 8220 | 30000 | 35.6 | 100 |
| LEAD | 2.0 | 2.8 | 2.0 U | 2.8 | 2.0 U | 57.8 | 19.0 | 2.0 U | 3 |
| MAGNESIUM | 50.0 | 5560 | 8380 | 4310 | 4310 | 2760 | 4860 | 53.1 | 5000 |
| MANGANESE | 1.0 | 39.0 | 5.2 | 5.3 | 5.7 | 147 | 372 | 1.0 U | 15 |
| MERCURY | 0.20 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 020 |
| NICKEL | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 13.9 | 23.6 | 5.0 U | 40 |
| POTASSIUM | 400 | 2190 | 881 | 424 | 813 | 1960 | 2420 | 400 U | 5000 |
| SELENIUM | 2.0 | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 10.0 J(2) | 2.0 UJ(2) | 5 |
| SILVER | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| SODIUM | 100 | 4870 J(1) | 4720 J(1) | 4970 J(1) | 4920 J(1) | 2900 J(1) | 265 J(1) | 100 U | 5000 |
| THALLIUM | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 |
| VANADIUM | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 23.2 | 62.9 | 5.0 U | 50 |
| ZINC | 5.0 | R(1) | R(1) | R(1) | R(1) | R(1) | R(1) | R(1) | 20 |
| CYANIDE | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 20.0 | 5.6 U | 10 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/18/91 | 07/18/91 | 07/18/91 | |

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to MS %R < 75% yet > 30%.
J(1) - Value is estimated due to ICP serial dilution %D > 10%.
J(2) - Value is estimated due to MS %R < 75% yet > 30%.

# SOILS

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL03 | SOIL03C | SOIL03A | SOIL03B | SOIL02 | SOIL02A | SOIL02B |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12584 | 12585 | 12585 | 12587 | 12588 | 12589 | 12590 |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| Bromomethane | 10 | R (1) | 11 UJ (1) | R (1) | R (1) | R (1) | R (1) | R (1) |
| Vinyl Chloride | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| Chloroethane | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| Methylene Chloride | 5 | 6 UJ (1) | 5 U (1) | 5 U | 5 U | 5 U | 5 U (1) | 6 U |
| Acetone | 10 | 12 U (1) | 11 UJ (1) | 10 U | 10 U | 11 UJ (2) | 11 UJ (1,2) | 11 U (1) |
| Carbon Disulfide | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 1,1-Dichloroethene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 1,1-Dichloroethane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 1,2-Dichloroethene(total) | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Chloroform | 5 | 6 UJ (1) | 5 U (1) | 5 U (1) | 5 U (1) | 5 U | 5 U (1) | 6 U |
| 1,2-Dichloroethane | 5 | 4 J (1) | 8 J (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 2-Butanone | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| 1,1,1-Trichloroethane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Carbon Tetrachloride | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Vinyl Acetate | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| Bromodichloromethane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 1,2-Dichloropropane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| cis-1,3-Dichloropropene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Trichloroethene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Dibromochloromethane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 1,1,2-Trichloroethane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Benzene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| trans-1,3-Dichloropropene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Bromoform | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 4-Methyl-2-pentanone | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| 2-Hexanone | 10 | 12 UJ (1) | 11 UJ (1) | 10 U | 10 U | 11 U | 11 UJ (1) | 11 U |
| Tetrachloroethene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| 1,1,2,2-Tetrachloroethane | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Toluene | 5 | 6 UJ (1) | 3 J (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Chlorobenzene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Ethylbenzene | 5 | 6 UJ (1) | 2 J (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Styrene | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| Total Xylenes | 5 | 6 UJ (1) | 5 UJ (1) | 5 U | 5 U | 5 U | 5 UJ (1) | 6 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/05/91 | 08/07/91 | 08/06/91 | 08/06/91 | 08/03/91 | 08/03/91 | 08/06/91 |
| PERCENT SOLIDS: | | 84 | 92 | 97 | 96 | 94 | 93 | 87 |

U (1) – Value is considered to be a false positive due to blank contamination.
J,UJ (1) – Value is estimated due to surrogate %Rs outside QC limits.
UJ (2) – Value is estimated due to continuing calibration %D > 50.
R (1) – Value is rejected due to initial calibration %RSD > 90.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SED-01 | SED-02 | SOIL-01 | SOIL-01A | SOIL-01B | SOIL-22 | SOIL-22A | SOIL-22B |
|---|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12897 | 12898 | 12659 | 12660 | 12661 | 12668 | 12669 | 12670 |
| COMPOUND | CRQL | | | | | | | | |
| Chloromethane | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Bromomethane | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Vinyl Chloride | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Chloroethane | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Methylene Chloride | 5 | 6 U | 6 U | 13 U(1) | 16 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Acetone | 10 | 43 U(1) | 14 U | 11 U | 21 U(1) | 39 U(1) | 11 UJ | 10 U | 12 U |
| Carbon Disulfide | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1-Dichloroethene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1-Dichloroethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,2-Dichloroethene(total) | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Chloroform | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 16 U |
| 1,2-Dichloroethane | 5 | 2 | 2 | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 2-Butanone | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| 1,1,1-Trichloroethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Carbon Tetrachloride | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Vinyl Acetate | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Bromodichloromethane | 5 | 6 U | 7 U | 11 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,2-Dichloropropane | 5 | 6 U | 7 U | 11 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| cis-1,3-Dichloropropene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Trichloroethene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Dibromochloromethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1,2-Trichloroethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Benzene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| trans-1,3-Dichloropropene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Bromoform | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 4-Methyl-2-pentanone | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| 2-Hexanone | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Tetrachloroethene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1,2,2-Tetrachloroethane | 5 | R | R | R | R | R | R | 5 U | 6 U |
| Toluene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Chlorobenzene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Ethylbenzene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Styrene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Total Xylenes | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/31/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/09/91 | 08/09/91 | 08/08/91 | 08/08/91 | 08/06/91 | 08/06/91 | 08/09/91 | 08/08/91 |
| PERCENT MOISTURE: | | 17 | 26 | 11 | 23 | 29 | 8 | 4 | 14 |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Volatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL05 | SOIL05A | SOIL05B | SOIL06 | SOIL06A | SOIL06B | SOIL07 | SOIL07A | SOIL07B |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12342 | 12343 | 12344 | 12345 | 12346 | 12347 | 12348 | 12349 | 12350 |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 14 U | 11 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U | 630 U |
| Bromomethane | 10 | 14 U | 11 U | 13 U | 11 U | 11 U | 13 U | 10 UJ (2) | 10 UJ (2) | 630 U |
| Vinyl Chloride | 10 | 14 U | 11 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U | 630 U |
| Chloroethane | 10 | 14 U | 11 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U | 630 U |
| Methylene Chloride | 5 | 7 U | 5 U | 7 U (1) | 6 U (1) | 5 U | 6 U (1) | 5 U | 5 U | 320 U |
| Acetone | 10 | 14 U | 11 U | 13 U | 11 U | 11 U | 13 U (1) | 10 U (1) | 10 U | 630 U |
| Carbon Disulfide | 5 | 7 U | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,1-Dichloroethene | 5 | 7 U | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,1-Dichloroethane | 5 | 7 U | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,2-Dichloroethene(total) | 5 | 7 U | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| Chloroform | 5 | 7 U | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,2-Dichloroethane | 5 | 7 U | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 2-Butanone | 10 | 14 U | 11 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U | 630 U |
| 1,1,1-Trichloroethane | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| Carbon Tetrachloride | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| Vinyl Acetate | 10 | 14 UJ (1) | 11 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U | 630 U |
| Bromodichloromethane | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,2-Dichloropropane | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| cis-1,3-Dichloropropene | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| Trichloroethene | 5 | 7 UJ (1) | 5 U | 7 U | 4 J (2) | 4 J (2) | 6 U | 5 U | 5 U | 320 U |
| Dibromochloromethane | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,1,2-Trichloroethane | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| Benzene | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| trans-1,3-Dichloropropene | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| Bromoform | 5 | 7 UJ (1) | 5 U | 7 U | 6 U | 5 U | 6 U | 5 U | 5 U | 320 U |
| 4-Methyl-2-pentanone | 10 | 14 UJ (1) | 11 U | 13 U | 11 UJ (1) | 11 U | 13 U | 10 U | 10 U | 630 U |
| 2-Hexanone | 10 | 14 UJ (1) | 11 U | 13 U | 11 UJ (1) | 11 U | 13 U | 10 U | 10 U | 630 U |
| Tetrachloroethene | 5 | 4 J (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 320 U |
| 1,1,2,2-Tetrachloroethane | 5 | 7 UJ (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 320 U |
| Toluene | 5 | 7 UJ (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 320 U |
| Chlorobenzene | 5 | 7 UJ (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 320 U |
| Ethylbenzene | 5 | 7 UJ (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 320 U |
| Styrene | 5 | 7 UJ (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 320 U |
| Total Xylenes | 5 | 7 UJ (1) | 5 U | 7 U | 6 UJ (1) | 5 U | 6 U | 5 U | 5 U | 450 |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 50 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 08/01/91 | 08/04/91 | 07/30/91 | 08/04/91 | 08/04/91 | 07/30/91 | 07/30/91 | 07/31/91 | 08/03/91 |

U (1) – Value is considered to be a false positive due to blank contamination
J,UJ (1) – Value is estimated due to internal standard failure
J (2) – Value is estimated because reported concentration is less than the CRQL
UJ (2) – Value is estimated due to initial calibration %RSD > 50.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL04 | SOIL04C | SOIL04A | SOIL04B |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12591 | 12592 | 12593 | 12594 |
| COMPOUND | CRQL | | | | |
| Chloromethane | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| Bromomethane | 10 | 10 UJ (1) | 11 UJ (1) | R (1) | 12 U |
| Vinyl Chloride | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| Chloroethane | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| Methylene Chloride | 5 | 5 U (1) | 5 U (1) | 5 U | 6 U |
| Acetone | 10 | 10 UJ (1) | 11 UJ (1) | 10 U (1) | 12 U |
| Carbon Disulfide | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,1-Dichloroethene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,1-Dichloroethane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,2-Dichloroethene (total) | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Chloroform | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,2-Dichloroethane | 5 | 5 UJ (1) | 1 J (1) | 5 U | 6 U |
| 2-Butanone | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| 1,1,1-Trichloroethane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Carbon Tetrachloride | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Vinyl Acetate | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| Bromodichloromethane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,2-Dichloropropane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| cis-1,3-Dichloropropene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Trichloroethene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Dibromochloromethane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,1,2-Trichloroethane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Benzene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| trans-1,3-Dichloropropene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Bromoform | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 4-Methyl-2-pentanone | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| 2-Hexanone | 10 | 10 UJ (1) | 11 UJ (1) | 10 U | 12 U |
| Tetrachloroethene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Toluene | 5 | 5 UJ (1) | 1 J (1) | 5 U | 6 U |
| Chlorobenzene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Ethylbenzene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Styrene | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| Total Xylenes | 5 | 5 UJ (1) | 5 UJ (1) | 5 U | 6 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/06/91 | 08/08/91 | 08/06/91 | 08/06/91 |
| PERCENT SOLIDS: | | 97 | 95 | 97 | 83 |

U (1) - Value is considered to be a false positive due to blank contamination.
J,UJ (1) - Value is estimated due to surrogate %Rs outside QC limits; some results are also estimated due to internal standard failure.
UJ (2) - Value is estimated due to continuing calibration %D > 50.
J (2) - Value is estimated because the reported concentration is less than the CRQL
R (1) - Value is rejected dur[illegible]itial calibration %RSD > 90.

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Volatile Soil Analysis
ug/Kg

| SAMPLE LOCATION: | | SED-03 | SED-04 | SED-06 | SOIL-13 | SOIL-13 | SOIL-14 | SOIL-14 | SOIL-16 | SOIL-16 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SED-03 | SED-04 | SED-06 | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-15 | SOIL-16C |
| LABORATORY ID: | | 12800 | 12812 | 12813 | 12806 | 12806 | 12807 | 12808 | 12791 | 12792 |
| | | | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Bromomethane | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Vinyl Chloride | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Chloroethane | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Methylene Chloride | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Acetone | 10 | 11 U | 11 UJ(2) | 10 U | 10 U(1) | 1000 UJ(1) | 140 U(1) | 1100 U | 11 U | 11 U |
| Carbon Disulfide | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Chloroform | 5 | 5 U(1) | 6 U(1) | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 2-Butanone | 10 | 11 U | 11 U | 10 U | 10 U | R(1) | 54 U | R(1) | 11 U | 11 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 7400 J(1) | 27 U | 560 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Bromodichloromethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| 2-Hexanone | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Tetrachloroethene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 6 U | 5 U | 5 U | 1300 J(1) | 7 J | 560 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 6 U | 5 U | 5 U | 2700 J(1) | 130 | 2000 | 5 U | 5 U |
| Styrene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 6 U | 5 U | 5 U | 17000 J(1) | 700 | 560 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/13/91 | 08/12/91 | 08/09/91 | 08/13/91 | 08/13/91 | 08/12/91 | 08/08/91 | 08/08/91 | 08/08/91 |
| PERCENT MOISTURE: | | 7 | 13 | 4 | 4 | 4 | 8 | 10 | 7 | 8 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of high surrogate compound recovery.
UJ(2) - Nondetect is estimated because of continuing calibration %D greater than 50.
J - Value is estimated because result is reported at concentration less than CRQL.
J (1) - Value is estimated because of high surrogate compound recovery.
R (1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Volatile Soil Analysis
ug/Kg

| SAMPLE LOCATION: | | SOIL - 15 | SOIL - 16 | SOIL - 16 | SOIL - 16 | SOIL - 17 | SOIL - 17 | SOIL - 17 | SOIL - 18 | SOIL - 18 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SOIL - 16A | SOIL - 16 | SOIL - 16C | SOIL - 16A | SOIL - 17 | SOIL - 17C | SOIL - 17A | SOIL - 18 | SOIL - 18C |
| LABORATORY ID: | | 12793 | 12809 | 12811 | 12810 | 12797 | 12798 | 12799 | 12801 | 12804 |
| | | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| Bromomethane | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| Vinyl Chloride | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| Chloroethane | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| Methylene Chloride | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 1 J | 1 J | 5 U |
| Acetone | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U(1) | 11 U(1) | 11 U |
| Carbon Disulfide | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chloroform | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 2-Butanone | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| 1,1,1-Trichloroethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| Bromodichloromethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Trichloroethene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Benzene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Bromoform | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| 2-Hexanone | 10 | 12 U | 11 U | 10 U | 11 U | 10 U | 11 U | 12 U | 11 U | 11 U |
| Tetrachloroethene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Toluene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chlorobenzene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Ethylbenzene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Styrene | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Total Xylenes | 5 | 6 U | 5 U | 5 U | 5 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/09/91 | 08/09/91 | 08/09/91 | 08/09/91 | 08/09/91 | 08/09/91 | 08/12/91 | 08/12/91 | 08/09/91 |
| PERCENT MOISTURE: | | 16 | 5 | 3 | 8 | 2 | 11 | 17 | 8 | 7 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of high surrogate compound recovery.
UJ(2) - Nondetect is estimated because of continuing calibration %D greater than 50.
J - Value is estimated because result is reported at concentration less than CRQL
J (1) - Value is estimated because of high surrogate compound recovery.
R (1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. FD403B
LABORATORY: NET CAMBRIDGE

Volatile Soil Analyses
mg/Kg

| SAMPLE LOCATION: | | SOIL-08 | SOIL-08A | SOIL-08B | SOIL-08C | SOIL-09 | SOIL-09A | SOIL-09B |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12463 | 12464 | 12465 | 12466 | 12467 | 12468 | 12469 |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 11 U | 11 U | 57 U | 1000 U | 1300 U |
| Bromomethane | 10 | 10 UJ(2) | 10 UJ(2) | 11 UJ(2) | 11 UJ(2) | 57 UJ | 1000 U | 1300 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 11 U | 11 U | 57 U | 1000 U | 1300 U |
| Chloroethane | 10 | 10 U | 10 U | 11 U | 11 U | 57 U | 1000 U | 230 UJ(2) |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Acetone | 10 | 10 U | 10 UJ(2) | 11 UJ(1) | 11 U | 710UJ(1) | 1000 U | 1300 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 6 | 5 U | 29 U | 520 U | 630 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 2-Butanone | 10 | 10 U | 10 U | 6 UJ(1) | 11 U | 57 U | 1000 U | 1300 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 3 J(1) | 5 U | 29 U | 520 U | 630 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 11 U | 11 U | 57 U | 1000 U | 1300 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 11 U | 11 U | 57 U | 1000 U | 1300 U |
| 2-Hexanone | 10 | 10 U | 10 U | 11 U | 11 U | 57 U | 1000 U | 1300 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 1 J(1) | 5 U | 29 U | 580 | 630 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 12 J(1) | 4300 | 770 |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 1600 | 350 J(1) |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 29 U | 520 U | 630 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 51Y | 15000Y | 3400 Y |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 07/31/91 | 08/01/91 | 07/31/91 | 07/31/91 | 08/03/91 | 08/03/91 | 08/03/91 |
| | | 4 | 4 | 6 | 6 | 13 | 4 | 21 |

CALVERTON
CASE NO FD403B
LABORATORY: NET CAMBRIDGE

Volatile Soil Analyses
mg/Kg

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | SOIL - 10 | SOIL - 10A | SOIL - 10B | SOIL - 10C | SOIL - 11 | SOIL - 11A | SOIL - 11B | SOIL - 12 | SOIL - 12A | SOIL - 12B | RINSATE - 7 | TB - 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12470 | 12478 | 12471 | 12472 | 12473 | 12474 | 12475 | 12479 | 12476 | 12477 | 12480 | 12481 |
| COMPOUND | CRQL | | | | | | | | | | | | |
| Chloromethane | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 UJ(2) | 10 UJ(2) |
| Bromomethane | 10 | 11 UJ(2) | 11 UJ(2) | 12 U | 11 UJ(2) | 14 UJ(2) | 10 UJ(2) | 13 UJ | 11 UJ(2) | 11 UJ(2) | 13 UJ(2) | 10 U | 10 U |
| Vinyl Chloride | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Chloroethane | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Methylene Chloride | 5 | 6 U | 2 J(1) | 6 U | 1 J(1) | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Acetone | 10 | 2 UJ(1) | 26 UJ(1) | 12 U | 11 UJ(1) | 14 UJ(1) | 12 UJ | 9 UJ(1) | 4 UJ(1) | 11 UJ(2) | 13 UJ(1) | 30 J(2) | 4 J(2) |
| Carbon Disulfide | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chloroform | 5 | 6 U | 6 U | 6 U | 5 U | 1 J(1) | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 6 U | 7 | 6 | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 2-Butanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 2 J(1) | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| 2-Hexanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 2 J(1) | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 08/05/91 | 08/05/91 | 08/04/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/01/91 | 08/01/91 |
| | | 6 | 13 | 16 | 7 | 27 | 1 | 22 | 7 | 11 | 22 | | |

CALVERTON
CASE NO. 91.0580
LABORATORY: NET CAMBRIDGE

Volatile Soil Analyses
mg/Kg

| SAMPLE LOCATION: | | SOIL 21 | SOIL 21A | SOIL 21B | SOIL 20 | SOIL 20A | SOIL 20B | SOIL 20C |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12649 | 12650 | 12651 | 12652 | 12653 | 12654 | 12655 |
| COMPOUND | CRQL | | | | | | | |
| Benzene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Chlorobenzene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1,2-Dichlorobenzene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1,3-Dichlorobenzene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 1,4- Dichlorobenzene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Methyl-t-butyl-Ether | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| m-Xylene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| o-Xylene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p-Xylene | 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 |
| DATE ANALYZED: | | 08/10/91 | 08/10/91 | 08/10/91 | 08/13/91 | 08/13/91 | 08/13/91 | 08/13/91 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET – CAMBRIDGE

Volatile Soil Analysis
ug/Kg

| SAMPLE LOCATION: | | SOIL-18 | SOIL-18 | SOIL-19 | SOIL-19 | SOIL-19 |
|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SOIL-18A | SOIL-18B | SOIL-19 | SOIL-19A | SOIL-19B |
| LABORATORY ID: | | 12802 | 12803 | 12794 | 12795 | 12796 |
| COMPOUND | CRQL | | | | | |
| Chloromethane | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Bromomethane | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Vinyl Chloride | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Chloroethane | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Acetone | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 2-Butanone | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Vinyl Acetate | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| 2-Hexanone | 10 | 10 U | 11 U | 10 U | 10 U | 13 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 6 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/09/91 | 08/09/91 | 08/06/91 | 08/06/91 | 08/09/91 |
| PERCENT MOISTURE: | | 4 | 12 | 3 | 4 | 20 |

U(1) – Value is considered to be a false positive due to blank contamination.
UJ(1) – Nondetect is estimated because of high surrogate compound recovery.
UJ(2) – Nondetect is estimated because of continuing calibration %D greater than 50.
J – Value is estimated because resul[illegible] ported at concentration less than CRQL.
(1) – [illegible] is es[illegible]d be[illegible] f h[illegible] rogat[illegible] our[illegible] very
R (1) – Nondetect is rejected because of poor detector re[illegible]

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-22B | SOIL-22A | SOIL-22 | SOIL-01B | SOIL-01A | SOIL-01 | SED-02 | SED-01 |
|---|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12670 | 12669 | 12668 | 12661 | 12660 | 12659 | 12898 | 12897 |
| COMPOUND | CRQL | | | | | | | | |
| Phenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| bis(2-Chloroethyl) ether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Chlorophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,3-Dichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,4-Dichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Benzyl Alcohol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,2-Dichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Methylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| bis(2-Chloroisopropyl) ether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 UJ | 400 UJ |
| 4-Methylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| N-Nitroso-di-n-propylamine | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Hexachloroethane | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Nitrobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Isophorone | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Nitrophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dimethylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Benzoic Acid | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 UJ | 1900 UJ |
| bis(2-Chloroethoxy)methane | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dichlorophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,2,4-Trichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Naphthalene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 1700 J | 2100 U | 1900 U | 450 U | 400 U |
| 4-Chloroaniline | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Hexachlorobutadiene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 4-Chloro-3-Methylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Methylnaphthalene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 600 J | 2100 U | 1900 U | 450 U | 400 U |
| Hexachlorocyclopentadiene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4,6-Trichlorophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4,5-Trichlorophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| 2-Chloronaphthalene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Nitroaniline | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Dimethylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Acenaphthylene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,6-Dinitrotoluene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| DILUTION FACTOR: | | 1.0 | 1.09 | 1.0 | 5.0 | 5.0 | 5.0 | 1.00 | 1.00 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/31/91 | 07/31/91 |
| DATE EXTRACTED: | | 08/06/91 | 08/06/91 | 08/06/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |
| DATE ANALYZED: | | 08/14/91 | 08/14/91 | 08/14/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 14 | 4 | 8 | 29 | 23 | 11 | 26 | 17 |

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-23 | SOIL-23C | SOIL-23A | SOIL-23B | SOIL-24 | SOIL-24A | SOIL-24B |
|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12665 | 12671 | 12666 | 12667 | 12662 | 12663 | 12664 |
| | | FIELD DUPLICATE PAIR | | | | | | |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Bromomethane | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Vinyl Chloride | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Chloroethane | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Methylene Chloride | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Acetone | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Carbon Disulfide | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,1-Dichloroethene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,1-Dichloroethane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,2-Dichloroethene(total) | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Chloroform | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,2-Dichloroethane | 5 | 6 U | 1J | 5 U | 6 U | 5 U | 5 U | 5 |
| 2-Butanone | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| 1,1,1-Trichloroethane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Carbon Tetrachloride | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Vinyl Acetate | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Bromodichloromethane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,2-Dichloropropane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| cis-1,3-Dichloropropene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Trichloroethene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Dibromochloromethane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,1,2-Trichloroethane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Benzene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| trans-1,3-Dichloropropene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Bromoform | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 4-Methyl-2-pentanone | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| 2-Hexanone | 10 | 13 U | 11 U | 10 U | 11 U | 11 U | 10 U | 12 U |
| Tetrachloroethene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| 1,1,2,2-Tetrachloroethane | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Toluene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Chlorobenzene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Ethylbenzene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Styrene | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| Total Xylenes | 5 | 6 U | 5 U | 5 U | 6 U | 5 U | 5 U | 6 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/06/91 | 08/06/91 | 08/08/91 | 08/12/91 | 08/06/91 | 08/08/91 | 08/06/91 |
| PERCENT MOISTURE: | | 22 | 4 | 10 | 8 | 5 | 3 | 16 |

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL 03 | SOIL 03C | SOIL 03A | SOIL 03B | SOIL 02 | SOIL 02A | SOIL 02B |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12584 | 12585 | 12586 | 12587 | 12588 | 12589 | 12590 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| bis(2-Chloroethyl) ether | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2-Chlorophenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 1,3-Dichlorobenzene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 1,4-Dichlorobenzene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Benzyl Alcohol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 1,2-Dichlorobenzene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2-Methylphenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| bis(2-Chloroisopropyl) ether | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 4-Methylphenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| N-Nitroso-di-n-propylamine | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Hexachloroethane | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Nitrobenzene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Isophorone | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2-Nitrophenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,4-Dimethylphenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Benzoic Acid | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 UJ (2) | 18000 U | 1800 U |
| bis(2-Chloroethoxy)methane | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,4-Dichlorophenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 1,2,4-Trichlorobenzene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Naphthalene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 4-Chloroaniline | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Hexachlorobutadiene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 4-Chloro-3-Methylphenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2-Methylnaphthalene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Hexachlorocyclopentadiene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,4,6-Trichlorophenol | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,4,5-Trichlorophenol | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 U | 18000 U | 1800 U |
| 2-Chloronaphthalene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2-Nitroaniline | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 U | 18000 U | 1800 U |
| Dimethylphthalate | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Acenaphthylene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,6-Dinitrotoluene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 10 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/02/91 | 08/02/07 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 |
| DATE ANALYZED: | | 08/06/91 | 08/06/91 | 08/07/91 | 08/07/91 | 08/08/91 | 08/07/91 | 08/07/91 |

UJ (2) -- Value is estimated because continuing calibration %D > 50

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-22B | SOIL-22A | SOIL-22 | SOIL-O1B | SOIL-O1A | SOIL-O1 | SEDO2 | SEDO1 |
|---|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12670 | 12669 | 12668 | 12661 | 12660 | 12659 | 12898 | 12897 |
| COMPOUND | CRQL | | | | | | | | |
| 3-Nitroaniline | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Acenaphthene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 3400 J | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dinitrophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 UJ | 1900 UJ |
| 4-Nitrophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Dibenzofuran | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 1600 J | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dinitrotoluene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Diethylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 4-Chlorophenyl-Phenylether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Fluorene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 3100 J | 2100 U | 1900 U | 450 U | 400 U |
| 4-Nitroaniline | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000UJ | 9000 UJ | 2200 UJ | 1900 UJ |
| 4,6-Dinitro-2-Methylphenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| N-nitrosodiphenylamine(1) | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 4-Bromophenyl-Phenylether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Hexachlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Pentachlorophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Phenanthrene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 28000 J | 2100 U | 200J | 450 U | 400 U |
| Anthracene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 7700 J | 2100 U | 1900 U | 450 U | 400 U |
| Di-n-butylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 UJ | 2100 UJ | 1900 UJ | 450 U | 400 U |
| Fluoranthene | 330 | 380 UJ(1) | 340 UJ(1) | 270J | 23000 J | 2100 U | 350J | 450 U | 400 U |
| Pyrene | 330 | 380 UJ(1) | 340 UJ(1) | 310J | 21000 J | 2100 U | 210J | 450 U | 400 U |
| Butylbenzylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 UJ | 2100 U | 1900 U | 450 U | 400 U |
| 3,3'-Dichlorobenzidine | 660 | 760 UJ | 680 UJ | 720 UJ | 46000 UJ | 2100 UJ | 1900 UJ | 900 UJ | 800 UJ |
| Benzo(a)anthracene | 330 | 380 UJ(1) | 340 UJ(1) | 390J | 19000 J | 2100 U | 1900 U | 450 U | 400 U |
| Chrysene | 330 | 380 UJ(1) | 340 UJ(1) | 600J | 17000 J | 2100 U | 1900 U | 450 U | 400 U |
| Bis(2-ethylhexyl)phthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 UJ | 2100 UJ | 1900 UJ | 450 U | 400 U |
| Di-n-octylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Benzo(b)fluoranthene | 330 | 380 UJ(1) | 340 UJ(1) | 840J | 12000 J | 2100 U | 1900 U | 450 U | 400 U |
| Benzo(k)fluoranthene | 330 | 1900 UJ(1) | 340 UJ(1) | 610J | 11000 J | 2100 U | 9000 U | 450 U | 400 U |
| Benzo(a)pyrene | 330 | 380 UJ(1) | 340 UJ(1) | 680J | 14000 J | 2100 U | 1900 U | 450 U | 400 U |
| Indeno(1,2,3-cd)pyrene | 330 | 380 UJ(1) | 340 UJ(1) | 540J | 8200 J | 2100 U | 1900 U | 450 U | 400 U |
| Dibenz(a,h)anthracene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2900 J | 2100 U | 1900 U | 450 U | 400 U |
| Benzo(g,h,i)perylene | 330 | 380 UJ(1) | 340 UJ(1) | 510J | 8300 J | 2100 U | 1900 U | 450 U | 400 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 5.0 | 5.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/31/91 | 07/31/91 |
| DATE EXTRACTED: | | 08/06/91 | 08/06/91 | 08/06/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |
| DATE ANALYZED: | | 08/14/91 | 08/14/91 | 08/14/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 14 | 4 | 8 | 29 | 23 | 11 | 26 | 17 |

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL04 | SOIL04C | SOIL04A | SOIL04B |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12591 | 12592 | 12593 | 12594 |
| COMPOUND | CRQL | | | | |
| 3-Nitroaniline | 50 | 1600 UJ (2) | 1700 UJ (2) | 1600 UJ (2) | 1900 UJ (2) |
| Acenaphthene | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,4-Dinitrophenol | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| 4-Nitrophenol | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| Dibenzofuran | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,4-Dinitrotoluene | 10 | 340 U | 350 U | 340 U | 400 U |
| Diethylphthalate | 10 | 340 U | 350 U | 340 U | 400 U |
| 4-Chlorophenyl-Phenylether | 10 | 340 U | 350 U | 340 U | 400 U |
| Fluorene | 10 | 340 U | 350 U | 340 U | 400 U |
| 4-Nitroaniline | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| N-nitrosodiphenylamine(1) | 10 | 340 U | 350 U | 340 U | 400 U |
| 4-Bromophenyl-Phenylether | 10 | 340 U | 350 U | 340 U | 400 U |
| Hexachlorobenzene | 10 | 340 U | 350 U | 340 U | 400 U |
| Pentachlorophenol | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| Phenanthrene | 10 | 340 U | 350 U | 340 U | 400 U |
| Anthracene | 10 | 340 U | 350 U | 340 U | 400 U |
| Di-n-butylphthalate | 10 | 970 U (1) | 750 U (1) | 360 U (1) | 400 U (1) |
| Fluoranthene | 10 | 340 U | 350 U | 340 U | 400 U |
| Pyrene | 10 | 340 U | 350 U | 340 U | 400 U |
| Butylbenzylphthalate | 10 | 35 J (1) | 350 UJ (1) | 340 U | 400 U |
| 3,3'-Dichlorobenzidine | 20 | 680 UJ (2) | 690 UJ (2) | 680 UJ (2) | 800 UJ (2) |
| Benzo(a)anthracene | 10 | 340 U | 350 U | 340 U | 400 U |
| Chrysene | 10 | 340 U | 350 U | 340 U | 400 U |
| Bis(2-ethylhexyl)phthalate | 10 | 340 U (1) | 350 U (1) | 340 U | 400 U (1) |
| Di-n-octylphthalate | 10 | 340 U | 350 U | 340 U | 400 U |
| Benzo(b)fluoranthene | 10 | 340 U | 350 U | 340 U | 400 U |
| Benzo(k)fluoranthene | 10 | 340 U | 350 U | 340 U | 400 U |
| Benzo(a)pyrene | 10 | 340 U | 350 U | 340 U | 400 U |
| Indeno(1,2,3-cd)pyrene | 10 | 340 U | 350 U | 340 U | 400 U |
| Dibenz(a,h)anthracene | 10 | 340 U | 350 U | 340 U | 400 U |
| Benzo(g,h,i)perylene | 10 | 340 U | 350 U | 340 U | 400 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 |
| DATE ANALYZED: | | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |

U (1) - Value is considered a false positive due to blank contamination.
J (1) - Value is estimated because it is reported at a concentration less than the CRQL.
UJ (1) - Value is estimated due to poor field duplicate precision.
UJ (2) - Value is estimated because continuing calibration %D > 50.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL 03 | SOIL 03C | SOIL 03A | SOIL 03B | SOIL 02 | SOIL 02A | SOIL 02B |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12584 | 12585 | 12586 | 12587 | 12588 | 12589 | 12590 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 50 | 1900 UJ (2) | 1700 U | 1600 UJ (2) | 1700 UJ (2) | 1700 UJ (2) | 18000 UJ (2) | 1800 UJ (2) |
| Acenaphthene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,4-Dinitrophenol | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 UJ (2) | 18000 U | 1800 U |
| 4-Nitrophenol | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 U | 18000 U | 1800 U |
| Dibenzofuran | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 2,4-Dinitrotoluene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Diethylphthalate | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 4-Chlorophenyl-Phenylether | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Fluorene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 4-Nitroaniline | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 UJ (2) | 18000 U | 1800 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 U | 18000 U | 1800 U |
| N-nitrosodiphenylamine(1) | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| 4-Bromophenyl-Phenylether | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Hexachlorobenzene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Pentachlorophenol | 50 | 1900 U | 1700 U | 1600 U | 1700 U | 1700 U | 18000 U | 1800 U |
| Phenanthrene | 10 | 120 J (1) | 80 J (1) | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Anthracene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Di-n-butylphthalate | 10 | 1300 U (1) | 1200 U (1) | 2100 U (1) | 460 U (1) | 1800 U (1) | 3700 U (1) | 2200 U (1) |
| Fluoranthene | 10 | 160 J (1) | 120 J (1) | 340 U | 340 U | 88 J (1) | 3700 U | 380 U |
| Pyrene | 10 | 130 J (1) | 120 J (2) | 340 U | 340 U | 61 J (1) | 3700 U | 380 U |
| Butylbenzylphthalate | 10 | 1000 | 64 J (1) | 340 U | 340 U | 570 | 450 J (1) | 380 U |
| 3,3'-Dichlorobenzidine | 20 | 790 UJ (2) | 720 UJ (2) | 680 UJ (2) | 690 UJ (2) | 700 UJ (2) | 7500 UJ (2) | 760 UJ (2) |
| Benzo(a)anthracene | 10 | 67 J (1) | 64 J (1) | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Chrysene | 10 | 81 J (1) | 71 J (1) | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Bis(2-ethylhexyl)phthalate | 10 | 1900 U (1) | 360 U (1) | 340 U (1) | 340 U (1) | 350 U (1) | 3700 U | 380 U (1) |
| Di-n-octylphthalate | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Benzo(b)fluoranthene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Benzo(k)fluoranthene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Benzo(a)pyrene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Indeno(1,2,3-cd)pyrene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Dibenz(a,h)anthracene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| Benzo(g,h,i)perylene | 10 | 390 U | 360 U | 340 U | 340 U | 350 U | 3700 U | 380 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 10 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 |
| DATE ANALYZED: | | 08/06/91 | 08/06/91 | 08/07/91 | 08/07/91 | 08/08/91 | 08/07/91 | 08/07/91 |

U (1) - Value is considered a false positive due to blank contamination.
J (1) - Value is estimated because it is reported at a concentration less than the CRQL.
UJ (2) - Value is estimated because continuing calibration %D > 50.
J (2) - Value is estimated due to continuing calibration %D > 25.

SITE: CALVERTON
CASE NO FD403A
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION | | SOIL05 | SOIL05A | SOIL05B | SOIL06 | SOIL06A | SOIL06B | SOIL07 | SOIL07A | SOIL07B |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12343 | 12343 | 12344 | 12345 | 12346 | 12347 | 12348 | 12349 | 12350 |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| Acenaphthene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2,4-Dinitrophenol | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| 4-Nitrophenol | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| Dibenzofuran | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2,4-Dinitrotoluene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Diethylphthalate | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 4-Chlorophenyl-Phenylether | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Fluorene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 4-Nitroaniline | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| [illegible] | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 4-Bromophenyl-Phenylether | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Hexachlorobenzene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Pentachlorophenol | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| Phenanthrene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Anthracene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Di-n-butylphthalate | 10 | 2400 U | 65 J (1) | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Fluoranthene | 10 | 2400 U | 350 U | 430 U | 610 J | 75 J | 420 U | [illegible] | 340 | 4200 U |
| Pyrene | 10 | 2400 U | 350 U | 430 U | [illegible] | 83 J | 420 U | [illegible] | [illegible] | 4200 U |
| Butylbenzylphthalate | 10 | 2400 U | 58 J (1) | 120 J (1) | 300 J (2) | 340 J (1) | 270 J (1) | 340 U | 340 U | 4200 U |
| 3,3'-Dichlorobenzidine | 20 | 4700 U (1) | 700 U (1) | 870 U (1) | 3700 U (2) | 710 U (1) | 860 U (1) | 680 U (1) | 680 U (1) | 8400 U |
| Benzo(a)anthracene | 10 | 2400 U | 350 U | 430 U | 330 J (2) | 42 J (1) | 420 U | 340 U | 340 U | 4200 U |
| Chrysene | 10 | 2400 U | 350 U | 430 U | 380 J (3) | 82 J (1) | 420 U | 340 U | 340 U | 4200 U |
| Bis(2-ethylhexyl)phthalate | 10 | 2400 U | 350 U (1) | 430 U (1) | 1900 U | 350 U (1) | 420 U | 340 U (1) | 340 U (1) | 4200 U (1) |
| Di-n-octylphthalate | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Benzo(b)fluoranthene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 J (1) | 420 U | 340 U | 340 U | 4200 U |
| Benzo(k)fluoranthene | 10 | 2400 U | 350 U | 430 U | 1900 U | 39 J (1) | 420 U | 340 U | 340 U | 4200 U |
| Benzo(a)pyrene | 10 | 2400 U | 350 U | 430 U | 310 J (1) | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Indeno(1,2,3-cd)pyrene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Dibenz(a,h)anthracene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Benzo(g,h,i)perylene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| DILUTION FACTOR | | 5.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 | 1.0 | 1.0 | 10.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 |
| DATE ANALYZED: | | 08/07/91 | 08/07/91 | 08/07/91 | 08/08/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/08/91 |

U (1) - Value is considered a false positive due to blank contamination.
J (1) - Value is estimated because it is reported at a concentration less than the CRQL.
J,UJ (2) - Value is estimated due to internal standard failure.
UJ (1) - Value is estimated due to continuing calibration %D > 50.
J (3) - Value is estimated due to continuing calibration %D > 25.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL04 | SOIL04C | SOIL04A | SOIL04B |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12591 | 12592 | 12593 | 12594 |
| COMPOUND | CRQL | | | | |
| Phenol | 10 | 340 U | 350 U | 340 U | 400 U |
| bis(2-Chloroethyl) ether | 10 | 340 U | 350 U | 340 U | 400 U |
| 2-Chlorophenol | 10 | 340 U | 350 U | 340 U | 400 U |
| 1,3-Dichlorobenzene | 10 | 340 U | 350 U | 340 U | 400 U |
| 1,4-Dichlorobenzene | 10 | 340 U | 350 U | 340 U | 400 U |
| Benzyl Alcohol | 10 | 340 U | 350 U | 340 U | 400 U |
| 1,2-Dichlorobenzene | 10 | 340 U | 350 U | 340 U | 400 U |
| 2-Methylphenol | 10 | 340 U | 350 U | 340 U | 400 U |
| bis(2-Chloroisopropyl) ether | 10 | 340 U | 350 U | 340 U | 400 U |
| 4-Methylphenol | 10 | 340 U | 350 U | 340 U | 400 U |
| N-Nitroso-di-n-propylamine | 10 | 340 U | 350 U | 340 U | 400 U |
| Hexachloroethane | 10 | 340 U | 350 U | 340 U | 400 U |
| Nitrobenzene | 10 | 340 U | 350 U | 340 U | 400 U |
| Isophorone | 10 | 340 U | 350 U | 340 U | 400 U |
| 2-Nitrophenol | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,4-Dimethylphenol | 10 | 340 U | 350 U | 340 U | 400 U |
| Benzoic Acid | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| bis(2-Chloroethoxy)methane | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,4-Dichlorophenol | 10 | 340 U | 350 U | 340 U | 400 U |
| 1,2,4-Trichlorobenzene | 10 | 340 U | 350 U | 340 U | 400 U |
| Naphthalene | 10 | 340 U | 350 U | 340 U | 400 U |
| 4-Chloroaniline | 10 | 340 U | 350 U | 340 U | 400 U |
| Hexachlorobutadiene | 10 | 340 U | 350 U | 340 U | 400 U |
| 4-Chloro-3-Methylphenol | 10 | 340 U | 350 U | 340 U | 400 U |
| 2-Methylnaphthalene | 10 | 340 U | 350 U | 340 U | 400 U |
| Hexachlorocyclopentadiene | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,4,6-Trichlorophenol | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,4,5-Trichlorophenol | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| 2-Chloronaphthalene | 10 | 340 U | 350 U | 340 U | 400 U |
| 2-Nitroaniline | 50 | 1600 U | 1700 U | 1600 U | 1900 U |
| Dimethylphthalate | 10 | 340 U | 350 U | 340 U | 400 U |
| Acenaphthylene | 10 | 340 U | 350 U | 340 U | 400 U |
| 2,6-Dinitrotoluene | 10 | 340 U | 350 U | 340 U | 400 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 |
| DATE ANALYZED: | | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |

SITE: CALVERTON
CASE NO. FD403B
LABORATORY: NET CAMBRIDGE

Semivolatile Soil Analyses
mg/

| SAMPLE LOCATION: | | Soil-08 | Soil-08A | Soil-08B | Soil-Q8C | Soil-09 | Soil-09A | Soil-09B |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12463 | 12464 | 12465 | 12466 | 12467 | 12468 | 12469 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| bis(2-Chloroethyl) ether | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2-Chlorophenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 1,3-Dichlorobenzene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 1,4-Dichlorobenzene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Benzyl Alcohol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 1,2-Dichlorobenzene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2-Methylphenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| bis(2-Chloroisopropyl) ether | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 4-Methylphenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| N-Nitroso-di-n-propylamine | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Hexachloroethane | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Nitrobenzene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Isophorone | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2-Nitrophenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2,4-Dimethylphenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Benzoic Acid | 1700 | 1700 U | 1500 U | 1700 U | 1600 U | 1800U | 8300 U | 10000 U |
| bis(2-Chloroethoxy)methane | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2,4-Dichlorophenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 1,2,4-Trichlorobenzene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Naphthalene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 6200 | 4700 |
| 4-Chloroaniline | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Hexachlorobutadiene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 4-Chloro-3-Methylphenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2-Methylnaphthalene | 340 | 340 U | 310 U | 350 U | 340 U | 77 J(1) | 16000 | 13000 |
| Hexachlorocyclopentadiene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2,4,6-Trichlorophenol | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2,4,5-Trichlorophenol | 1700 | 1700 U | 1500 U | 1700 U | 1600 U | 1800U | 8300 U | 10000 U |
| 2-Chloronaphthalene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2-Nitroaniline | 1700 | 1700 U | 1500 U | 1700 U | 1600 U | 1800U | 8300 U | 10000 U |
| Dimethylphthalate | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Acenaphthylene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 2,6-Dinitrotoluene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 |
| DATE ANALYZED: | | 08/09/91 | 08/09/91 | 08/09/91 | 08/09/91 | 08/13/91 | 08/15/91 | 08/14/91 |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION | | SOIL05 | SOIL05A | SOIL05B | SOIL06 | SOIL06A | SOIL06B | SOIL07 | SOIL07A | SOIL07B |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12342 | 12343 | 12344 | 12345 | 12346 | 12347 | 12348 | 12349 | 12350 |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| bis(2-Chloroethyl) ether | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2-Chlorophenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 1,3-Dichlorobenzene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 1,4-Dichlorobenzene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Benzyl Alcohol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 1,2-Dichlorobenzene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2-Methylphenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| bis(2-Chloroisopropyl) ether | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 4-Methylphenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| N-Nitroso-di-n-propylamine | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Hexachloroethane | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Nitrobenzene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Isophorone | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2-Nitrophenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2,4-Dimethylphenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Benzoic Acid | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| bis(2-Chloroethoxy) methane | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2,4-Dichlorophenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 1,2,4-Trichlorobenzene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Naphthalene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 4-Chloroaniline | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Hexachlorobutadiene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 4-Chloro-3-Methylphenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2-Methylnaphthalene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Hexachlorocyclopentadiene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 700 J (1) |
| 2,4,6-Trichlorophenol | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2,4,5-Trichlorophenol | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| 2-Chloronaphthalene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2-Nitroaniline | 50 | 11000 U | 1700 U | 2100 U | 9000 U | 1700 U | 2100 U | 1700 U | 1600 U | 20000 U |
| Dimethylphthalate | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| Acenaphthylene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| 2,6-Dinitrotoluene | 10 | 2400 U | 350 U | 430 U | 1900 U | 350 U | 420 U | 340 U | 340 U | 4200 U |
| DILUTION FACTOR | | 5.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 | 1.0 | 1.0 | 10.0 |
| DATE SAMPLED | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 |
| DATE ANALYZED: | | 08/07/91 | 08/07/91 | 08/07/91 | 08/08/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/08/91 |

J (1) - Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD403B
LABORATORY: NET CAMBRIDGE

Semivolatile Soil Analyses
mg/Kg

| SAMPLE LOCATION: | | Soil-10 | Soil-10B | Soil-10C | Soil-11 | Soil-11A | Soil-11B | Soil-12A | Soil-12B |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12470 | 12471 | 12472 | 12473 | 12474 | 12475 | 12476 | 12477 |
| COMPOUND | CRQL | | | | | | | | |
| Phenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| bis(2-Chloroethyl) ether | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2-Chlorophenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 1,3-Dichlorobenzene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 1,4-Dichlorobenzene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Benzyl Alcohol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 1,2-Dichlorobenzene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2-Methylphenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| bis(2-Chloroisopropyl) ether | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 4-Methylphenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| N-Nitroso-di-n-propylamine | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Hexachloroethane | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Nitrobenzene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Isophorone | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2-Nitrophenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,4-Dimethylphenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Benzoic Acid | 1700 | 1700 U | 1700 U | 1700 U | 2200 U | 1600U | 2100U | 1800 U | 2100U |
| bis(2-Chloroethoxy)methane | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,4-Dichlorophenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 1,2,4-Trichlorobenzene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Naphthalene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 4-Chloroaniline | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Hexachlorobutadiene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 4-Chloro-3-Methylphenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2-Methylnaphthalene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Hexachlorocyclopentadiene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,4,6-Trichlorophenol | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,4,5-Trichlorophenol | 1700 | 1700 U | 1700 U | 1700 U | 2200 U | 1600 U | 2100 U | 1800 U | 2100 U |
| 2-Chloronaphthalene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2-Nitroaniline | 1700 | 1700 U | 1700 U | 1700 U | 2200 U | 1600 U | 2100 U | 1800 U | 2100 U |
| Dimethylphthalate | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Acenaphthylene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,6-Dinitrotoluene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/08/91 | 08/08/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 |
| DATE ANALYZED: | | 08/15/91 | 08/15/91 | 08/06/91 | 08/06/91 | 08/06/91 | 08/06/91 | 08/06/91 | 08/08/91 |
| PERCENT MOISTURE: | | 6 | 6 | 7 | 27 | 1 | 22 | 11 | 22 |

J(1) – Value estimated because concentration is < CRQL.
UJ(1) – Nondetect estimated due to calibration %D > 50.
UJ(2) – Value estimated due to blank contamination.

SITE: CALVERTON
CASE NO. FD403B
LABORATORY: NET CAMBRIDGE

Semivolatile Soil Analyses
mg/l

| SAMPLE LOCATION: | | Soil-08 | Soil-08A | Soil-08B | Soil-08C | Soil-09 | Soil-09A | Soil-09B |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12463 | 12464 | 12465 | 12466 | 12467 | 12468 | 12469 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 1700 | 1700U | 1500 U | 1700U | 1600U | 1800U | 8300 U | 10000 U |
| Acenaphthene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 290 J(1) | 320 J(1) |
| 2,4-Dinitrophenol | 1700 | 1700U | 1500 U | 1700U | 1600U | 1800U | 8300 U | 10000 U |
| 4-Nitrophenol | 1700 | 1700U | 1500 U | 1700U | 1600U | 1800U | 8300 U | 10000 U |
| Dibenzofuran | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 270 J(1) | 250 J(1) |
| 2,4-Dinitrotoluene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Diethylphthalate | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 4-Chlorophenyl-Phenylether | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Fluorene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 480 J(1) | 510 J(1) |
| 4-Nitroaniline | 1700 | 1700U | 1500 U | 1700U | 1600U | 1800UJ(1) | 8300 U | 10000 UJ(1) |
| 4,6-Dinitro-2-Methylphenol | 1700 | 1700U | 1500 U | 1700U | 1600U | 1800U | 8300 U | 10000U |
| N-nitrosodiphenylamine(1) | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| 4-Bromophenyl-Phenylether | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Hexachlorobenzene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Pentachlorophenol | 1700 | 1700U | 1500 U | 1700U | 1600U | 1800U | 8300 U | 10000 U |
| Phenanthrene | 340 | 200 J(1) | 310 U | 350 U | 91 J(1) | 77 J(1) | 1800 | 2000 J(1) |
| Anthracene | 340 | 33 J(1) | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Di-n-butylphthalate | 340 | 2800 UJ(2) | 1900 UJ(2) | 1600 UJ(2) | 1500 UJ(2) | 1800UJ(2) | 1600 UJ(2) | 1400 UJ(2) |
| Fluoranthene | 340 | 420 | 310 U | 350 U | 150 J(1) | 350 J(1) | 1900 | 2100 U |
| Pyrene | 340 | 190 J(1) | 310 U | 350 U | 62 J(1) | 290 J(1) | 930 J(1) | 1400 J(1) |
| Butylbenzylphthalate | 340 | 250 UJ(2) | 55 UJ(2) | 350 U | 340 U | 380 U | 430 UJ(2) | 2100 U |
| 3,3'-Dichlorobenzidine | 690 | 690 UJ(1) | 620 UJ(1) | 700 UJ(1) | 670 UJ(1) | 760 UJ(1) | 3400 UJ(1) | 4200 UJ(1) |
| Benzo(a)anthracene | 340 | 160 J(1) | 310 U | 350 U | 62 J(1) | 160 J(1) | 740 J(1) | 880 J(1) |
| Chrysene | 340 | 190 J(1) | 310 U | 350 U | 70 J(1) | 220 J(1) | 990 J(1) | 1200 J(1) |
| Bis(2-ethylhexyl)phthalate | 340 | 42 UJ(2) | 54 UJ(2) | 78 UJ(2) | 340 U | 150 UJ(2) | 1500 UJ(2) | 1100 UJ(2) |
| Di-n-octylphthalate | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Benzo(b)fluoranthene | 340 | 210 J(1) | 310 U | 350 U | 48 J(1) | 220 J(1) | 980 J(1) | 920 J(1) |
| Benzo(k)fluoranthene | 340 | 93 J(1) | 310 U | 350 U | 67 J(1) | 200 J(1) | 430 J(1) | 860 J(1) |
| Benzo(a)pyrene | 340 | 160 J(1) | 310 U | 350 U | 41 J(1) | 110 J(1) | 300 J(1) | 400 J(1) |
| Indeno(1,2,3-cd)pyrene | 340 | 170 J(1) | 310 U | 350 U | 340 U | 110 J(1) | 1700 U | 2100 U |
| Dibenz(a,h)anthracene | 340 | 340 U | 310 U | 350 U | 340 U | 380 U | 1700 U | 2100 U |
| Benzo(g,h,i)perylene | 340 | 340 U | 310 U | 350 U | 340 U | 120 J(1) | 1700 U | 2100 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 |
| DATE ANALYZED: | | 08/09/91 | 08/09/91 | 08/09/91 | 08/09/91 | 08/13/91 | 08/15/91 | 08/14/91 |
| | | 4 | 4 | 6 | 2 | 13 | 4 | 21 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER: | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-15 | SOIL-15C |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13 | SOIL-14 | SOIL-14 | SOIL-15 | SOIL-15 |
| SAMPLE NUMBER: | | 12800 | 12812 | 12813 | 12805 | 12806 | 12807 | 12808 | 12791 | 12792 |
| | | | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| bis(2-Chloroethyl) ether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Chlorophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,3-Dichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,4-Dichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Benzyl Alcohol | 330 | 350 U | 380 U | 95 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,2-Dichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Methylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| bis(2-Chloroisopropyl) ether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Methylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| N-Nitroso-di-n-propylamine | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Hexachloroethane | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Nitrobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Isophorone | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Nitrophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4-Dimethylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Benzoic Acid | 1700 | 1700 UJ(1) | 83 J(1) | 1400 J | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| bis(2-Chloroethoxy)methane | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4-Dichlorophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,2,4-Trichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Naphthalene | 330 | 350 U | 380 U | 340 U | 340 U | 3100 | 1400 J | 120 J | 350 U | 360 U |
| 4-Chloroaniline | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Hexachlorobutadiene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Chloro-3-Methylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Methylnaphthalene | 330 | 350 U | 380 U | 340 U | 340 U | 3300 U | 4400 | 540 | 350 U | 360 U |
| Hexachlorocyclopentadiene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4,6-Trichlorophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4,5-Trichlorophenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| 2-Chloronaphthalene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Nitroaniline | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| Dimethylphthalate | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Acenaphthylene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,6-Dinitrotoluene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 5 | 10 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/07/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/07/91 |
| DATE ANALYZED: | | 08/24/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/22/91 | 08/22/91 | 08/22/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 7 | 13 | 4 | 4 | 4 | 8 | 10 | 7 | 8 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 60.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

| SAMPLE LOCATION: | | Sol - 10 | Sol - 10B | Sol - 10C | Sol - 11 | Sol - 11A | Sol - 11B | Sol - 12A | Sol - 12B |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12470 | 12471 | 12472 | 12473 | 12474 | 12475 | 12476 | 12477 |
| COMPOUND | CRQL | | | | | | | | |
| 3-Nitroaniline | 1700 | 1700U | 1700U | 1700U | 2200 U | 1600U | 2100 U | 1800 U | 2100 U |
| Acenaphthene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,4-Dinitrophenol | 1700 | 1700U | 1700U | 1700U | 2200 U | 1600U | 2100 U | 1800 U | 2100 U |
| 4-Nitrophenol | 1700 | 1700U | 1700U | 1700U | 2200 U | 1600U | 2100 U | 1800 U | 2100 U |
| Dibenzofuran | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 2,4-Dinitrotoluene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Diethylphthalate | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 4-Chlorophenyl-Phenylether | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Fluorene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 4-Nitroaniline | 1700 | 1700U | 1700U | 1700U | 2200 U | 1600U | 2100 U | 1800 U | 2100 U |
| 4,6-Dinitro-2-Methylphenol | 1700 | 1700U | 1700U | 1700U | 2200 U | 1600U | 2100 U | 1800 U | 2100 U |
| N-nitrosodiphenylamine(1) | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| 4-Bromophenyl-Phenylether | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Hexachlorobenzene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Pentachlorophenol | 1700 | 1700U | 1700U | 1700U | 2200 U | 1600U | 2100 U | 1800 U | 2100 U |
| Phenanthrene | 340 | 190 J(1) | 44 J(1) | 42 J(1) | 450 U | 330 U | 420 U | 370 U | 420 U |
| Anthracene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Di-n-butylphthalate | 340 | 220 UJ(2) | 250 UJ(2) | 2300 UJ(2) | 2400 UJ(2) | 3500 UJ(2) | 3600 UJ(2) | 2200 UJ(2) | 4600 UJ(2) |
| Fluoranthene | 340 | 280 J(1) | 80 J(1) | 46 J(1) | 450 U | 330 U | 420 U | 370 U | 420 U |
| Pyrene | 340 | 140 J(1) | 38 J(1) | 36 J(1) | 450 U | 330 U | 420 U | 370 U | 420 U |
| Butylbenzylphthalate | 340 | 300 UJ(2) | 350 UJ(2) | 1600 UJ(2) | 450 UJ(2) | 1100 UJ(2) | 420 UJ(2) | 370 UJ(2) | 770 UJ(2) |
| 3,3'-Dichlorobenzidine | 690 | 700 UJ(1) | 700 UJ(1) | 710 U | 900 U | 670 U | 850 U | 740 U | 850 U |
| Benzo(a)anthracene | 340 | 100 J(1) | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Chrysene | 340 | 120 J(1) | 35 J(1) | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Bis(2-ethylhexyl)phthalate | 340 | 140 UJ(2) | 350 UJ(2) | 180 UJ(2) | 300 UJ(2) | 71 UJ(2) | 140 UJ(2) | 85 UJ(2) | 53 UJ(2) |
| Di-n-octylphthalate | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Benzo(b)fluoranthene | 340 | 84 J(1) | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Benzo(k)fluoranthene | 340 | 66 J(1) | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Benzo(a)pyrene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Indeno(1,2,3-cd)pyrene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Dibenz(a,h)anthracene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| Benzo(g,h,i)perylene | 340 | 350 U | 350 U | 350 U | 450 U | 330 U | 420 U | 370 U | 420 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/08/91 | 08/08/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 |
| DATE ANALYZED: | | 08/15/91 | 08/15/91 | 08/06/91 | 08/06/91 | 08/06/91 | 08/06/91 | 08/06/91 | 08/08/91 |
| | | 6 | 6 | 7 | 27 | 1 | 22 | 11 | 22 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER | | SOIL - 15A | SOIL - 16 | SOIL - 16C | SOIL - 16A | SOIL - 17 | SOIL - 17C | SOIL - 17A | SOIL - 18 | SOIL - 18C |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SOIL - 15 | SOIL - 16 | SOIL - 16 | SOIL - 16 | SOIL - 17 | SOIL - 17 | SOIL - 17 | SOIL - 18 | SOIL - 18 |
| SAMPLE NUMBER | | 12793 | 12809 | 12811 | 12810 | 12797 | 12798 | 12799 | 12801 | 12804 |
| | | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 57 J | 400 U | 360 U | 350 U |
| bis(2-Chloroethyl) ether | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2-Chlorophenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 1,3-Dichlorobenzene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 1,4-Dichlorobenzene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Benzyl Alcohol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 1,2-Dichlorobenzene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2-Methylphenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| bis(2-Chloroisopropyl) ether | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 4-Methylphenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| N-Nitroso-di-n-propylamine | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Hexachloroethane | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Nitrobenzene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Isophorone | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2-Nitrophenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,4-Dimethylphenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Benzoic Acid | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 UJ(1) |
| bis(2-Chloroethoxy)methane | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,4-Dichlorophenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 1,2,4-Trichlorobenzene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Naphthalene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 4-Chloroaniline | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Hexachlorobutadiene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 4-Chloro-3-Methylphenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2-Methylnaphthalene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Hexachlorocyclopentadiene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,4,6-Trichlorophenol | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,4,5-Trichlorophenol | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 U |
| 2-Chloronaphthalene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2-Nitroaniline | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 U |
| Dimethylphthalate | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Acenaphthylene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,6-Dinitrotoluene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| DILUTION FACTOR | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/07/91 | 08/07/91 | 08/08/91 | 08/08/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/08/91 |
| DATE ANALYZED: | | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/26/91 | 08/23/91 |
| PERCENT MOISTURE: | | 16 | 5 | 3 | 8 | 2 | 11 | 17 | 8 | 7 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 50.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-15 | SOIL-15C |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13 | SOIL-14 | SOIL-14 | SOIL-15 | SOIL-15 |
| SAMPLE NUMBER | | 12800 | 12812 | 12813 | 12805 | 12806 | 12807 | 12808 | 12791 | 12792 |
| | | | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 1700 | 1700 U | 1800 U | 1700 U | 1700 UJ(1) | 8300 UJ(1) | 17000 UJ(1) | 1800 UJ(1) | 1700 U | 1700 U |
| Acenaphthene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 850 U | 360 U |
| 2,4-Dinitrophenol | 1700 | 1700 UJ(1) | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| 4-Nitrophenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| Dibenzofuran | 330 | 350 U | 380 U | 340 U | 340 U | 380 J | 3600 U | 370 U | 350 U | 360 U |
| 2,4-Dinitrotoluene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Diethylphthalate | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Chlorophenyl-Phenylether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Fluorene | 330 | 350 U | 380 U | 340 U | 340 U | 400 J | 3600 U | 370 U | 350 U | 360 U |
| 4-Nitroaniline | 1700 | 1700 UJ(1) | 1800 U | 1700 U | 1700 U | 8300 UJ(1) | 17000 UJ(1) | 1800 UJ(1) | 1700 U | 1700 U |
| 4,6-Dinitro-2-Methylphenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| N-nitrosodiphenylamine(1) | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Bromophenyl-Phenylether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Hexachlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Pentachlorophenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| Phenanthrene | 330 | 350 U | 380 U | 170 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Anthracene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Di-n-butylphthalate | 330 | 350 U(1) | 380 U(1) | 340 U(1) | 340 U(1) | 1700 U(1) | 3600 U | 370 U(1) | 350 U(1) | 360 U(1) |
| Fluoranthene | 330 | 47 J | 380 U | 310 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Pyrene | 330 | 350 U | 380 U | 230 J | 340 U | 1700 U | 3600 U | 370 U | 350 UJ(1) | 360 UJ(1) |
| Butylbenzylphthalate | 330 | 350 U(1) | 380 U(1) | 530 U(1) | 340 U | 1700 U | 3600 U | 370 U | 350 U(1) | 360 U(1) |
| 3,3'-Dichlorobenzidine | 660 | R | 760 UJ(1) | 690 UJ(1) | R | 3400 UJ(1) | 7200 UJ(1) | 730 UJ(1) | 1400 UJ(1) | 720 UJ(1) |
| Benzo(a)anthracene | 330 | 350 U | 380 U | 150 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Chrysene | 330 | 350 U | 380 U | 190 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Bis(2-ethylhexyl)phthalate | 330 | 350 U(1) | 380 U(1) | 340 U(1) | 340 U(1) | 1700 U(1) | 3600 U | 370 U(1) | 350 U(1) | 360 U(1) |
| Di-n-octylphthalate | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(b)fluoranthene | 330 | 350 U | 380 U | 280 J | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(k)fluoranthene | 330 | 350 U | 380 U | 140 J | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(a)pyrene | 330 | 350 U | 380 U | 140 J | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Indeno(1,2,3-cd)pyrene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Dibenz(a,h)anthracene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(g,h,i)perylene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| DILUTION FACTOR | | 1 | 1 | 1 | 1 | 5 | 10 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/07/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/07/91 |
| DATE ANALYZED: | | 08/24/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/22/91 | 08/22/91 | 08/22/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 7 | 13 | 4 | 4 | 4 | 8 | 10 | 7 | 8 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 50.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. FD403C
LABORATORY: NET – CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER: | | SOIL-18A | SOIL-18B | SOIL-19 | SOIL-19A | SOIL-19B |
|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SOIL-18 | SOIL-18 | SOIL-19 | SOIL-19 | SOIL-19 |
| SAMPLE NUMBER: | | 12802 | 12803 | 12794 | 12795 | 12796 |
| COMPOUND | CRQL | | | | | |
| Phenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| bis(2-Chloroethyl) ether | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2-Chlorophenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 1,3-Dichlorobenzene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 1,4-Dichlorobenzene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Benzyl Alcohol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 1,2-Dichlorobenzene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2-Methylphenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| bis(2-Chloroisopropyl) ether | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 4-Methylphenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| N-Nitroso-di-n-propylamine | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Hexachloroethane | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Nitrobenzene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Isophorone | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2-Nitrophenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,4-Dimethylphenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Benzoic Acid | 1700 | 1700 UJ(1) | 1800 UJ(1) | 1600 UJ(1) | 1700 UJ(1) | 2000 UJ(1) |
| bis(2-Chloroethoxy)methane | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,4-Dichlorophenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 1,2,4-Trichlorobenzene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Naphthalene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 4-Chloroaniline | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Hexachlorobutadiene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 4-Chloro-3-Methylphenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2-Methylnaphthalene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Hexachlorocyclopentadiene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,4,6-Trichlorophenol | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,4,5-Trichlorophenol | 1700 | 1700 U | 1800 U | 1600 U | 1700 U | 2000 U |
| 2-Chloronaphthalene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2-Nitroaniline | 1700 | 1700 U | 1800 U | 1600 U | 1700 U | 2000 U |
| Dimethylphthalate | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Acenaphthylene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,6-Dinitrotoluene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/08/91 | 08/08/91 | 08/07/91 | 08/07/91 | 08/07/91 |
| DATE ANALYZED: | | 08/23/91 | 08/23/91 | 08/23/91 | 08/23/91 | 08/24/91 |
| PERCENT MOISTURE: | | 4 | 12 | 3 | 4 | 20 |

U(1) – Value is considered to be a false positive due to blank contamination
UJ(1) – Nondetect is estimated because of continuing calibration %D > 50.
UJ(2) – Nondetect is estimated because of internal standard area above QC limits.
J – Value is estimated because of detection at concentration less than the CRQL.
J(1) – Value is estimated because of continuing calibration %D > 25.

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER: | | SOIL - 15A | SOIL - 16 | SOIL - 16C | SOIL - 16A | SOIL - 17 | SOIL - 17C | SOIL - 17A | SOIL - 18 | SOIL - 18C |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SOIL - 16 | SOIL - 16 | SOIL - 16 | SOIL - 16 | SOIL - 17 | SOIL - 17 | SOIL - 17 | SOIL - 18 | SOIL - 18 |
| SAMPLE NUMBER: | | 12793 | 12809 | 12811 | 12810 | 12797 | 12798 | 12799 | 12801 | 12804 |
| | | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 U |
| Acenaphthene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,4-Dinitrophenol | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 UJ(1) |
| 4-Nitrophenol | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 U |
| Dibenzofuran | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 2,4-Dinitrotoluene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Diethylphthalate | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 4-Chlorophenyl-Phenylether | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Fluorene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 4-Nitroaniline | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 UJ(1) |
| 4,6-Dinitro-2-Methylphenol | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 U |
| N-nitrosodiphenylamine(1) | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| 4-Bromophenyl-Phenylether | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Hexachlorobenzene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Pentachlorophenol | 1700 | 1900 U | 1700 U | 1600 U | 1700 U | 1600 U | 1800 U | 1900 U | 1700 U | 1700 U |
| Phenanthrene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Anthracene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Di-n-butylphthalate | 330 | 390 U(1) | 350 U(1) | 340 U(1) | 360 U(1) | 340 U(1) | 2000 U(1) | 940 U(1) | 960 U(1) | 350 U(1) |
| Fluoranthene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Pyrene | 330 | 390 UJ(1) | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Butylbenzylphthalate | 330 | 390 U(1) | 350 U | 340 U | 360 U | 340 U(1) | 370 U(1) | 400 U(1) | 360 U(1) | 350 U |
| 3,3'-Dichlorobenzidine | 660 | 790 UJ(1) | 680 UJ(1) | 680 UJ(1) | 720 UJ(1) | 670 UJ(1) | 740 UJ(1) | 800 UJ(1) | 720 UJ(1) | R(1) |
| Benzo(a)anthracene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Chrysene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Bis(2-ethylhexyl)phthalate | 330 | 390 U(1) | 350 U(1) | 340 U(1) | 360 U(1) | 340 U(1) | 370 U(1) | 400 U(1) | 360 U | 350 U(1) |
| Di-n-octylphthalate | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Benzo(b)fluoranthene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Benzo(k)fluoranthene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Benzo(a)pyrene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Indeno(1,2,3-cd)pyrene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Dibenz(a,h)anthracene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| Benzo(g,h,i)perylene | 330 | 390 U | 350 U | 340 U | 360 U | 340 U | 370 U | 400 U | 360 U | 350 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/07/91 | 08/07/91 | 08/08/91 | 08/08/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/08/91 |
| DATE ANALYZED: | | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/26/91 | 08/23/91 |
| PERCENT MOISTURE: | | 16 | 5 | 3 | 6 | 2 | 11 | 17 | 8 | 7 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 60.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. 91.0580
LABORATORY: NET CAMBRIDGE

Polynuclear Aromatic Soil Analyses
mg/Kg

| SAMPLE LOCATION: | | SOIL 21 | SOIL 21A | SOIL 21B | SOIL 20 | SOIL 20A | SOIL 20B | SOIL 20C |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12649 | 12650 | 12651 | 12652 | 12653 | 12654 | 12655 |
| COMPOUND | RDL | | | | | | | |
| Acenaphthene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Acenaphthylene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Anthracene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Benzo(a)anthracene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Benzo(a)pyrene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Benzo(b)fluoranthene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Benzo(k)fluoranthene | 80 | 170 | < 80 | < 100 | 160 | < 70 | 295 | 130 |
| Benzo(ghi)perylene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Chrysene | 80 | 77 | 93 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Dibenzo(a,h)anthracene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Fluoranthene | 80 | 100 | 210 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Fluorene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Indeno(1,2,3-cd)pyrene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Naphthalene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Phenanthrene | 80 | < 80 | < 80 | < 100 | < 70 | < 70 | < 70 | < 70 |
| Pyrene | 80 | < 80 | 190 | < 100 | < 70 | < 70 | < 70 | < 70 |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 |
| DATE ANALYZED: | | 08/23/91 | 08/23/91 | 08/23/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET – CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| | | | | | | |
|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SOIL-18A | SOIL-18B | SOIL-19 | SOIL-19A | SOIL-19B |
| SAMPLE LOCATION: | | SOIL-18 | SOIL-18 | SOIL-19 | SOIL-19 | SOIL-19 |
| SAMPLE NUMBER: | | 12802 | 12803 | 12794 | 12795 | 12796 |
| COMPOUND | CRQL | | | | | |
| 3-Nitroaniline | 1700 | 1700 U | 1800 U | 1600 U | 1700 U | 2000 U |
| Acenaphthene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,4-Dinitrophenol | 1700 | 1700 UJ(1) | 1800 UJ(1) | 1600 UJ(1) | 1700 UJ(1) | 2000 UJ(1) |
| 4-Nitrophenol | 1700 | 1700 U | 1800 U | 1600 U | 1700 U | 2000 U |
| Dibenzofuran | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 2,4-Dinitrotoluene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Diethylphthalate | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 4-Chlorophenyl-Phenylether | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Fluorene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 4-Nitroaniline | 1700 | 1700 UJ(1) | 1800 UJ(1) | 1600 UJ(1) | 1700 UJ(1) | 2000 UJ(1) |
| 4,6-Dinitro-2-Methylphenol | 1700 | 1700 U | 1800 U | 1600 U | 1700 U | 2000 U |
| N-nitrosodiphenylamine(1) | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| 4-Bromophenyl-Phenylether | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Hexachlorobenzene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Pentachlorophenol | 1700 | 1700 U | 1800 U | 1600 U | 1700 U | 2000 U |
| Phenanthrene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Anthracene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Di-n-butylphthalate | 330 | 410 U(1) | 430 U(1) | 340 U(1) | 430 U(1) | 1900 U(1) |
| Fluoranthene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Pyrene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Butylbenzylphthalate | 330 | 340 U | 370 U | 340 U(1) | 340 U(1) | 410 U(1) |
| 3,3'-Dichlorobenzidine | 660 | R(1) | R(1) | R(1) | R(1) | R(1) |
| Benzo(a)anthracene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Chrysene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Bis(2-ethylhexyl)phthalate | 330 | 340 U(1) | 370 U(1) | 340 U(1) | 340 U(1) | 410 U(1) |
| Di-n-octylphthalate | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Benzo(b)fluoranthene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Benzo(k)fluoranthene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Benzo(a)pyrene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Indeno(1,2,3-cd)pyrene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Dibenz(a,h)anthracene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| Benzo(g,h,i)perylene | 330 | 340 U | 370 U | 340 U | 340 U | 410 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/08/91 | 08/08/91 | 08/07/91 | 08/07/91 | 08/07/91 |
| DATE ANALYZED: | | 08/23/91 | 08/23/91 | 08/23/91 | 08/23/91 | 08/24/91 |
| PERCENT MOISTURE: | | 4 | 12 | 3 | 4 | 20 |

U(1) – Value is considered to be a false positive due to blank contamination.
UJ(1) – Nondetect is estimated because of continuing calibration %D > 50.
UJ(2) – Nondetect is estimated because of internal standard area above QC limits.
J – Value is estimated because of detection at concentration less than the CRQL.
J(1) – Value is estimated becau[illegible] continuing calibration %D > 25
[illegible] – Nor[illegible]t is re[illegible]d bec[illegible] of po[illegible]ector response.

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-24B | SOIL-24A | SOIL-24 | SOIL-23B | SOIL-23A | SOIL-23 | SOIL-23C |
|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12664 | 12663 | 12662 | 12667 | 12666 | 12665 | 12671 |
| | | | | | | | FIELD DUPLIC, | PAIR |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 1650 | 1900 U | 1600 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100U | 1700 UJ(1) |
| Acenaphthene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| 2,4-Dinitrophenol | 1650 | 1900 U | 1600 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100U | 1700 UJ(1) |
| 4-Nitrophenol | 1650 | 1900 U | 1600 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100U | 1700 UJ(1) |
| Dibenzofuran | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| 2,4-Dinitrotoluene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Diethylphthalate | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| 4-Chlorophenyl-Phenylether | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Fluorene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| 4-Nitroaniline | 1650 | 1900 UJ | 1600 UJ | 1700 UJ | 1800 UJ(1) | 1700 UJ(1) | 2100UJ | 1700 UJ(1) |
| 4,6-Dinitro-2-Methylphenol | 1650 | 1900 U | 1600 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100U | 1700 UJ(1) |
| N-nitrosodiphenylamine(1) | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| 4-Bromophenyl-Phenylether | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Hexachlorobenzene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Pentachlorophenol | 1650 | 1900 U | 1600 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100U | 1700 UJ(1) |
| Phenanthrene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 63 | 270J |
| Anthracene | 330 | 900 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 52J |
| Di-n-butylphthalate | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | R | 360 UJ(1) |
| Fluoranthene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 110 | 440J |
| Pyrene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 47 | 170J |
| Butylbenzylphthalate | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | R | 360 UJ(1) |
| 3,3'-Dichlorobenzidine | 660 | 790 UJ | 780 UJ | 700 UJ | 740 UJ | 740 UJ | 840 UJ | 720 UJ |
| Benzo(a)anthracene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 53 | 170J |
| Chrysene | 330 | 110 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 49 | 170J |
| Bis(2-ethylhexyl)phthalate | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | R | 360 UJ(1) |
| Di-n-octylphthalate | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Benzo(b)fluoranthene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 160J |
| Benzo(k)fluoranthene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 100J |
| Benzo(a)pyrene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 120J |
| Indeno(1,2,3-cd)pyrene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Dibenz(a,h)anthracene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| Benzo(g,h,i)perylene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420U | 360 UJ(1) |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/06/91 | 08/06/91 | 08/05/91 | 08/06/91 |
| DATE ANALYZED: | | 08/14/91 | 08/14/91 | 08/15/91 | 08/14/91 | 08/14/91 | 08/14/91 | 08/14/91 |
| PERCENT MOISTURE: | | 16 | 3 | 5 | 10 | 4 | 22 | 8 |

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET – CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-24B | SOIL-24A | SOIL-24 | SOIL-23B | SOIL-23A | SOIL-23 | SOIL-23C |
|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12664 | 12663 | 12662 | 12667 | 12666 | 12665 | 12671 |
| | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| bis(2-Chloroethyl) ether | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2-Chlorophenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 1,3-Dichlorobenzene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 1,4-Dichlorobenzene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Benzyl Alcohol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 1,2-Dichlorobenzene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2-Methylphenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| bis(2-Chloroisopropyl) ether | 330 | 390 UJ | 340 UJ | 350 UJ | 370 UJ(1) | 340 UJ(1) | 420 UJ | 360 UJ(1) |
| 4-Methylphenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| N-Nitroso-di-n-propylamine | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Hexachloroethane | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Nitrobenzene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Isophorone | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2-Nitrophenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2,4-Dimethylphenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Benzoic Acid | 1650 | 1900 UJ | 340 UJ | 1700 UJ | 1800 UJ(1) | 1700 UJ(1) | 2100 UJ | 1700 UJ(1) |
| bis(2-Chloroethoxy)methane | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2,4-Dichlorophenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 1,2,4-Trichlorobenzene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Naphthalene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 4-Chloroaniline | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Hexachlorobutadiene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 4-Chloro-3-Methylphenol | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2-Methylnaphthalene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Hexachlorocyclopentadiene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2,4,6-Trichlorophenol | 330 | 390 U | 1600 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2,4,5-Trichlorophenol | 1650 | 1900 U | 340 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100 U | 1700 UJ(1) |
| 2-Chloronaphthalene | 330 | 390 U | 1600 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2-Nitroaniline | 1650 | 1900 U | 340 U | 1700 U | 1800 UJ(1) | 1700 UJ(1) | 2100 U | 1700 UJ(1) |
| Dimethylphthalate | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| Acenaphthylene | 330 | 390 U | 340 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| 2,6-Dinitrotoluene | 330 | 390 U | 350 U | 350 U | 370 UJ(1) | 340 UJ(1) | 420 U | 360 UJ(1) |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/06/91 | 08/06/91 | 08/05/91 | 08/06/91 |
| DATE ANALYZED: | | 08/14/91 | 08/14/91 | 08/15/91 | 08/14/91 | 08/14/91 | 08/14/91 | 08/14/91 |
| PERCENT MOISTURE: | | 16 | | 5 | 10 | 4 | 22 | 8 |

SITE: CALVERTON
CASE NO. FD403B
LABORATORY: NET CAMBRIDGE

Pesticide/PCB Soil Analyses
mg/Kg

Pesticide/PCB Aq

| SAMPLE LOCATION: | | Soil-08 | Soil-08A | Soil-08B | Soil-08C | Soil-09 | Soil-09A | Soil-09B | RINSATE-7 |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 0546-12463 | 0546-12464 | 0546-12465 | 0546-12466 | 0546-12467 | 0440-12030 | 0546-12469 | 0546-12480 |
| COMPOUND | CRQL | | | | | | | | |
| alpha-BHC | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| beta-BHC | 0.05 | 8.3 U | 7.5 U | 8.5 U | 18 | 9.2 U | 8.3 U | 10 U | 0.066 U |
| delta-BHC | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| gamma-BHC(Lindane) | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Heptachlor | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Aldrin | 0.05 | 36 | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Heptachlor Epoxide | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Endosulfan I | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Dieldrin | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| 4,4'-DDE | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| Endrin | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 14 J | 9.0 J | 0.13 U |
| Endosulfan II | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| 4,4'-DDD | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 16 J | 20 U | 0.13 U |
| Endosulfan Sulfate | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| 4,4'-DDT | 0.10 | 27 | 15 U | 17 U | 82 U | 18 U | 17 U | 20 U | 0.13 U |
| Methoxychlor | 0.50 | 83 U | 75 U | 85 U | 16 U | 92 U | 83 U | 100 U | 0.66 U |
| Endrin Ketone | 0.10 | 17 U | 15 U | 17 U | 82 U | 18 U | 17 U | 20 U | 0.13 U |
| alpha-Chlordane | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| gamma-Chlordane | 0.50 | 83 U | 75 U | 85 U | 160 U | 92 U | 83 U | 100 U | 0.66 U |
| Toxaphene | 1.0 | 170 U | 150U | 170 U | 82 U | 180 U | 170 U | 200 U | 1.3 U |
| Aroclor-1016 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1221 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1232 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1242 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1248 | 0.50 | 2600 X | 75 U | 200 X | 8500 X | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1254 | 1.0 | 170 U | 150 U | 170 U | 160 U | 180 U | 170 U | 200 U | 1.3 U |
| Aroclor-1260 | 1.0 | 170 U | 150 U | 170 U | 160 U | 300 X | 2100 X | 1600 X | 1.3 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 07/30/91 |
| DATE ANALYZED: | | 08/23/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/23/91 |
| PERCENT MOISTURE: | | 4 | 4 | 6 | 2 | 13 | 4 | 21 | |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Pesticide/PCB Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL05 | SOIL05A | SOIL05B | SOIL06 | SOIL06A | SOIL06B | SOIL07 | SOIL07A | SOIL07B |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12342 | 12343 | 12344 | 12345 | 12346 | 12347 | 12348 | 12349 | 12350 |
| COMPOUND | CRQL | | | | | | | | | |
| alpha-BHC | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| beta-BHC | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| delta-BHC | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| gamma-BHC(Lindane) | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| Heptachlor | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| Aldrin | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| Heptachlor Epoxide | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| Endosulfan I | 0.05 | 11 U | 8.5 U | 11 U | 9.0 U | 8.6 U | 9.1 U | 8.3 U | 8.2 U | 9.0 U |
| Dieldrin | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| 4,4'-DDE | 0.10 | 23 U | 17 U | 21 U | 7.5 J (1) | 17 U | 18 U | 17 U | 16 U | 18 U |
| Endrin | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| Endosulfan II | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| 4,4'-DDD | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| Endosulfan Sulfate | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| 4,4'-DDT | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| Methoxychlor | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Endrin Ketone | 0.10 | 23 U | 17 U | 21 U | 18 U | 17 U | 18 U | 17 U | 16 U | 18 U |
| alpha-Chlordane | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| gamma-Chlordane | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Toxaphene | 1.0 | 230 U | 170 U | 210 U | 180 U | 170 U | 180 U | 170 U | 160 U | 180 U |
| Aroclor-1016 | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Aroclor-1221 | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Aroclor-1232 | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Aroclor-1242 | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Aroclor-1248 | 0.50 | 110 U | 86 U | 110 U | 90 U | 86 U | 91 U | 83 U | 82 U | 90 U |
| Aroclor-1254 | 1.0 | 230 U | 170 U | 210 U | 180 U | 170 U | 180 U | 170 U | 160 U | 180 U |
| Aroclor-1260 | 1.0 | 230 U | 170 U | 210 U | 1200 | 100 J (1) | 180 U | 21 J (1) | 160 U | 33 J (1) |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 | 08/01/91 |
| DATE ANALYZED: | | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/24/91 | 08/16/91 | 08/16/91 | 08/16/91 |

J (1) – Value is estimated because reported concentration is less than the CRQL.

CALVERTON
SDG: 2014CS
LABORATORY: NET - CAMBRIDGE

INORGANIC SOIL ANALYSES
mg/Kg

| SAMPLE LOCATION: | | SOIL-03 | SOIL-03 | SOIL-04 | SOIL-04 | SOIL-04 | SOIL-04 | SED-01 | SED-02 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SOIL-03A | SOIL-03B | SOIL-04 | SOIL-04C | SOIL-04A | SOIL-04B | SED-01 | SED-02 | |
| LABORATORY SAMPLE ID: | | 0664-12586 | 0664-12587 | 0664-12591 | 0664-12592 | 0664-12593 | 0664-12594 | 0642-12897 | 0642-12898 | |
| ANALYTE | IDL | | | FIELD DUPLICATE PAIR | | | | | | CRDL |
| Aluminum | 4.0 | 1860 | 238 | 3430 | 2880 | 1380 | 255 | 3520 | 1410 | 40 |
| Antimony | 6.0 | 6.1 UJ(1,2) | 7.3 UJ(1,2) | 6.3 UJ(1,2) | 6.3 UJ(1,2) | 6.3 UJ(1,2) | 7.4 UJ(1,2) | 8.6 UJ(1,2) | 7.3 UJ(1,2) | 12 |
| Arsenic | 0.6 | 0.92 | 0.73 U | 1.5 | 1.9 | 0.65 | 0.74 U | 1.7 | 0.73 U | 2 |
| Barium | 1.0 | 9.10 J(2) | 1.2 U | 18.3 J(2) | 20.0 J(2) | 6.0 J(2) | 1.2 U | 12.1 J(2) | 3.8 J(2) | 40 |
| Beryllium | 0.2 | 0.20 U | 0.24 U | 0.21 U | 0.21 U | 0.21 U | 0.25 U | 0.29 U | 0.24 U | 1 |
| Cadmium | 0.8 | 0.64 | 0.73 U | 1.1 | 0.97 | 0.63 U | 0.74 U | 1.1 | 0.73 U | 1 |
| Calcium | 4.0 | 165 U(1) | 37.2 U(1) | 1090 U(1) | 668 U(1) | 69.9 U(1) | 58.6 U(1) | 423 U(1) | 385 U(1) | 1000 |
| Chromium | 1.0 | 4.2 | 1.9 | 36.0 | 27.7 | 3.1 | 1.2 U | 70.5 | 6.4 | 2 |
| Cobalt | 1.0 | 1.2 | 1.2 U | 1.5 | 1.2 | 1.0 U | 1.2 U | 1.5 | 1.2 U | 10 |
| Copper | 1.0 | 3.3 J(3) | 1.40 J(3) | 11.4 J(3) | 12.4 J(3) | 2.1 J(3) | 1.2 UJ(2) | 15.1 J(3) | 2.0 J(3) | 5 |
| Iron | 1.0 | 2570 | 941 | 3650 | 3300 | 1780 | 431 | 3110 | 1640 | 20 |
| Lead | 0.4 | 5.4 J(3) | 1.2 U(1) | 6.7 J(3) | 5.3 J(3) | 1.8 U(1) | 2.6 U(1) | 14.7 J(3) | 4.0 J(3) | 0.6 |
| Magnesium | 10.0 | 219 | 74.9 | 649 | 373 | 163 | 53.2 | 340 | 160 | 1000 |
| Manganese | 0.2 | 29.4 U(1) | 9.9 U(1) | 60.0 | 36.9 U(1) | 21.1 U(1) | 8.6 U(1) | 14.6 U(1) | 10.9 U(1) | 3 |
| Mercury | 0.04 | 0.10 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U | 0.12 U | 0.12 U | 0.11 U | 0.04 |
| Nickel | 1.0 | 2.1 | 1.9 | 6.0 | 6.5 | 1.4 | 1.2 U | 4.8 | 1.2 U | 8 |
| Potassium | 80.0 | 81.7 U | 96.7 U | 84.3 U | 84.0 U | 83.8 U | 98.4 U | 114 U | 97.6 U | 1000 |
| Selenium | 0.4 | 0.41 UJ(2) | 0.48 UJ(2) | 0.42 UJ(2) | 0.42 UJ(2) | 0.42 UJ(2) | 0.49 UJ(2) | 0.57 UJ(2) | 0.49 UJ(2) | 1 |
| Silver | 1.0 | 1.0 UJ(1) | 1.2 UJ(1) | 1.1 UJ(1) | 1.1 UJ(1) | 1.0 UJ(1) | 1.2 UJ(1) | 1.4 UJ(1) | 1.2 UJ(1) | 2 |
| Sodium | 20.0 | 20.4 U | 24.2 U | 21.1 U | 21.90 U(1) | 20.9 U | 24.6 U | 28.5 U | 24.4 U | 1000 |
| Thallium | 0.4 | 0.41 U | 0.48 U | 0.42 U | 0.42 U | 0.42 U | 0.49 U | 0.57 U | 0.49 U | 2 |
| Vanadium | 1.0 | 4.1 J(4) | 1.9 J(4) | 7.5 J(4) | 6.2 J(4) | 2.6 J(4) | 1.2 UJ(3) | 7.9 J(4) | 3.4 J(4) | 10 |
| Zinc | 1.0 | 10.6 U(1) | 12.2 U(1) | 28.1 U(1) | 23.2 U(1) | 8.6 U(1) | 3.0 U(1) | 68.9 U(1) | 6.6 U(1) | 4 |
| Cyanide | 2.0 | 1.3 U | 1.5 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.8 U | 1.5 U | 2 |
| DATE SAMPLED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/31/91 | 07/31/91 | |
| PERCENT SOLIDS: | | 97.9 | 82.7 | 94.9 | 95.2 | 95.5 | 81.3 | 70.1 | 82.0 | |

U - Value is a nondetect as reported by the laboratory.
R(1) - Value is considered to be a false positive result because of blank contamination.
UJ(1) - Nondetect is estimated because of low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated because of low MS %R.
UJ(3) - Nondetect is estimated because of laboratory duplicate imprecision.
J(1) - Value is estimated because of low CRDL Standard analysis %R.
J(2) - Value is estimated because of high MS %R.
J(3) - Value is estimated because of low MS %R.
J(4) - Value is estimated because of laboratory duplicate imprecision.
J(5) - Value is estimated because ICP serial dilution result %D exceeded 10%.

CALVERTON
SDG: 2014CS
LABORATORY: NET - CAMBRIDGE

INORGANIC SOIL ANALYSES
mg/Kg

| SAMPLE LOCATION: | | SOIL-01 | SOIL-01 | SOIL-01 | SOIL-02 | SOIL-02 | SOIL-02 | SOIL-03 | SOIL-03 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | SOIL-01 | SOIL-01A | SOIL-01B | SOIL-02 | SOIL-02A | SOIL-02B | SOIL-03 | SOIL-03C | |
| LABORATORY SAMPLE ID: | | 0682-12669 | 0682-12660 | 0682-12661 | 0664-12588 | 0664-12589 | 0664-12590 | 0664-12584 | 0664-12586 | |
| ANALYTE | IDL | | | | | | | FIELD DUPLICATE PAIR | | CRDL |
| Aluminum | 4.0 | 7410 | 12400 | 22400 | 4880 | 8800 | 5080 | 3960 | 4840 | 40 |
| Antimony | 6.0 | 9.9 J(1,3) | 8.0 UJ(1,2) | 9.9 UJ(1,2) | 6.4 UJ(1,2) | 7.00 UJ(1,2) | 7.2 UJ(1,2) | 6.5 UJ(1,2) | 7.2 UJ(1,2) | 12 |
| Arsenic | 0.6 | 3.6 | 0.80 U | 31.7 | 1.3 | 15.5 | 1.6 | 3.5 | 5.5 | 2 |
| Barium | 1.0 | 48.3 J(2) | 128 J(2) | 3320 J(2) | 14.2 J(2) | 290 J(2) | 13.1 J(2) | 66.6 J(2) | 98.9 J(2) | 40 |
| Beryllium | 0.2 | 0.22 | 0.47 | 0.97 | 0.21 U | 0.55 | 0.24 U | 0.22 U | 0.32 | 1 |
| Cadmium | 0.6 | 4.9 | 5.5 | 42.4 | 1.3 | 18.1 | 1.2 | 2.1 | 2.6 | 1 |
| Calcium | 4.0 | 1030 U(1) | 3660 U(1) | 9980 U(1) | 570 U(1) | 5190 U(1) | 346 U(1) | 746 U(1) | 2390 U(1) | 1000 |
| Chromium | 1.0 | 959 | 23.8 | 73.1 | 159 | 129 | 6.7 | 31.3 | 30.9 | 2 |
| Cobalt | 1.0 | 2.2 | 3.2 | 10.7 | 1.5 | 4.9 | 2.9 | 2.0 | 2.2 | 10 |
| Copper | 1.0 | 14.9 J(3) | 153 J(3) | 1330 J(3) | 26.3 J(3) | 184 J(3) | 4.6 J(3) | 10.4 J(3) | 46.3 J(3) | 5 |
| Iron | 1.0 | 6270 | 13800 | 18800 | 4490 | 16100 | 7100 | 4980 | 7120 | 20 |
| Lead | 0.4 | 42.5 J(3) | 68.9 J(3) | 314 J(3) | 33.9 J(3) | 62.4 J(3) | 4.2 J(3) | 19.9 J(3) | 30.0 J(3) | 0.6 |
| Magnesium | 10.0 | 696 | 1020 | 2030 | 414 | 1060 | 787 | 414 | 1140 | 1000 |
| Manganese | 0.2 | 76.9 | 76.7 | 616 | 33.0 U(1) | 482 | 46.7 U(1) | 44.7 U(1) | 58.9 | 3 |
| Mercury | 0.04 | 0.51 | 0.88 | 0.13 U | 0.11 U | 0.17 | 0.12 U | 0.11 U | 0.12 U | 0.04 |
| Nickel | 1.0 | 14.7 | 35.9 | 233 | 4.6 | 118 | 4.9 | 8.2 | 9.9 | 8 |
| Potassium | 80.0 | 192 | 400 | 1260 | 86.8 U | 468 | 214 | 120 | 186 | 1000 |
| Selenium | 0.4 | 0.44 UJ(2) | 0.54 UJ(2) | 0.66 UJ(2) | 0.48 UJ(2) | 0.46 UJ(2) | 0.48 UJ(2) | 0.44 UJ(2) | 0.48 UJ(2) | 1 |
| Silver | 1.0 | 1.10 UJ(1) | 4.9 J(1) | 116 J(1) | 1.10 UJ(1) | 2.2 J(1) | 1.2 UJ(1) | 2.3 J(1) | 1.20 UJ(1) | 2 |
| Sodium | 20.0 | 37.6 U(1) | 103 U(1) | 964 U(1) | 21.60 U | 368 U(1) | 24.0 U | 48.0 U(1) | 76.3 U(1) | 1000 |
| Thallium | 0.4 | 0.44 U | 0.54 U | 0.66 U | 0.43 U | 0.46 U | 0.48 U | 0.44 U | 0.48 U | 2 |
| Vanadium | 1.0 | 16.8 J(4) | 26.1 J(4) | 86.2 J(4) | 8.6 J(4) | 39.2 J(4) | 9.7 J(4) | 10.4 J(4) | 15.9 J(4) | 10 |
| Zinc | 1.0 | 118 J(5) | 208 J(5) | 2830 J(5) | 81.5 J(5) | 386 J(5) | 12.8 U(1) | 139 J(5) | 123 J(5) | 4 |
| Cyanide | 2.0 | 5.5 | 1.7 U | 5.7 | 4.1 | 4.4 | 1.5 U | 1.4 U | 1.5 U | 2 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | |
| PERCENT SOLIDS: | | 90.5 | 74.7 | 60.9 | 93.2 | 86.1 | 83.3 | 91.8 | 83.1 | |

U - Value is a nondetect as reported by the laboratory.
R(1) - Value is considered to be a false positive result because of blank contamination.
UJ(1) - Nondetect is estimated because of low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated because of low MS %R.
UJ(3) - Nondetect is estimated because of laboratory duplicate imprecision.
J(1) - Value is estimated because of low CRDL Standard analysis %R.
J(2) - Value is estimated because of high MS %R.
J(3) - Value is estimated because of low MS %R.
J(4) - Value is estimated because of laboratory duplicate imprecision.
J(5) - Value is estimated because ICP serial dilution result %D exceeded 10%.

CALVERTON
SDG: 2021CS
LABORATORY: NET - CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL - 07A | SOIL - 07B | SOIL - 08 | |
|---|---|---|---|---|---|
| LABORATORY ID: | | 13-12349S | 13-12350S | 46-12463 | |
| ANALYTE | IDL | | | | CRDL |
| ALUMINUM | 4.0 | 117 | 831 | NR | 40 |
| ANTIMONY | 6.0 | 6.2 UJ(1) | 7.5 UJ(1) | NR | 12 |
| ARSENIC | 0.60 | 0.62 U | 0.75 U | NR | 2 |
| BARIUM | 1.0 | 2.6 | 3.3 | NR | 40 |
| BERYLLIUM | 0.20 | 0.21 U | 0.25 U | NR | 1 |
| CADMIUM | 0.60 | 0.62 | 0.75 U | NR | 1 |
| CALCIUM | 4.0 | 38.4 | 43.6 | NR | 1000 |
| CHROMIUM | 1.0 | 2.0 | 2.2 | NR | 2 |
| COBALT | 1.0 | 1.0 U | 1.7 | NR | 10 |
| COPPER | 1.0 | 1.7 | 2.6 | NR | 5 |
| IRON | 1.0 | 1280 | 1060 | NR | 20 |
| LEAD | 20.0 | 2.5 J(1) | 3.6 J(1) | NR | 0.6 |
| MAGNESIUM | 10.0 | 141 | 160 | NR | 1000 |
| MANGANESE | 0.20 | 10.8 | 10.7 | NR | 3 |
| MERCURY | 0.10 | 0.10 U | 0.12 U | NR | 0.10 |
| NICKEL | 1.0 | 1.9 | 1.8 | NR | 8 |
| POTASSIUM | 80.0 | 82.1 U | 99.0 U | NR | 1000 |
| SELENIUM | 0.40 | 0.41 U | 0.50 U | NR | 1 |
| SILVER | 1.0 | 1.0 U | 1.2 U | NR | 2 |
| SODIUM | 20.0 | 20.5 U | 24.9 U | NR | 1000 |
| THALLIUM | 0.40 | 0.41 U | 0.50 U | NR | 2 |
| VANADIUM | 1.0 | 2.8 | 3.8 | NR | 10 |
| ZINC | 1.0 | 8.4 | 10.2 | NR | 4 |
| CYANIDE | 6.0 | 1.3 U | 1.6 U | 1.3 U | 2 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/25/91 | |
| PERCENT SOLIDS: | | 97.4 | 80.2 | 94.6 | |

U – Value is a nondetect as reported by the laboratory.
UJ(1) – Nondetect is estimated due to low CRDL Standard analysis %R.
J(1) – Value is estimated due to high CRDL Standard analysis %R.

NR – Analysis not requested.

CALVERTON
SDG: 2021CS
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL-05 | SOIL-05A | SOIL-05B | SOIL-06 | SOIL-06A | SOIL-06B | SOIL-07 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 13-12342S | 13-12343S | 13-12344S | 13-12345S | 13-12346S | 13-12347S | 13-12348S | |
| ANALYTE | IDL | | | | | | | | CRDL |
| ALUMINUM | 4.0 | 2390 | 4360 | 212 | 1690 | 2380 | 837 | 3360 | 40 |
| ANTIMONY | 6.0 | 8.0 UJ(1) | 7.0 UJ(1) | 7.4 UJ(1) | 6.7 UJ(1) | 6.5 UJ(1) | 6.7 UJ(1) | 6.3 UJ(1) | 12 |
| ARSENIC | 0.60 | 1.8 | 2.5 | 0.74 | 0.67 U | 0.92 | 0.67 U | 0.68 | 2 |
| BARIUM | 1.0 | 14.5 | 9.9 | 1.2 U | 9.2 | 12.7 | 2.8 | 5.3 | 40 |
| BERYLLIUM | 0.20 | 0.27 U | 0.23 U | 0.25 U | 0.22 U | 0.22 U | 0.22 U | 0.21 U | 1 |
| CADMIUM | 0.60 | 0.80 U | 1.0 | 0.74 U | 0.67 U | 0.80 | 0.67 U | 0.63 U | 1 |
| CALCIUM | 4.0 | 110 | 46.4 | 24.3 | 67.9 | 87.0 | 38.0 | 25.2 | 1000 |
| CHROMIUM | 1.0 | 3.1 | 5.5 | 1.2 U | 3.9 | 7.9 | 3.1 | 3.7 | 2 |
| COBALT | 1.0 | 1.3 U | 1.5 | 1.2 U | 1.1 U | 1.1 | 1.3 | 1.1 | 10 |
| COPPER | 1.0 | 3.0 | 3.6 | 1.3 | 2.6 | 5.3 | 3.0 | 1.2 | 5 |
| IRON | 1.0 | 1450 | 4340 | 429 | 1380 | 2210 | 1530 | 3040 | 20 |
| LEAD | 20.0 | 7.2 J(1) | 6.0 J(1) | 2.2 J(1) | 12.4 J(1) | 41.6 J(1) | 3.2 J(1) | 10.7 J(1) | 0.6 |
| MAGNESIUM | 10.0 | 77.0 | 356 | 38.4 | 90.1 | 150 | 154 | 293 | 1000 |
| MANGANESE | 0.20 | 4.9 | 18.9 | 3.4 | 6.8 | 13.0 | 39.9 | 16.5 | 3 |
| MERCURY | 0.10 | 0.13 U | 0.12 U | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 0.10 |
| NICKEL | 1.0 | 1.6 | 2.7 | 1.2 U | 1.2 | 2.1 | 2.1 | 2.0 | 8 |
| POTASSIUM | 80.0 | 107 U | 102 | 98.0 U | 88.7 U | 86.5 U | 89.6 U | 83.7 U | 1000 |
| SELENIUM | 0.40 | 0.84 | 0.48 | 0.49 U | 0.44 U | 0.43 U | 0.45 U | 0.42 U | 1 |
| SILVER | 1.0 | 1.3 U | 1.2 U | 1.2 U | 1.1 U | 1.1 U | 1.1 U | 1.0 U | 2 |
| SODIUM | 20.0 | 63.3 | 54.9 | 33.0 | 29.3 | 27.9 | 30.8 | 20.9 U | 1000 |
| THALLIUM | 0.40 | 0.53 U | 0.47 U | 0.49 U | 0.44 U | 0.43 U | 0.45 U | 0.42 U | 2 |
| VANADIUM | 1.0 | 5.0 | 7.0 | 1.2 U | 4.3 | 5.3 | 3.8 | 5.2 | 10 |
| ZINC | 1.0 | 14.5 | 9.6 | 4.8 | 13.5 | 19.8 | 9.8 | 8.7 | 4 |
| CYANIDE | 6.0 | 1.7 U | 1.5 U | 1.5 U | 1.4 U | 1.4 U | 1.4 U | 1.3 U | 2 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | |
| PERCENT SOLIDS: | | 75.0 | 85.3 | 81.6 | 90.2 | 92.5 | 89.3 | 95.6 | |

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
J(1) - Value is estimated due to high CRDL Standard analysis %R.

INORGANIC SOIL ANALYSES (MG/KG)
CALVERTON
SDG: 2009CS
LABORATORY: NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | SOIL-10 | SOIL-10C | SOIL-10B | SOIL-11 | SOIL-11A | SOIL-11B | SOIL-12A | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 46-12470S | 46-12472S | 46-12471S | 46-12473S | 46-12474S | 46-12475S | 46-12476S | |
| | | FIELD DUPLICATE PAIR | | | | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| ALUMINUM | 4.0 | 3510 | 4790 | 366 | 369 | 386 | 344 | 400 | 40 |
| ANTIMONY | 6.0 | 6.7 UJ(1,2) | 6.7 UJ(1,2) | 7.2 UJ(1,2) | 6.1 UJ(1,2) | 6.4 UJ(1,2) | 7.0 UJ(1,2) | 6.4 UJ(1,2) | 12 |
| ARSENIC | 0.60 | 2.2 | 1.8 | 0.78 | 0.61 U | 0.63 U | 0.71 U | 0.62 U | 2 |
| BARIUM | 1.0 | 9.1 | 13.1 | 1.3 | 1.1 | 1.6 | 1.6 | 1.3 | 40 |
| BERYLLIUM | 0.20 | 0.22 U | 0.22 U | 0.24 U | 0.20 U | 0.21 U | 0.23 U | 0.21 U | 1 |
| CADMIUM | 0.60 | 1.4 J(2) | 1.6 J(2) | 0.72 U | 0.61 U | 0.64 U | 0.70 U | 0.64 U | 1 |
| CALCIUM | 4.0 | 132 | 212 | 36.6 | 47.5 | 51.2 | 46.1 | 26.0 | 1000 |
| CHROMIUM | 1.0 | 4.9 J(7) | 12.7 J(7) | 1.2 UJ(4) | 1.0 UJ(4) | 2.8 J(7) | 1.2 UJ(4) | 1.1 UJ(4) | 2 |
| COBALT | 1.0 | 2.2 | 2.3 | 1.2 U | 1.0 U | 1.1 U | 1.2 U | 1.1 U | 10 |
| COPPER | 1.0 | 23.1 J(5) | 27.2 J(5) | 1.3 J(5) | 1.3 J(5) | 1.4 J(5) | 1.2 UJ(3) | 1.1 UJ(3) | 5 |
| IRON | 1.0 | 4190 | 4870 | 719 | 445 | 943 | 540 | 400 | 20 |
| LEAD | 0.40 | 21.3 J(3,5,7) | 10.7 J(3,5,7) | R(2) | R(2) | R(2) | R(2) | R(2) | 0.60 |
| MAGNESIUM | 10.0 | 414 J(6) | 544 J(6) | 83.6 | 64.3 | 68.0 | 75.7 | 59.5 | 1000 |
| MANGANESE | 0.20 | 34.0 J(5) | 36.6 J(5) | 24.3 J(5) | 12.8 J(5) | 16.4 J(5) | 21.8 J(5) | 14.9 J(5) | 3 |
| MERCURY | 0.10 | 0.10 U | 0.11 U | 0.12 U | 0.10 U | 0.11 U | 0.12 U | 0.10 U | 0.10 |
| NICKEL | 1.0 | 2.8 | 3.4 | 1.2 U | 1.0 U | 1.1 U | 1.2 U | 1.1 U | 8 |
| POTASSIUM | 80 | 116 | 183 | 95.8 U | 81.7 U | 84.7 U | 93.1 U | 84.9 U | 1000 |
| SELENIUM | 0.40 | 0.44 U | 0.44 U | 0.47 U | 0.41 U | 0.42 U | 0.48 U | 0.42 U | 1 |
| SILVER | 1.0 | 2.4 J(1) | 1.1 UJ(1) | 1.2 UJ(1) | 1.0 UJ(1) | 1.1 UJ(1) | 1.2 J(1) | 1.1 UJ(1) | 2 |
| SODIUM | 20 | 36.3 | 22.2 U | 24.0 U | 20.9 | 21.2 U | 30.6 | 21.2 U | 1000 |
| THALLIUM | 0.40 | 0.44 U | 0.44 U | 0.47 U | 0.41 U | 0.42 U | 0.48 U | 0.42 U | 2 |
| VANADIUM | 1.0 | 7.1 | 10.1 | 1.4 | 1.0 U | 2.8 | 1.4 | 1.1 U | 10 |
| ZINC | 1.0 | R(2) | 46.5 J(6) | R(2) | R(2) | R(2) | R(2) | R(2) | 4 |
| CYANIDE | 1.0 | 4.7 J(4) | 1.4 UJ(2) | 1.5 UJ(2) | 1.3 UJ(2) | 1.3 UJ(2) | 1.5 UJ(2) | 1.3 UJ(2) | 2 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | |
| PERCENT SOLIDS: | | 90.2 | 91.1 | 83.5 | 97.0 | 94.4 | 84.2 | 96.1 | |

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to low MS %R.
UJ(3) - Nondetect is estimated due to laboratory duplicate imprecision.
UJ(4) - Nondetect is estimated due to field duplicate imprecision.
J(1) - Value is estimated due to low CRDL Standard analysis %R.
J(2) - Value is estimated due to high CRDL Standard analysis %R.
J(3) - Value is estimated due to noncompliant MS %R.
J(4) - Value is estimated due to low MS %R.
J(5) - Value is estimated due to laboratory duplicate imprecision.
J(6) - Value is estimated due to ICP serial dilution %D > 10%.
J(7) - Value is estimated due to field duplicate imprecision.
R(1) - Value is rejected due to MSA r < 0.990.
R(2) - Value is rejected due to field QC blank contamination > CRDL.

INORGANIC SOIL ANALYSES (MG/KG)
CALVERTON
SDG: 2009CS
LABORATORY: NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | SOIL-08 | SOIL-08C | SOIL-08A | SOIL-08B | SOIL-09 | SOIL-09A | SOIL-09B | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 46-12463S | 46-12466S | 46-12464S | 46-12465S | 46-12467S | 46-12468S | 46-12469S | |
| | | FIELD DUPLICATE PAIR | | | | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| ALUMINUM | 4.0 | 1370 | 864 | 555 | 691 | 3740 | 625 | 579 | 40 |
| ANTIMONY | 6.0 | 6.2 UJ (1,2) | 6.1 UJ(1,2) | 13.2 | 7.4 UJ(1,2) | 6.6 UJ(1,2) | 6.3 UJ(1,2) | 7.1 UJ(1,2) | 12 |
| ARSENIC | 0.60 | 1.1 | 0.63 U | 0.70 | 0.88 | 1.4 | 0.66 | 0.87 | 2 |
| BARIUM | 1.0 | 12.5 | 2.7 | 2.8 | 6.0 | 25.2 | 2.7 | 2.5 | 40 |
| BERYLLIUM | 0.20 | 0.21 U | 0.20 U | 0.21 U | 0.25 U | 0.22 U | 0.21 U | 0.24 U | 1 |
| CADMIUM | 0.60 | 0.98 J(2) | 0.62 U | 0.64 U | 0.74 U | 1.7 J(2) | 0.63 U | 0.71 U | 1 |
| CALCIUM | 4.0 | 110 | 38.9 | 54.0 | 90.7 | 240 | 51.1 | 81.6 | 1000 |
| CHROMIUM | 1.0 | 5.1 J(7) | 3.1 J(7) | 1.8 J(7) | 4.0 J(7) | 12.8 J(7) | 2.1 J(7) | 2.0 J(7) | 2 |
| COBALT | 1.0 | 1.0 U | 1.0 U | 1.1 U | 1.6 | 3.1 | 1.0 U | 1.2 U | 10 |
| COPPER | 1.0 | 3.4 J(5) | 1.5 J(5) | 1.7 J(5) | 3.3 J(5) | 4.6 J(5) | 1.6 J(5) | 2.2 J(5) | 5 |
| IRON | 1.0 | 1940 | 774 | 975 | 819 | 5640 | 537 | 1420 | 20 |
| LEAD | 0.40 | 6.9 J(3,5,7) | 1.7 R(1,2) | R(2) | R(2) | 35.7 J(3,5,7) | R(2) | R(2) | 0.60 |
| MAGNESIUM | 10.0 | 107 J(6) | 60.4 | 82.6 | 115 | 569 J(6) | 84.8 | 115 | 1000 |
| MANGANESE | 0.20 | 9.2 J(5) | 8.1 J(5) | 34.8 J(5) | 9.3 J(5) | 85.1 J(5) | 5.0 J(5) | 11.5 J(5) | 3 |
| MERCURY | 0.10 | 0.11 U | 0.10 U | 0.11 U | 0.12 U | 0.11 U | 0.11 U | 0.12 U | 0.10 |
| NICKEL | 1.0 | 1.0 U | 1.0 U | 1.1 U | 1.9 | 3.1 | 1.0 U | 1.4 | 8 |
| POTASSIUM | 80 | 82.9 U | 82.0 U | 85.4 | 99.0 U | 152 | 83.4 U | 94.5 U | 1000 |
| SELENIUM | 0.40 | 0.41 U | 0.42 U | 0.43 U | 0.50 U | 0.44 U | 0.43 U | 0.48 U | 1 |
| SILVER | 1.0 | 1.0 UJ(1) | 1.0 UJ(1) | 1.1 UJ(1) | 1.2 UJ(1) | 1.1 UJ(1) | 1.0 UJ(1) | 1.2 UJ(1) | 2 |
| SODIUM | 20 | 39.8 | 39.5 | 27.9 | 39.8 | 60.1 | 29.0 | 29.0 | 1000 |
| THALLIUM | 0.40 | 0.41 U | 0.42 U | 0.43 U | 0.50 U | 0.44 U | 0.43 U | 0.48 U | 2 |
| VANADIUM | 1.0 | 3.9 | 1.7 | 3.0 | 2.7 | 7.8 | 3.0 | 2.4 | 10 |
| ZINC | 1.0 | R(2) | R(2) | R(2) | R(2) | 43.9 J(6) | R(2) | R(2) | 4 |
| CYANIDE | 1.0 | 1.3 UJ(2) | 1.3 UJ(2) | 1.3 UJ(2) | 1.5 UJ(2) | 1.4 UJ(2) | 1.3 UJ(2) | 1.5 UJ(2) | 2 |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | |
| PERCENT SOLIDS: | | 94.6 | 96.6 | 93.7 | 80.8 | 91.5 | 94.0 | 83.8 | |

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to low MS %R.
UJ(3) - Nondetect is estimated due to laboratory duplicate imprecision.
UJ(4) - Nondetect is estimated due to field duplicate imprecision.
J(1) - Value is estimated due to low CRDL Standard analysis %R.
J(2) - Value is estimated due to high CRDL Standard analysis %R.
J(3) - Value is estimated due to noncompliant MS %R.
J(4) - Value is estimated due to low MS %R.
J(5) - Value is estimated due to laboratory duplicate imprecision.
J(6) - Value is estimated due to ICP serial dilution %D > 10%.
J(7) - Value is estimated due to field duplicate imprecision.
R(1) - Value is rejected due to MSA r < 0.990.
R(2) - Value is rejected due to field QC blank contamination > CRDL.

CALVERTON
SDG: 2018CS
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL-18B | SOIL-18C | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-16 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 07-12803S | 07-12804S | 07-12805S | 0712806S | 07-12807S | 07-12808S | 07-12809S | |
| ANALYTE | IDL | | | | | | | | CRDL |
| LEAD | 2.0 | 1.50 J | 2.10 J | 21.20 J | 1.60 J | 8.00 J | 5.30 J | 8.30 J | 3.0 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | |
| PERCENT SOLIDS: | | 87.5 | 92.9 | 96.1 | 96.2 | 90.3 | 89.5 | 95.0 | |

J – Result is qualified because of low MS %R.

INORGANIC SOIL ANALYSES (MG/KG)
CALVERTON
SDG: 2009CS
LABORATORY: NET-CAMBRIDGE DIVISION

SAMPLE LOCATION: SOIL-12B
LABORATORY ID: 46-12477S

| ANALYTE | IDL | | CRDL |
|---|---|---|---|
| ALUMINUM | 4.0 | 367 | 40 |
| ANTIMONY | 6.0 | 7.2 UJ(1,2) | 12 |
| ARSENIC | 0.60 | 0.74 U | 2 |
| BARIUM | 1.0 | 1.5 | 40 |
| BERYLLIUM | 0.20 | 0.24 U | 1 |
| CADMIUM | 0.60 | 0.72 U | 1 |
| CALCIUM | 4.0 | 40.6 | 1000 |
| CHROMIUM | 1.0 | 1.2 UJ(4) | 2 |
| COBALT | 1.0 | 1.2 U | 10 |
| COPPER | 1.0 | 1.2 UJ(3) | 5 |
| IRON | 1.0 | 710 | 20 |
| LEAD | 0.40 | R(2) | 0.60 |
| MAGNESIUM | 10.0 | 82.6 | 1000 |
| MANGANESE | 0.20 | 19.2 J(5) | 3 |
| MERCURY | 0.10 | 0.12 U | 0.10 |
| NICKEL | 1.0 | 1.2 U | 8 |
| POTASSIUM | 80 | 96.2 U | 1000 |
| SELENIUM | 0.40 | 0.49 U | 1 |
| SILVER | 1.0 | 1.2 UJ(1) | 2 |
| SODIUM | 20 | 24.1 U | 1000 |
| THALLIUM | 0.40 | 0.49 U | 2 |
| VANADIUM | 1.0 | 1.5 | 10 |
| ZINC | 1.0 | R(2) | 4 |
| CYANIDE | 1.0 | 1.5 UJ(2) | 2 |

DATE SAMPLED: 07/25/91
PERCENT SOLIDS: 82.3

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to low MS %R.
UJ(3) - Nondetect is estimated due to laboratory duplicate imprecision.
UJ(4) - Nondetect is estimated due to field duplicate imprecision.
J(1) - Value is estimated due to low CRDL Standard analysis %R.
J(2) - Value is estimated due to high CRDL Standard analysis %R.
J(3) - Value is estimated due to noncompliant MS %R.
J(4) - Value is estimated due to low MS %R.
J(5) - Value is estimated due to laboratory duplicate imprecision.
J(6) - Value is estimated due to ICP serial dilution %D > 10%.
J(7) - Value is estimated due to field duplicate imprecision.
R(1) - Value is rejected due to MSA r < 0.990.
R(2) - Value is rejected due to field QC blank contamination > CRDL.

CALVERTON
SDG: 2018CS
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL-16A | SOIL-16C | SED04 | SED05 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | 07-12810S | 07-12811S | 07-12812S | 07-12813S | |
| ANALYTE | IDL | | | | | CRDL |
| LEAD | 2.0 | 1.20 J | 5.80 J | 8.30 J | 71.30 J | 3.0 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | |
| PERCENT SOLIDS: | | 89.2 | 94.9 | 84.5 | 94.8 | |

J - Result is qualified because of low MS %R.

INORGANIC SOIL ANALYSES (MG/KG)
CALVERTON
SDG: 2017CS
LABORATORY: NET – CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | SOIL – 15 | SOIL – 15C | SOIL – 15A | SOIL – 17 | SOIL – 17C | SOIL – 17A | SOIL – 18 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 07 – 12791S | 07 – 12792S | 07 – 12793S | 07 – 12797S | 07 – 12798S | 07 – 12799S | 07 – 12801S | |
| | | FIELD DUPLICATE PAIR | | | FIELD DUPLICATE PAIR | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| LEAD | 2.0 | R(2) | R(1,2) | R(1,2) | R(1,2) | R(1,2) | R(1,2) | R(1,2) | 0.6 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | |
| PERCENT SOLIDS: | | 92.8 | 90.4 | 84.6 | 98.0 | 96.7 | 84.9 | 92.8 | |

R(1) Value is rejected due to field blank contamination > CRDL.
R(2) – Value is rejected due to extremely low MS %R (< 10%).

CALVERTON
SDG: 2012CS
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL-22A | SOIL-22B | SOIL-23C | |
|---|---|---|---|---|---|
| LABORATORY ID: | | 82-12669S | 82-12670S | 82-12671S | |
| ANALYTE | IDL | | | | CRDL |
| LEAD | 2.0 | 1.70 U | 1.70 U | 7.20 | 3.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | |
| PERCENT SOLIDS: | | 95.7 | 90.9 | 92.5 | |

U – Result is qualified undetected due to blank contamination.

INORGANIC SOIL ANALYSES (MG/KG)
CALVERTON
SDG: 2017CS
LABORATORY: NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | SOIL-18A | SOIL-19 | SOIL-19A | SOIL-19B | SED-03 | |
|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 07-12802S | 07-12794S | 07-12795S | 07-12796S | 07-12800S | |
| ANALYTE | IDL | | | | | | CRDL |
| LEAD | 2.0 | R(1,2) | R(1,2) | R(1,2) | R(1,2) | R(2) | 0.6 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | |
| PERCENT SOLIDS: | | 92.9 | 96.6 | 95.2 | 78.7 | 94.9 | |

R(1) Value is rejected due to field blank contamination > CRDL.
R(2) – Value is rejected due to extremely low MS %R (< 10%).

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
30067

SOIL01

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12659

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6439

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 11 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.44 | 72 | J |

CALVERTON
SDG: 2012CS
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL-24 | SOIL-24A | SOIL-24B | SOIL-23 | SOIL-23A | SOIL-23B | SOIL-22 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 82-12662S | 82-12663S | 82-12664S | 82-12665S | 82-12666S | 82-12667S | 82-12668S | |
| ANALYTE | IDL | | | | | | | | CRDL |
| LEAD | 2.0 | 2.10 U | 0.95 U | 1.00 U | 8.80 | 1.60 U | 2.40 U | 8.90 | 3.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | |
| PERCENT SOLIDS: | | 95.1 | 96.9 | 82.4 | 91.1 | 95.6 | 87.6 | 93.7 | |

U – Result is qualified undetected due to blank contamination.

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL01B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12661

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6391

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 29 Date Analyzed: 08/06/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 17.02 | 17 | J |
| 2. | UNKNOWN | 29.54 | 560 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

300

SOIL01A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12660

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6440

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 23 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

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

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.39 | 57 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL09

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12467

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D0951

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 13 Date Analyzed: 08/03/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 25.49 | 40 | J |
| 2. | C10H16 ISOMER | 26.97 | 69 | J |
| 3. | CYCLOHEXANE,1,1,3-TRIMETHYL- | 28.21 | 180 | J |
| 4. | UNKNOWN | 37.92 | 420 | J |
| 5. | C10H18 ISOMER | 31.31 | 57 | J |
| 6. | UNKNOWN | 33.44 | 200 | J |
| 7. | UNKNOWN | 39.09 | 160 | J |
| 8. | UNKNOWN | 41.02 | 180 | J |
| 9. | UNKNOWN | 45.06 | 240 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SOIL01BRE

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12661RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6441

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 29 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 16.99 | 29 | J |
| 2. | UNKNOWN | 29.54 | 570 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

SOIL09A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12468

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3223

Level: (low/med) MED Date Received: 07/26/91

% Moisture: not dec. 4 Date Analyzed: 08/03/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | BENZENE, ETHYL METHYL ISOMER | 27.01 | 8600 | J |
| 2. | C10H14 ISOMER | 28.81 | 11000 | J |
| 3. | BENZENE, DIMETHYL ETHYL ISOM | 28.91 | 5900 | J |
| 4. | BENZENE, DIMETHYL ETHYL ISOM | 29.51 | 6500 | J |
| 5. | UNKNOWN | 29.91 | 7500 | J |
| 6. | BENZENE, DIMETHYL ETHYL ISOM | 30.21 | 9500 | J |
| 7. | UNKNOWN ALKANE | 30.81 | 11000 | J |
| 8. | BENZENE, DIMETHYL ETHYL ISOM | 31.31 | 6100 | J |
| 9. | UNKNOWN | 31.41 | 6500 | J |
| 10. | UNKNOWN | 32.21 | 7400 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL09RE

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12467RE

Sample wt/vol: 1.0 (g/mL) G Lab File ID: H9213

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 13 Date Analyzed: 08/06/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN ALKANE | 21.29 | 57 | J |
| 2. | CYCLOHEXANE,1,1,3-TRIMETHYL- | 24.32 | 420 | J |
| 3. | UNKNOWN | 25.64 | 320 | J |
| 4. | UNKNOWN | 25.99 | 510 | J |
| 5. | UNKNOWN | 26.46 | 69 | J |
| 6. | UNKNOWN | 29.14 | 4800 | J |
| 7. | UNKNOWN | 30.54 | 560 | J |
| 8. | UNKNOWN | 32.17 | 860 | J |
| 9. | UNKNOWN | 32.99 | 510 | J |
| 10. | UNKNOWN | 34.22 | 860 | J |
| 11. | UNKNOWN | 36.44 | 4000 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL10A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12478

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D0960

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 13 Date Analyzed: 08/05/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | GUANIDINE | 20.99 | 14 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL09B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12469

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3224

Level: (low/med) MED Date Received: 07/26/91

% Moisture: not dec. 21 Date Analyzed: 08/03/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 23.40 | 2800 | J |
| 2. | UNKNOWN ALKANE | 24.90 | 3300 | J |
| 3. | BENZENE, ETHYL METHYL ISOMER | 25.41 | 2900 | J |
| 4. | BENZENE, ETHYL METHYL ISOMER | 27.01 | 3700 | J |
| 5. | UNKNOWN | 28.81 | 6200 | J |
| 6. | UNKNOWN | 29.91 | 2900 | J |
| 7. | UNKNOWN | 30.21 | 3500 | J |
| 8. | UNKNOWN ALKANE | 30.71 | 4800 | J |
| 9. | BENZENE, DIMETHYL ETHYL ISOM | 31.31 | 2800 | J |
| 10. | UNKNOWN | 31.41 | 2800 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

SOIL13

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12805

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6510

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 Date Analyzed: 08/13/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 6.78 | 5.2 | J |
| 2. | UNKNOWN | 29.44 | 44 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL12A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: [redacted]2476

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D0931

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 11 Date Analyzed: 08/02/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | C10H16 ISOMER | 27.94 | 21 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL14 30

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4030 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12807

Sample wt/vol: 1.0 (g/mL) G Lab File ID: L4692

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 8 Date Analyzed: 08/10/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 22.99 | 1500 | J |
| 2. | C10H22 ISOMER | 23.42 | 1300 | J |
| 3. | UNKNOWN | 24.39 | 2000 | J |
| 4. | BENZENE, ETHYLMETHYL ISOMER | 25.32 | 2000 | J |
| 5. | BENZENE, ETHYLMETHYL ISOMER | 25.67 | 2600 | J |
| 6. | BENZENE, ETHYLMETHYL ISOMER | 26.23 | 2400 | J |
| 7. | BENZENE, ETHYLMETHYL ISOMER | 26.94 | 2300 | J |
| 8. | UNKNOWN ALKANE | 27.37 | 2000 | J |
| 9. | C10H14 ISOMER | 27.99 | 2700 | J |
| | BENZENE, METHYL PROPYL ISOME | 29.19 | 1400 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

SOIL13A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. [illegible] SAS No. _____ SDG No. _____

Matrix: (soil/water) SOIL Lab Sample ID: 128[illegible]

Sample wt/vol: 5.0 (g/mL) G Lab File ID [illegible]

Level (low/med) MED Date Received [illegible]

% Moisture not dry 4 Date Analyzed [illegible]

Column (pack/cap) PACK Dilution Factor 1.0

[illegible] CONCENTRATION UNITS
(ug/L or ug/Kg) [illegible]

| [illegible] | COMPOUND NAME | RT | EST | CONC | [illegible] |
|---|---|---|---|---|---|
| | UNKNOWN ALKANE | 21 30 | | 6400 | [illegible] |
| 2 | UNKNOWN | 22 74 | | [illegible] | [illegible] |
| [illegible] | [illegible] TRIMETHYL | 24 [illegible] | | [illegible] | [illegible] |
| [illegible] | [illegible] | 24 62 | | [illegible] | [illegible] |
| [illegible] | [illegible] ALKANE | 26 [illegible] | | [illegible] | |
| [illegible] | [illegible] | 2[illegible] 11 | | [illegible] | [illegible] |
| | [illegible] ISOME | 30 4[illegible] | | [illegible] | [illegible] |
| | [illegible] ETHYLMETHYL ISOMER | [illegible] | | [illegible] | [illegible] |
| [illegible] | [illegible] ETHYLMETHYL ISOMER | 32 9[illegible] | | [illegible] | [illegible] |
| [illegible] | [illegible] ETHYL DIMETHYL ISOM | 34 17 | | [illegible] | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL16

Lab Name: CAMBPG Contract: NUS

Lab Code: CAMBPG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12809

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6457

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 5 Date Analyzed: 08/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.42 | 57 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 30192

SOIL14A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4030 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12808

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H9253

Level: (low/med) MED Date Received: 07/31/91

% Moisture: not dec. 10 Date Analyzed: 08/02/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 589344 | HEXANE, 3-METHYL- | 20.12 | 7300 | J |
| 2. | UNKNOWN ALKANE | 22.72 | 2200 | J |
| 3. | UNKNOWN | 23.80 | 1700 | J |
| 4. | UNKNOWN | 24.39 | 7600 | J |
| 5. | UNKNOWN | 26.22 | 4600 | J |
| 6. | UNKNOWN | 27.29 | 130000 | J |
| 7. | BENZENE, METHYL ETHYL ISOME | 30.49 | 47000 | J |
| 8. | UNKNOWN | 31.99 | 5300 | J |
| 9. | UNKNOWN | 33.01 | 14000 | J |
| 10 | UNKNOWN | 34.22 | 17000 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL16C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12811

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6459

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 3 Date Analyzed: 08/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.51 | 62 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL14A 30

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4030 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12910

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6450

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 8 Date Analyzed: 08/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/l or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.46 | 21 | J |
| 2. | UNKNOWN | 30.14 | 6.5 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

SOIL18

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12801

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6488

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 9 Date Analyzed: 08/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.57 | 6.5 | J |
| 2. | UNKNOWN | 29.46 | 28 | J |
| 3. | UNKNOWN | 30.14 | 7.6 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL17A 3

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12799

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6486

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 17 Date Analyzed: 08/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.55 | 6.0 | J |
| 2. | UNKNOWN | 29.34 | 42 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL19A 30

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12795

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H9211

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 Date Analyzed: 08/06/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.12 | 6.3 | J |
| 2. | UNKNOWN | 29.52 | 6.3 | J |
| 3. | UNKNOWN | 32.19 | 28 | J |
| 4. | UNKNOWN | 33.07 | 9.4 | J |
| 5. | UNKNOWN | 34.21 | 6.3 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL18B 30

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12803

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H9271

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 12 Date Analyzed: 08/09/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 33.49 | 33 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE 30F17

SOIL22

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12668

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6398

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 8 Date Analyzed: 08/06/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.37 | 97 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL198 30

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12796

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H9212

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 20 Date Analyzed: 08/06/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 33.09 | 79 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL22A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12669

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6467

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 4 Date Analyzed: 08/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.46 | 31 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL22RE 301

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12668RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6437

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 8 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 25.94 | 11 | J |
| 2. | UNKNOWN | 29.47 | 71 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 30159

SOIL23

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12665

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6396

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 22 Date Analyzed: 08/06/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.17 | 130 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

30149

SOIL22B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12670

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6435

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 14 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.44 | 52 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL23C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12671

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6485

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 8 Date Analyzed: 08/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.57 | 9.7 | J |
| 2. | UNKNOWN | 25.97 | 9.8 | J |
| 3. | UNKNOWN | 29.41 | 32 | J |
| 4. | UNKNOWN | 30.16 | 12 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3017

SOIL238

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12667

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6438

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 10 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.37 | 38 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 322

SOIL24A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12663

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6442

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 3 Date Analyzed: 08/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.47 | 11 | J |
| 2. | UNKNOWN | 29.44 | 35 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL24 30199

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12662

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6392

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 5 Date Analyzed: 08/06/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.02 | 4.2 | J |
| 2. | UNKNOWN | 29.42 | 65 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL01

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12659

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2308

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 11 dec. ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 5.0

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.20 | 13000 | J |
| 2. | Unknown aldol | 5.50 | 2300 | J |
| 3. | Unknown | 24.00 | 940 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL24B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12664

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6395

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 16 Date Analyzed: 08/06/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.42 | 16 | J |
| 2. | UNKNOWN | 29.37 | 57 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL01B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12661

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2310

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 29 dec. ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 5.0

Number TICs found: 16

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 18000 | J |
| 2. | Unknown aldol | 5.50 | 3100 | J |
| 3. 132650 | Dibenzothiophene | 20.30 | 1600 | J |
| 4. | Unknown | 21.20 | 2600 | J |
| 5. | Unknown PAH (mw=192) | 21.90 | 1900 | J |
| 6. | Unknown PAH (mw=192) | 21.90 | 2100 | J |
| 7. | Unknown PAH (mw=192) | 22.00 | 940 | J |
| 8. | Unknown | 22.10 | 3800 | J |
| 9. | C16H12 isomer | 22.70 | 1600 | J |
| 10. | Unknown PAH (mw=202) | 23.60 | 1400 | J |
| 11. | Unknown PAH (mw=202) | 24.10 | 2100 | J |
| 12. 243425 | Benzo[b]naphtho[2,3-d]furan | 24.50 | 2100 | J |
| 13. | Unknown PAH (mw=216) | 24.80 | 1600 | J |
| 14. | Unknown PAH (mw=216) | 25.11 | 3300 | J |
| 15. | Unknown PAH (mw=216) | 25.21 | 3500 | J |
| 16. | Unknown PAH (mw=252) | 30.51 | 10000 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL01A 4010

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12660

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2309

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 23 dec. ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 5.0

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown aldol | 5.50 | 2400 | J |
| 2. | Unknown | 26.21 | 1100 | J |
| 3. | Unknown | 29.21 | 1100 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
40
SOIL08A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12464

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2210

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 4 dec. _____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/09/91

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 0.90

Number TICs found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~3.40~~ | ~~5700~~ | ~~J~~ |
| 2. | Unknown aldol | 5.00 | 130 | J |
| 3. | ~~Unknown aldol~~ | ~~5.60~~ | ~~2100~~ | ~~J~~ |
| 4. | ~~Unknown aldol~~ | ~~7.30~~ | ~~310~~ | ~~J~~ |
| 5. | Unknown | 27.51 | 130 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL08 4003

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12463

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2207

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/09/91

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.00

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

Number TICs found: 6

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~3.40~~ | ~~4500~~ | ~~J~~ |
| 2. | ~~Unknown aldol~~ | ~~5.60~~ | 2100 | J |
| 3. | Unknown aldol | 7.20 | 140 | J |
| 4. | C10H16 isomer | 7.80 | 140 | J |
| 5. | C12H7C13 isomer | 21.70 | 280 | J |
| 6. | C12H6C14 isomer | 24.10 | 380 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL09

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12467

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2222

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 13 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/12/91

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.00

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~3.40~~ | ~~5400~~ | ~~J~~ |
| 2. | ~~Unknown aldol~~ | ~~5.60~~ | ~~2400~~ | ~~J~~ |
| 3. | Unknown alkane | 11.10 | 1000 | J |
| 4. | Unknown alkane | 12.80 | 3500 | J |
| 5. | Unknown alkane | 13.10 | 1500 | J |
| 6. | Unknown | 13.60 | 880 | J |
| 7. | Unknown alkane | 13.80 | 1200 | J |
| 8. | Unknown alkane | 14.00 | 2000 | J |
| 9. | Unknown alkane | 14.40 | 2600 | J |
| 10. | Unknown alkane | 14.60 | 1000 | J |
| 11. | Unknown | 15.00 | 1800 | J |
| 12. | Unknown alkane | 15.30 | 1700 | J |
| 13. | Unknown alkane | 15.50 | 3300 | J |
| 14. | Unknown | 15.70 | 1100 | J |
| 15. | Unknown alkane | 15.80 | 5700 | J |
| 16. | Unknown alkane | 15.90 | 1100 | J |
| 17. | Unknown alkane | 15.90 | 1300 | J |
| 18. | Unknown | 16.50 | 2000 | J |
| 19. | Unknown alkane | 16.70 | 2900 | J |
| 20. | Unknown alkane | 17.10 | 2600 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 4003

SOIL08C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12466

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2212

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 2 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/09/91

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.00

Number TICs found: 13

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~3.40~~ | ~~3100~~ | ~~J~~ |
| 2. | ~~Unknown aldol~~ | ~~5.60~~ | ~~2100~~ | ~~J~~ |
| 3. | ~~Unknown aldol~~ | ~~7.30~~ | ~~170~~ | ~~J~~ |
| 4. | C12H7C13 isomer | 21.70 | 610 | J |
| 5. | C12H7C13 isomer | 22.10 | 140 | J |
| 6. | C12H6C14 isomer | 22.60 | 200 | J |
| 7. | C12H6C14 isomer | 22.90 | 310 | J |
| 8. | C12H7C13 isomer | 23.00 | 270 | J |
| 9. | C12H6C14 isomer | 23.20 | 310 | J |
| 10. | C12H6C14 isomer | 23.60 | 170 | J |
| 11. | C12H6C14 isomer | 24.10 | 990 | J |
| 12. | C12H5C15 isomer | 25.00 | 370 | J |
| 13. | C12H5C15 isomer | 25.51 | 240 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

402

SOIL098

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12469

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2257

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 21 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown alkane | 9.20 | 30000 | J |
| 2. | Unknown alkane | 10.50 | 16000 | J |
| 3. | Unknown alkane | 11.20 | 49000 | J |
| 4. | Unknown | 11.60 | 14000 | J |
| 5. | Unknown | 11.80 | 12000 | J |
| 6. | Unknown alkane | 12.30 | 13000 | J |
| 7. | Unknown alkane | 12.90 | 74000 | J |
| 8. | Unknown alkane | 13.10 | 21000 | J |
| 9. | Unknown alkane | 13.70 | 13000 | J |
| 10. | Unknown alkane | 13.90 | 16000 | J |
| 11. | Unknown alkane | 14.00 | 20000 | J |
| 12. | Unknown alkane | 14.40 | 38000 | J |
| 13. | Unknown | 15.10 | 17000 | J |
| 14. | Unknown alkane | 15.30 | 12000 | J |
| 15. | Unknown alkane | 15.50 | 25000 | J |
| 16. | Unknown alkane | 15.90 | 51000 | J |
| 17. | Dimethylnaphthalene isomer | 16.00 | 12000 | J |
| 18. | Unknown | 16.50 | 11000 | J |
| 19. | Unknown alkane | 16.70 | 23000 | J |
| 20. | Unknown alkane | 17.20 | 21000 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

4017

SOIL09A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12468

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2281

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 5.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown alkane | 9.20 | 37000 | J |
| 2. | Unknown alkane | 9.70 | 33000 | J |
| 3. | Unknown | 10.30 | 26000 | J |
| 4. | Unknown | 10.50 | 21000 | J |
| 5. | Unknown alkane | 11.20 | 35000 | J |
| 6. | Unknown | 11.60 | 9600 | J |
| 7. | Unknown | 11.80 | 8200 | J |
| 8. | Unknown alkane | 12.30 | 7800 | J |
| 9. | Unknown alkane | 12.90 | 47000 | J |
| 10. | Unknown alakne | 13.10 | 14000 | J |
| 11. | Unknown | 13.30 | 7500 | J |
| 12. | Unknown alkane | 13.90 | 8500 | J |
| 13. | Unknown alkane | 14.00 | 15000 | J |
| 14. | Unknown alakne | 14.50 | 24000 | J |
| 15. | Unknown | 15.10 | 21000 | J |
| 16. | Unknown alkane | 15.50 | 30000 | J |
| 17. | Unknown alkane | 15.90 | 77000 | J |
| 18. | C12H12 isomer | 16.00 | 17000 | J |
| 19. | Unknown alkane | 16.70 | 30000 | J |
| 20. | Unknown alkane | 17.20 | 26000 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL10C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12472

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2163

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 7 dec. ____ Date Extracted: 08/02/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 14

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.50 | 8500 | J |
| 2. | ~~Unknown aldol~~ | ~~5.70~~ | ~~2600~~ | ~~J~~ |
| 3. | Unknown | 18.50 | 250 | J |
| 4. | Unknown | 23.90 | 140 | J |
| 5. | Unknown | 24.30 | 320 | J |
| 6. | Unknown | 24.60 | 250 | J |
| 7. | Unknown | 25.81 | 1800 | J |
| 8. | Unknown | 26.61 | 320 | J |
| 9. | Unknown | 27.01 | 1200 | J |
| 10. | Unknown | 27.51 | 470 | J |
| 11. | Unknown phthalate | 27.81 | 2600 | J |
| 12. | Unknown | 28.31 | 250 | J |
| 13. | Unknown | 29.21 | 210 | J |
| 14. | Unknown | 35.81 | 250 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL10B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12471

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2291

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 6 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

Number TICs found: 4

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.50 | 8500 | J |
| 2. | ~~Unknown aldol~~ | ~~5.60~~ | ~~2600~~ | ~~J~~ |
| 3. | Unknown aldol | 7.20 | 140 | J |
| 4. | ~~Unknown~~ | ~~18.40~~ | ~~250~~ | ~~J~~ |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

403

SOIL11A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12474

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2165

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 1 dec. ____ Date Extracted: 08/02/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~3.40~~ | ~~3200~~ | ~~J~~ |
| 2. | ~~Unknown aldol~~ | ~~5.78~~ | ~~2700~~ | ~~J~~ |
| 3. | Propanioc acid, substituted | 18.50 | 270 | J |
| 4. | Unknown | 23.90 | 200 | J |
| 5. | Unknown | 24.30 | 340 | J |
| 6. | Unknown | 25.71 | 130 | J |
| 7. | Unknown | 25.91 | 130 | J |
| 8. | Unknown alkane | 26.61 | 240 | J |
| 9. | Unknown phthalate | 27.81 | 940 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL11 40

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12473

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2164

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 27 dec. ____ Date Extracted: 08/02/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.50 | 6800 | J |
| 2. | ~~Unknown aldol~~ | ~~5.70~~ | ~~3700~~ | ~~J~~ |
| 3. | Propanioc acid, substituted | 18.50 | 320 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE 4MD3

SOIL11B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12475

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2166

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 22 dec. ____ Date Extracted: 08/02/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.50 | 20000 | J |
| 2. | ~~Unknown aldol~~ | ~~5.70~~ | ~~2900~~ | ~~J~~ |
| 3. | Propanioc acid, substituted | 18.50 | 340 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL12A 40404

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12476

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2167

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 11 dec. ____ Date Extracted: 08/02/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/06/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.60 | 10000 | J |
| 2. | ~~Unknown alcol~~ | ~~3.70~~ | ~~3700~~ | ~~J~~ |
| 3. | ~~Unknown~~ Propanoic acid, [illegible] | 18.50 | 300 | J |
| 4. | Unknown | 26.61 | 150 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: SOIL12B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12477

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2187

Level: (low/med) LOW Date Received: 07/26/91

% Moisture: not dec. 22 dec. ____ Date Extracted: 08/02/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/08/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

Number TICs found: 6

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.60 | 14000 | J |
| 2. | ~~Unknown aldol~~ | ~~5.70~~ | ~~3400~~ | ~~J~~ |
| 3. | ~~Unknown~~ | ~~7.30~~ | ~~170~~ | ~~J~~ |
| 4. | ~~Unknown~~ | ~~18.40~~ | ~~300~~ | ~~J~~ |
| 5. | Unknown | 24.20 | 260 | J |
| 6. | ~~Unknown phthalate~~ | ~~27.71~~ | ~~380~~ | ~~J~~ |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL13

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12805

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7326

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 4.50 | 4200 | J |
| 2. | Unknown aldol | 6.80 | 3200 | J |
| 3. | Unknown | 19.60 | 170 | J |
| 4. | Unknown | 33.61 | 10000 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 40265

SOIL13A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12806

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7384

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 dec. _____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/22/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 5.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown alkane | 10.30 | 28000 | J |
| 2. | Unknown alkane | 10.80 | 21000 | J |
| 3. | Unknown | 11.40 | 17000 | J |
| 4. | Unknown alkane | 12.30 | 12000 | J |
| 5. | Unknown alkane | 12.50 | 4400 | J |
| 6. | Unknown | 13.20 | 5200 | J |
| 7. | Unknown | 13.30 | 3100 | J |
| 8. | Unknown alkane | 13.39 | 5200 | J |
| 9. | Unknown alkane | 13.40 | 4000 | J |
| 10. | Unknown alkane | 14.00 | 12000 | J |
| 11. | Unknown alkane | 14.20 | 5200 | J |
| 12. | Unknown | 14.40 | 4000 | J |
| 13. | Unknown | 14.60 | 3800 | J |
| 14. | Unknown alkane | 15.00 | 3700 | J |
| 15. | Unknown alkane | 15.10 | 4400 | J |
| 16. | Unknown | 16.20 | 24000 | J |
| 17. | Unknown alkane | 16.60 | 17000 | J |
| 18. | Unknown alkane | 17.00 | 59000 | J |
| 19. | Unknown alkane | 17.80 | 31000 | J |
| 20. | Unknown alkane | 18.30 | 28000 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SOIL14

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12807

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7385

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 8 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/22/91

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 10.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---|---|---|---|---|
| 1. | Unknown alkane | 10.80 | 18000 | J |
| 2. | Unknown alkane | 12.20 | 6200 | J |
| 3 2958761 | Naphthalene, decahydro-2-meth | 12.80 | 4300 | J |
| 4 | Unknown | 13.20 | 8000 | J |
| 5. | Unknown alkane | 13.30 | 4300 | J |
| 6. | Unknown alkane | 13.40 | 6500 | J |
| 7. | Unknown | 13.80 | 4700 | J |
| 8. | Unknown alkane | 13.90 | 7600 | J |
| 9 | C13H28 isomer | 14.10 | 11000 | J |
| 10. | Unknown | 14.40 | 5100 | J |
| 11. | Unknown | 14.60 | 6500 | J |
| 12 | Unknown alkane | 14.80 | 4700 | J |
| 13 | Unknown alkane | 15.00 | 5100 | J |
| 14 | Unknown alkane | 15.10 | 12000 | J |
| 15 | Unknown alkane | 15.70 | 5100 | J |
| 16 | Unknown | 15.80 | 5400 | J |
| 17 | Unknown | 16.20 | 16000 | J |
| 18. | Unknown alkane | 16.60 | 19000 | J |
| 19. | Unknown alkane | 17.00 | 9000 | J |
| 20 | Unknown alkane | 17.80 | 21000 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL14RE

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12807RE

Sample wt/vol: 30 0 (g/mL) G Lab File ID: F7419

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 8 dec. _____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/91

GPC Cleanup: (Y/N) N pH: 7 1 Dilution Factor: 10 0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown alkane | 10.70 | 16000 | J |
| 2. | Unknown alkane | 12.10 | 5400 | J |
| 3 2958761 | Naphthalene, decahydro-2-meth | 12.70 | 3600 | J |
| 4 | C10H14 isomer | 13.10 | 6500 | J |
| 5. | Unknown alkane | 13.30 | 4700 | J |
| 6. | Unknown alkane | 13.80 | 6900 | J |
| 7. | C13H28 isomer | 14.00 | 10000 | J |
| 8. | Unknown | 14.30 | 6500 | J |
| 9. | Unknown | 14.60 | 3600 | J |
| 10 | Unknown alkane | 14.70 | 4000 | J |
| 11. | Unknown | 14.90 | 5100 | J |
| 12 | Unknown alkane | 15.00 | 11000 | J |
| 13 | Unknown alkane | 15.60 | 4300 | J |
| 14 | Unknown | 15.80 | 5400 | J |
| 15 | Unknown | 16.10 | 11000 | J |
| 16 | Unknown alkane | 16.50 | 21000 | J |
| 17 | Unknown alkane | 16.80 | 12000 | J |
| 18 | Unknown alkane | 16.90 | 8300 | J |
| 19 | Dimethylnaphthalene isomer | 17.00 | 7200 | J |
| 20 | Unknown alkane | 17.70 | 19000 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE
SOIL14A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12808

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7386

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 10 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/22/91

GPC Cleanup (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | G |
|---|---|---|---|---|
| 1. | Unknown | 4.40 | 4400 | J |
| 2. | Unknown aldol | 6.70 | 1400 | J |
| 3. | Unknown alkane | 10.30 | 1700 | J |
| 4. | Unknown alkane | 12.20 | 1700 | J |
| 5. | Unknown | 13.10 | 520 | J |
| 6. | Unknown alkane | 13.30 | 560 | J |
| 7. | Unknown alkane | 13.90 | 2600 | J |
| 8. | Unknown alkane | 14.10 | 850 | J |
| 9. | Unknown | 14.30 | 520 | J |
| 10. | Unknown | 14.50 | 590 | J |
| 11. | Unknown alkane | 14.80 | 520 | J |
| 12. | C18H28 isomer | 14.90 | 740 | J |
| 13. | Unknown alkane | 15.00 | 670 | J |
| 14. | Unknown alkane | 15.00 | 1100 | J |
| 15. | Unknown | 16.10 | 700 | J |
| 16. | Unknown alkane | 16.40 | 630 | J |
| 17. | Unknown alkane | 16.90 | 3200 | J |
| 18. | Unknown alkane | 17.70 | 1100 | J |
| 19. | Unknown alkane | 18.20 | 1000 | J |
| 20. | Unknown alkane | 19.50 | 630 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO
SOIL15

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12791

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2311

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 7 dec. _____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.00

Number TICs found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 14000 | J |
| 2. | Unknown aldol | 5.50 | 2000 | J |
| 3. | Unknown | 24.10 | 190 | J |
| 4. | Unknown | 24.30 | 140 | J |
| 5. | Unknown | 24.40 | 360 | J |
| 6. | Unknown | 25.81 | 570 | J |
| 7. | Unknown | 26.21 | 140 | J |
| 8. | Unknown | 26.81 | 820 | J |
| 9. | Unknown | 27.51 | 140 | J |
| 10. | Unknown phthalate | 27.61 | 1400 | J |
| 11. | Unknown | 29.51 | 290 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL15A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12793

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2315

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 16 dec. _____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.00

Number TICs found: 7

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 8700 | J |
| 2 | Unknown aldol | 5.50 | 3100 | J |
| 3. | Unknown | 18.30 | 160 | J |
| 4. | Unknown | 24.30 | 160 | J |
| 5. | Unknown | 24.50 | 160 | J |
| 6. | Unknown | 26.21 | 240 | J |
| 7. | Unknown | 29.51 | 160 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL15C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12792

Sample wt/vol: 30 0 (g/mL) G Lab File ID: J2314

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec 8 dec. _____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1 00

Number TICs found: 6

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 12000 | J |
| 2. | Unknown aldol | 5.50 | 1700 | J |
| 3. | Unknown | * 24.30 | 140 | J |
| 4 | Unknown | 26.21 | 220 | J |
| 5 | Unknown | 29.21 | 180 | J |
| 6 | Unknown | 30.51 | 180 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL16

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12809

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2284

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 5 dec. _____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 6000 | J |
| 2. | Unknown aldol | 5.60 | 2800 | J |
| 3. | Unknown | 18.40 | 210 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL16A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12810

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2287

Level (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 8 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | G |
|---|---|---|---|---|
| 1. | Unknown | 3.50 | 8300 | J |
| 2. | Unknown aldol | 5.60 | 2100 | J |
| 3. | Unknown | 12.40 | 220 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO
SOIL16C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12511

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2238

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 3 dec. _____ Date Extracted: 08/03/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH 7.0 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.20 | 3200 | J |
| 2. | Unknown aldol | 5.50 | 3200 | J |
| 3. | Unknown | 15.40 | 211 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO
SOIL17

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12797

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2412

Level (low/med) LOW Date Received: 07/31/91

% Moisture: not dec 2 dec ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/91

GPC Cleanup (Y/N) N pH 7.1 Dilution Factor: 1.00

Number TICs found: 5

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1 | 1193119 | 1,3-Dioxolane, 2,2,4-trimeth | 2.60 | 1700 | J |
| 2 | | Unknown | 3.20 | 5200 | J |
| 3 | | Unknown aldol | 5.30 | 2400 | J |
| 4 | | Unknown | 18.10 | 140 | J |
| 5. | | Unknown | 26.01 | 310 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL17A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID. 12799

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2414

Level (low/med) LOW Date Received 07/31/91

% Moisture not dec. 17 dec. ____ Date Extracted 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/91

GPC Cleanup (Y/N) N pH: 6.7 Dilution Factor: 1.00

Number TICs found 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1 | Unknown | 3.20 | 10000 | J |
| 2 | Unknown aldol | 5.30 | 2300 | J |
| 3 | [illegible] | 15.10 | 241 | |
| 4 | [illegible] | 26.01 | 240 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL170

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. FD4030 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 1279

Sample wt/vol: 30.0 (g/mL) G Lab File ID: U2413

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 11 dec. _____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/91

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.00

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.20 | 6700 | J |
| 2. | [illegible] | 5.30 | 217 | J |
| 3. | [illegible] | 18.10 | [illegible] | J |
| 4. | Unknown | 26.01 | 451 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SOIL18

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12601

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2427

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 8 dec. _____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/91

GPC Cleanup: (Y/N) N pH: 9.2 Dilution Factor 1.00

Number TICs found. 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.20 | 12000 | J |
| 2. | Unknown aldol | 5.40 | 7600 | J |
| 3. | Unknown | 16.10 | 1[illegible] | J |
| 4. | Unknown | 25.91 | 360 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SOIL16A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12800

Sample wt/vol: 30.0 (g/mL) G Lab File ID F7409

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 dec ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/91

GPC Cleanup (Y/N) N pH 10.2 Dilution Factor: 1.00

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 4.40 | 4500 | J |
| 2. | Unknown | 5.60 | 170 | J |
| 3 | Unknown aldol | 6.80 | 25000 | J |
| 4 | Unknown | 19.50 | 170 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL18B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12803

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7410

Level: (low/med) LOW Date Received: 07/31/91

% Moisture not dec. 12 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/91

GPC Cleanup: (Y/N) N pH: 9.5 Dilution Factor: 1.00

Number TICs found 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | G |
|---|---|---|---|---|
| 1 | Unknown | 4.40 | 4900 | J |
| 2 | Unknown alcol | 6.70 | 2300 | J |
| 3 | Unknown | 19.50 | 190 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL18C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12604

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7411

Level (low/med) LOW Date Received: 07/31/91

% Moisture not dec 7 dec. _____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/91

GPC Cleanup: (Y/N) N pH 9.3 Dilution Factor: 1.00

Number TICs found 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1 | Unknown | 4.40 | 5400 | J |
| 2 | Unknown | 5.60 | 180 | J |
| 3 | Unknown alcohol | 6.90 | 2600 | J |
| 4 | Unknown | 19.50 | 210 | J |

4010

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL19

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12754

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7407

Level (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 3 dec. _____ Date Extracted: 08/07/91

Extraction (SepF/Cont/Sonc) SONC Date Analyzed: 08/20/91

GPC Cleanup (Y/N) N pH 5.6 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 4.50 | 7900 | J |
| | Unknown alcohol | 6.70 | 2700 | J |
| | [illegible] | 19.50 | 210 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SOIL19A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4030 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12795

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7408

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/91

GPC Cleanup: (Y/N) N pH 6.3 Dilution Factor: 1.00

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 4.50 | 6900 | J |
| 2. | Unknown aldol | 6.70 | 2600 | J |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE
SOIL19B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12796

Sample wt/vol 30.0 (g/mL) G Lab File ID: F7414

Level: (low/med) LOW Date Received: 07/31/91

% Moisture not dec 20 dec. _____ Date Extracted: 08/07/91

Extraction (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/91

GPC Cleanup (Y/N) N pH 7.2 Dilution Factor: 1.00

Number TICs found 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---|---|---|---|---|
| 1 | Unknown | 4.40 | 4600 | J |
| 2 | Unknown aldol | 6.70 | 2700 | J |
| 3 | Unknown | 19.50 | 170 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

4016

SOIL22

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12668

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2264

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 8 dec. _____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.00

Number TICs found: 16

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 7600 | J |
| 2. | Unknown aldol | 5.60 | 2500 | J |
| 3. | Unknown alkane | 14.30 | 180 | J |
| 4. | Unknown alkane | 15.40 | 180 | J |
| 5. | Unknown alkane | 15.80 | 360 | J |
| 6. | Unknown alkane | 16.60 | 470 | J |
| 7. | Unknown | 16.70 | 140 | J |
| 8. | Unknown alkane | 17.10 | 540 | J |
| 9. | Unknown alkane | 18.40 | 720 | J |
| 10. | Unknown | 19.20 | 400 | J |
| 11. | Unknown alkane | 19.60 | 690 | J |
| 12. | Unknown alkane | 19.70 | 1300 | J |
| 13. | Unknown alkane | 20.70 | 290 | J |
| 14. | Unknown alkane | 20.80 | 510 | J |
| 15. | Unknown alkane | 21.80 | 290 | J |
| 16. | Unknown alkane | 22.80 | 250 | J |

1F

EPA SAMPLE 401

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SOIL22A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12669

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2265

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.00

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 5600 | J |
| 2. | Unknown aldol | 5.60 | 2400 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

402

SOIL22B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12670

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2266

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.7 Dilution Factor: 1.00

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 5800 | J |
| 2. | Unknown aldol | 5.60 | 3200 | J |
| 3. | Unknown aldol | 7.20 | 150 | J |
| 4. | Unknown | 30.01 | 190 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

4024

SOIL23

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12665

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2261

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 22 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.00

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 8100 | J |
| 2. | Unknown aldol | 5.60 | 2200 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE 40

SOIL23C

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: #12671

Sample wt/vol: 30.0 (g/mL) G___ Lab File ID: J2267

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 8 dec. ____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 4.9 Dilution Factor: 1.00

Number TICs found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 7600 | J |
| 2. | Unknown aldol | 5.60 | 2700 | J |
| 3. | Unknown aldol | 7.20 | 180 | J |
| 4. | Unknown PAH mw=216 | 25.11 | 140 | J |
| 5. | Unknown | 35.91 | 470 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL23A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12666

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2262

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 4 dec. ____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 7300 | J |
| 2. | Unknown aldol | 5.60 | 1800 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL23B 40

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12667

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2263

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 10 dec. ____ Date Extracted: 08/06/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.7 Dilution Factor: 1.00

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

Number TICs found: 4

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 4800 | J |
| 2. | Unknown aldol | 4.90 | 150 | J |
| 3. | Unknown aldol | 5.60 | 1700 | J |
| 4. | Unknown | 30.01 | 150 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 40

SOIL24

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12662

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2282

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 5 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.00

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 2600 | J |
| 2. | Unknown aldol | 5.50 | 2000 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 403

SOIL24A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12663

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2259

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 3 dec. _____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 1400 | J |
| 2. | Unknown aldol | 5.60 | 2100 | J |
| 3. | Unknown aldol | 7.20 | 140 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL24B

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12664

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2260

Level: (low/med) LOW Date Received: 07/30/91

% Moisture: not dec. 16 dec. ____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/14/91

GPC Cleanup: (Y/N) N pH: 5.7 Dilution Factor: 1.00

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 2800 | J |
| 2. | Unknown aldol | 5.50 | 2000 | J |
| 3. | Unknown aldol | 7.20 | 320 | J |

# MONITORING WELLS

CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | MW-7 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11823 | 11822 | 11820 | 11821 | 12029 | 12030 | 11825 |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 10 | 10 U | 10 U | 10 U | 5 U | 10 U | 5 UJ(2) | 13 UJ(2) |
| Carbon Disulfide | 5 | 5 U | 5U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 1 J(1) | 5 U | 5 U | 53 J(2) | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 3 J(1) | 5 U | 5 U | 26 J(2) | 12 | 19 |
| 1,2-Dichloroethene(total) | 5 | 5 U | 1 J(1) | 5 U | 5 U | 5 U | 7 | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | R | R | R | R | 10 U | 10 U | 10 UJ(1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 | 2 J(1) | 5 U | 20 J(2) | 11 | 9 |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 J(2) | 1 J(1) | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 UJ(1) | 10 UJ(1) | 10 UJ(1) | 10 UJ(1) | 10 U | 10 UJ(1) | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 J(2) | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 56 J(2) | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 10 J(2) | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 120 J(2) | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/18/91 | 07/16/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/28/91 | 07/29/91 | 07/25/91 |

CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | TB-3 | TB-4 | FB-1 | RINSATE-3 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11829 | 12031 | 12037 | 11828 |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 2600 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J(1) | 2 J(1) | 5 U | 5 U |
| Acetone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 26 J(4) |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 27 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 300 | 6 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 23 | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 3 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ(1) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 140 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 68 | 5 U | 32 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 450 | 5 U | 290 J(3) | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/18/91 | 07/16/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/28/91 | 07/26/91 | 07/29/91 | 07/26/91 | 07/29/91 | 07/28/91 | 07/26/91 |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET - CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW16FP | MW11FP | MW3 | MW4 | MW5 | RINSATE5 |
|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12231 | 12232 | 12259 | 12260 | 12261 | 12262 |
| | | | | | | | Rinaste Blank |
| COMPOUND | CRQL | | | | | | |
| Chloromethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 UJ (2) | 10 U |
| Bromomethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Vinyl Chloride | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Chloroethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 4500 | 10 U |
| Methylene Chloride | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Acetone | 10 | 5000 UJ (1) | 5000 U | 10 U (1) | 10 U | 1000 U | 45 |
| Carbon Disulfide | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1 - Dichloroethene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1 - Dichloroethane | 5 | 2500 UJ (1) | 2500 U | 4 J (1) | 8 | 1700 | 5 U |
| 1,2 - Dichloroethene (total) | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 790 | 5 U |
| Chloroform | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,2 - Dichloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 2 - Butanone | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| 1,1,1 - Trichloroethane | 5 | 2500 UJ (1) | 2500 U | 24 | 50 | 130 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Vinyl Acetate | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Bromodichloromethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,2 - Dichloropropane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| cis - 1,3 - Dichloropropene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Trichloroethene | 5 | 2500 UJ (1) | 2500 U | 10 | 5 | 500 U | 5 U |
| Dibromochloromethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1,2 - Trichloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Benzene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| trans - 1,3 - Dichloropropene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Bromoform | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 4 - Methyl - 2 - pentanone | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| 2 - Hexanone | 10 | 5000 UJ (1) | 5000 UJ (2) | 10 U | 10 U | 1000 U | 10 U |
| Tetrachloroethene | 5 | 2500 UJ (1) | 2500 U | 1 J (1) | 2 J (1) | 500 U | 5 U |
| 1,1,2,2 - Tetrachloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Toluene | 5 | 2500 UJ (1) | 2500 U | 2 J (1) | 5 U | 320 J (1) | 5 U |
| Chlorobenzene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Ethylbenzene | 5 | 2500 UJ (1) | 2500 U | 12 | 5 U | 500 U | 5 U |
| Styrene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Total Xylenes | 5 | 2500 UJ (1) | 2500 U | 86 | 5 U | 300 J (1) | 5 U |
| DILUTION FACTOR: | | 500 | 500 | 1.0 | 1.0 | 100 | 1.0 |
| DATE SAMPLED: | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 08/01/91 | 07/31/91 |

U (1) - Value is considered to be a false positive due to blank contamination.
UJ (1) - Value is estimated due to surrogate %Rs outside QC limits.
UJ (2) - Value is estimated due to continuing calibration %D > 50.
J (1) - Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET - CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | TB5 | MW4FP | MW5FP | MW6 | TB6 |
|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12263 | 12264 | 12265 | 12351 | 12352 |
| | | Trip Blank | | | | Trip Blank |
| COMPOUND | CRQL | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 500 UJ (1) | 500 UJ (1) | 10 UJ (2) |
| Bromomethane | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 4000 | 10 U | 10 U |
| Methylene Chloride | 5 | 2 J (1) | 5 U (1) | 250 U | 5 U | 2 J (1) |
| Acetone | 10 | 10 U | 35 U (1) | 500 U (1) | 6 U (1) | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 3 J (1) | 1800 | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 670 | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 8 | 250 U | 1 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 190 J (1) | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 50 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 07/31/91 | 07/31/91 | 08/01/91 | 08/01/91 | 08/01/91 |

U (1) – Value is considered to be a false positive due to blank contamination.
UJ (1) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because reported concentration is less than the CRQL.

CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 006TB | 007RINSATE | MW15 | MW16 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11555 | 11556 | 11557 | 11559 | 11558 | 11640 | 11641 |
| | | | | | Trip Blank | Rinsate Blank | | |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Bromomethane | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Vinyl Chloride | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Methylene Chloride | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Acetone | 10 | 17 U (1) | 150 U (1) | 50 U | 10 U | 38 | 10 U | 50 UJ (2) |
| Carbon Disulfide | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1-Dichloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1-Dichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Chloroform | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 2-Butanone | 10 | 10 U | R (1) | 50 U | R (1) | R (1) | 10 U | R (1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Carbon Tetrachloride | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Vinyl Acetate | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Bromodichloromethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloropropane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Trichloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Dibromochloromethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Benzene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 14 J (1) |
| trans-1,3-Dichloropropene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Bromoform | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| 2-Hexanone | 10 | 10 U | 50 U | 50 U | 10 U | 10 UJ (2) | 10 U | 50 U |
| Tetrachloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Toluene | 5 | 5 U | 25 U | 33 | 5 U | 5 U | 2 J (1) | 130 |
| Chlorobenzene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Ethylbenzene | 5 | 5 U | 25 U | 120 | 5 U | 5 U | 5 U | 84 |
| Styrene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Total Xylenes | 5 | 5 U | 720 | 960 | 5 U | 5 U | 27 | 450 |
| DILUTION FACTOR: | | 1.0 | 5.0 | 5.0 | 1.0 | 1.0 | 1.0 | 5.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 |
| DATE ANALYZED: | | 07/23/91 | 07/24/91 | 07/19/91 | 07/24/91 | 07/26/91 | 07/19/91 | 07/25/91 |

U (1) – Value is considered a false positive due to blank contamination.
UJ (2) – Value is estimated due to continuing calibration %D > 50
J (1) – Value is estimated because it is reported at a concentration less than the CRQL.
R (1) – Value is rejected due to initial calibration RRF < 0.05.

CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW17 | MW18 | MW19 | TB2 |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11644 | 11643 | 11642 | 11645 |
| | | | | | Trip Blank |
| COMPOUND | CRQL | | | | |
| Chloromethane | 10 | 10 U | 50 U | 10 U | 1 J (1) |
| Bromomethane | 10 | 10 U | 50 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 50 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 25 U | 5 U | 1 J (1) |
| Acetone | 10 | 10 UJ (2) | 50 UJ (2) | 10 UJ (2) | 6 J (1) |
| Carbon Disulfide | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 25 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 2-Butanone | 10 | R (1) | R (1) | R (1) | R (1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 25 U | 1 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 25 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 50 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 25 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 25 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 25 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 390 | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 25 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 25 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 50 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 50 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 540 | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 25 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 | 100 | 5 U | 5 U |
| Styrene | 5 | 5 U | 25 U | 5 U | 5 U |
| Total Xylenes | 5 | 10 | 270 | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |

UJ (2) - Value is estimated due to continuing calibration %D > 50.
J (1) - Value is estimated because it is reported at a concentration less than the CRQL.
R (1) - Value is rejected due to initial calibration RRF < 0.05.

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Semivolatile Aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | MW-7 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11823 | 11822 | 11820 | 11821 | 12029 | 12030 | 11825 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 12 J(1) | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 3 J(1) |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 44 J(1) | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 110 | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 07/29/91 |

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Semivolatile Aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | MW-7 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11823 | 11822 | 11820 | 11821 | 12029 | 12030 | 11825 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 250U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 UJ(1) |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ(1) | 20 UJ(1) | 20 UJ(1) | 20 UJ(1) | 100UJ(1) | 20 UJ(1) | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 2 J(1) | 2 J(1) | 2 J(1) | 10 U | 32 J(1) | 10 U | 3 J(1) |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 07/29/91 |

J(1) – Value estimated because conc ion is < CRQL.
) – elec ate to c ion' 50.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | MW16FP | MW11FP | MW3 | MW1 | MW5 | RINSATE5 | MW4FP | MW9FP | MW6 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12231 | 12232 | 12236 | 12230 | 12261 | 12260 Rinsate Blank | 12264 | 12263 | 12251 |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 50 | 100000 U | 5000000 U | 50 UJ (1) | 50 UJ (1) | 250 U | 50 UJ (1) | 100000 U | 100000 U | 50 U |
| Acenaphthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dinitrophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| 4-Nitrophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Dibenzofuran | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Diethylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Fluorene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Nitroaniline | [illegible] | 100000 U | 5000000 U | 50 UJ (1) | 50 UJ (1) | 250 U | 50 UJ (1) | 100000 U | 100000 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Pentachlorophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Phenanthrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Di-n-butylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Pyrene | 10 | 20000 U (1) | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U (1) | 20000 U (1) | 10 U |
| Butylbenzylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 40000 UJ (1) | 2000000 UJ (1) | 20 UJ (1) | 20 UJ (1) | 100 U | 20 UJ (1) | 40000 UJ (1) | 40000 UJ (1) | 20 U |
| Benzo(a)anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Chrysene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 20000 U | 990000 U | 10 U (1) | 10 U (1) | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Di-n-octylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(b)fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(k)fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(a)pyrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| DILUTION FACTOR | | 10 | 50 | 10 | 10 | 50 | 10 | 10 | 10 | 10 |
| DATE SAMPLED: | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/31/91 | 07/31/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/31/91 | 07/31/91 | 07/30/91 |
| DATE ANALYZED: | | 08/01/91 | 08/02/91 | 08/14/91 | 08/14/91 | 08/22/91 | 08/14/91 | 08/01/91 | 08/01/91 | 08/22/91 |

U (1) - Value is considered a false positive due to blank contamination
UJ (1) - Value is estimated due to continuing calibration %D > 50.

SITE: CALVERTON
CASE NO. FDAC2A
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | MW01 | MW02 | MW3 | MW4 | MW5 | RINSE | MW6 | MW7 | MW8 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12301 | 12317 | 12305 | 12306 | 12304 | 12302 | 12301 | 12304 | 12303 |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 8 J (J) | 20000 U | 20000 U | 10 U |
| Bis(2-Chloroethyl)ether | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Chlorophenol | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzyl Alcohol | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 20000 U | 900000 U | 10 U | 10 U | 74 | 10 U | 20000 U | 20000 U | 10 U |
| 2-Methylphenol | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-Chloroisopropyl)ether | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Methylphenol | 10 | 20000 U | 900000 U | 10 U | 10 U | 72 | 10 U | 20000 U | 20000 U | 10 U |
| N-Nitroso-di-n-dipropylamine | 10 | 20000 U | 900000 U | 10 U | 10 U | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| Hexachloroethane | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| Nitrobenzene | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| Isophorone | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| 2-Nitrophenol | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dimethylphenol | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-Chloroethoxy)methane | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dichlorophenol | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| Naphthalene | 10 | 20000 U | 900000 U | 10 U | [illegible] | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chloroaniline | 10 | 20000 U | 900000 U | 10 U | 10 U | 70 | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorobutadiene | 10 | 20000 U | 900000 U | 10 U | 10 U | [illegible] | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Methylnaphthalene | 10 | 20000 U | 2000000 | 13 | 5 J (J) | 56 | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| 2-Chloronaphthalene | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Nitroaniline | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Dimethylphthalate | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Acenaphthylene | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 20000 U | 900000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| DILUTION FACTOR | | 10 | 50 | 10 | 10 | 50 | 10 | 10 | 10 | 10 |
| DATE SAMPLED | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/31/91 | 07/31/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/31/91 | 07/31/91 | 07/30/91 |
| DATE ANALYZED: | | 08/01/91 | 08/02/91 | 08/14/91 | 08/14/91 | 08/22/91 | 08/14/91 | 08/01/91 | 08/01/91 | 08/22/91 |

J (J) = Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | Rinsate-3 | FB-1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11828 | 13027 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 9 J(1) | 9 J(1) |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 3 J(1) | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 6 J(1) | 50 U | 5000 U | 50 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 97 | 10 U | 2800 | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 48 | 10 U | 7500 | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 10 U | 10 U | 10 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1000 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | Rinsate-3 | FB-1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11624 | 11626 | 12028 | 12027 | 11627 | 11628 | 13027 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 UJ(1) | 10 UJ(1) | 10 U | 1000 U | 10 UJ(1) | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 U | 20 U | 20 UJ(1) | 2000 UJ(1) | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 2 J(1) | 10 U | 2 J(1) | 380 J(1) | 5 J(1) | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1000 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/29/91 | 07/29/91 | 07/30/91 | 07/30/91 | 07/29/91 | 07/29/91 | 07/29/91 |

J(1) – Value estimated because [illegible]ncentration is < CRQL.
UJ(1) – Nondetect estimated [illegible] calibration %D > 50.

SITE: CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 007RINSATE | MW15 | MW16 | MW17 | MW18 | MW19 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 11556 | 11556 | 11557 | 11558 Rinsate Blank | 11640 | 11641 | 11644 | 11643 | 11642 |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 6 J (1) | 10 U | 10 U | R (1) | 10 U | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 4 J (1) | 10 U | R (1) | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 13 | 13 | 10 U | 10 U | 110 | 10 U | 47 | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 | 11 | 10 U | 2 J (1) | 77 | 10 U | 31 | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 |
| DATE EXTRACTED: | | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |

J (1) - Value is estimated because reported concentration is less than the CRQL.
R (1) - Value is rejected due to surrogate %Rs < 10.

SITE: CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 007RINSATE | MW15 | MW16 | MW17 | MW18 | MW19 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11556 | 11556 | 11557 | 11558 | 11640 | 11641 | 11644 | 11643 | 11642 |
| | | | | | Rinsate Blank | | | | | |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 50 | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 U | 50 U | 50 U | 50 U | 50 UJ (2) |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 U | 50 U | 50 U | 50 U | 50 UJ (2) |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 3 J (1) | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 42 U (1) | 10 U (1) | 10 U (1) | 5 J (1) | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 19 | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 19 J (2) | 10 U | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 72 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 9 J (1) | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 | 10 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U (1) | 10 U (1) | 10 U (1) | 10 U | 10 U (1) | 10 U (1) | 10 U | 10 U (1) | 10 U (1) |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 13 | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 8 J (1) | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 5 J (1) | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 |
| DATE EXTRACTED: | | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |

U (1) - Value is considered a false positive due to blank contamination.
J (1) - Value is estimated because reported concentration is less than the CRQL.
J (2) - Value is estimated due to continuing calibration %D > 25.
UJ (2) - Value is estimated due to continuing calibration %Ds > 60.
R (1) - Value is rejected due to surrogate %Rs < 10.

SITE: CALVERTON
CASE NO. FD402
LABORATORY: NET CAMBRIDGE

Pesticide/PCB aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | FIELD BLANK 1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 0403-11823 | 0403-11822 | 0403-11820 | 0403-11821 | 0440-12029HP | 0440-12030 | 0440-12037 |
| COMPOUND | CRQL | | | | | | | |
| alpha-BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| beta-BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| delta-BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| gamma-BHC(Lindane) | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Aldrin | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor Epoxide | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Endosulfan I | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 7.9 X | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 |
| DATE ANALYZED: | | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Pesticide/PCB Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW3 | MW4 | MW4FP | MW5 | MW5FP | MW6 | RINSATE5 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12259 | 12260 | 12264 | 12261 | 12265 | 12351 | 12262 |
| COMPOUND | CRQL | | | | | | | Rinsate Blank |
| alpha-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| beta-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| delta-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| gamma-BHC (Lindane) | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Heptachlor | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Aldrin | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Heptachlor Epoxide | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Endosulfan I | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 J (2) | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U | 1.0 U | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 | 0.83 J (1) | 0.87 J (1) | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/29/91 | 07/29/91 | 08/03/91 | 07/29/91 | 08/03/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/15/91 | 08/15/91 | 08/30/91 | 08/15/91 | 08/30/91 | 08/16/91 | 08/16/91 |

J (1) – Value is estimated because reported concentration is less than the CRQL.
J (2) – Value is estimated due to quantitation column %D > 15.

CALVERTON
SDG: 2852CW
LABORATORY: NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | FIELD BLANK #1 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 03-11823S | 03-11822S | 03-11820S | 03-11821S | 40-12029S | 40-12030S | | |
| | | | | FIELD DUPLICATE PAIR | | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| ALUMINUM | 20.0 | 69.1 | 83.1 | 65.7 | 51.5 | 6010 | 23300 | 78.4 | 200 |
| ANTIMONY | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| ARSENIC | 3.0 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 4.4 | 8.4 | 3.0 U | 10 |
| BARIUM | 5.0 | 8.4 | 11.2 | 6.9 | 6.1 | 129 | 138 | 5.0 U | 200 |
| BERYLLIUM | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.1 | 2.3 | 1.0 U | 5 |
| CADMIUM | 3.0 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.5 | 5.5 | 3.0 U | 5 |
| CALCIUM | 20.0 | 14600 | 18200 | 11400 | 11500 | 17500 | 24800 | 292 | 5000 |
| CHROMIUM | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 13.5 | 25.5 | 5.0 U | 10 |
| COBALT | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 23.5 | 37.4 | 5.0 U | 50 |
| COPPER | 5.0 | 7.6 | 5.0 U | 5.0 U | 5.0 U | 21.0 | 60.9 | 5.0 U | 25 |
| IRON | 5.0 | 157 | 42.4 | 39.5 | 33.5 | 8220 | 30000 | 35.6 | 100 |
| LEAD | 2.0 | 2.8 | 2.0 U | 2.8 | 2.0 U | 57.8 | 19.0 | 2.0 U | 3 |
| MAGNESIUM | 50.0 | 5560 | 8380 | 4310 | 4310 | 2760 | 4860 | 53.1 | 5000 |
| MANGANESE | 1.0 | 39.0 | 5.2 | 5.3 | 5.7 | 147 | 372 | 1.0 U | 15 |
| MERCURY | 0.20 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 020 |
| NICKEL | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 13.9 | 23.6 | 5.0 U | 40 |
| POTASSIUM | 400 | 2190 | 881 | 424 | 813 | 1960 | 2420 | 400 U | 5000 |
| SELENIUM | 2.0 | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 10.0 J(2) | 2.0 UJ(2) | 5 |
| SILVER | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| SODIUM | 100 | 4870 J(1) | 4720 J(1) | 4970 J(1) | 4920 J(1) | 2900 J(1) | 265 J(1) | 100 U | 5000 |
| THALLIUM | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 |
| VANADIUM | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 23.2 | 62.9 | 5.0 U | 50 |
| ZINC | 5.0 | R(1) | R(1) | R(1) | R(1) | R(1) | R(1) | R(1) | 20 |
| CYANIDE | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 20.0 | 5.6 U | 10 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/18/91 | 07/18/91 | 07/18/91 | |

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to MS %R < 75% yet > 30%.
J(1) - Value is estimated due to ICP serial dilution %D > 10%.
J(2) - Value is estimated due to MS %R < 75% yet > 30%.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Pesticide/PCB Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW3 | MW4 | MW4FP | MW5 | MW5FP | MW6 | RINSATE5 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12259 | 12260 | 12264 | 12261 | 12265 | 12351 | 12262 |
| | | | | | | | | Rinsate Blank |
| COMPOUND | CRQL | | | | | | | |
| alpha-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| beta-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| delta-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| gamma-BHC (Lindane) | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Heptachlor | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Aldrin | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Heptachlor Epoxide | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Endosulfan I | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 J (2) | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U | 1.0 U | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 | 0.83 J (1) | 0.87 J (1) | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/29/91 | 07/29/91 | 08/03/91 | 07/29/91 | 08/03/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/15/91 | 08/15/91 | 08/30/91 | 08/15/91 | 08/30/91 | 08/16/91 | 08/16/91 |

J (1) - Value is estimated because reported concentration is less than the CRQL.
J (2) - Value is estimated due to quantitation column %D > 15.

CALVERTON
SDG: 2926CW
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC AQUEOUS ANALYSES
(UG/L)

| SAMPLE LOCATION: | | MW-6 | MW-3 | MW-4 | |
|---|---|---|---|---|---|
| LABORATORY ID: | | 13-12351S | 82-12259 | 82-12260 | |
| ANALYTE | IDL | | | | CRDL |
| ALUMINUM | 4.0 | 80200 | NR | NR | 200 |
| ANTIMONY | 6.0 | 30.0 UJ(1,2) | NR | NR | 60 |
| ARSENIC | 0.60 | 40.7 J(1) | NR | NR | 10 |
| BARIUM | 1.0 | 215 | NR | NR | 200 |
| BERYLLIUM | 0.20 | 5.4 | NR | NR | 5 |
| CADMIUM | 0.60 | 22.8 | NR | NR | 5 |
| CALCIUM | 4.0 | 10900 | NR | NR | 5000 |
| CHROMIUM | 1.0 | 80.3 | NR | NR | 10 |
| COBALT | 1.0 | 63.0 J(2) | NR | NR | 50 |
| COPPER | 1.0 | 120 | NR | NR | 25 |
| IRON | 1.0 | 125000 | NR | NR | 100 |
| LEAD | 20.0 | 73.8 | NR | NR | 3 |
| MAGNESIUM | 10.0 | 7840 | NR | NR | 5000 |
| MANGANESE | 0.20 | 2680 | NR | NR | 15 |
| MERCURY | 0.10 | R(1) | NR | NR | 0.20 |
| NICKEL | 1.0 | 59.2 | NR | NR | 40 |
| POTASSIUM | 80.0 | 4000 J(2) | NR | NR | 5000 |
| SELENIUM | 0.40 | 2.0 U | NR | NR | 5 |
| SILVER | 1.0 | 5.0 U | NR | NR | 10 |
| SODIUM | 20.0 | 3660 | NR | NR | 5000 |
| THALLIUM | 0.40 | 2.0 U | NR | NR | 10 |
| VANADIUM | 1.0 | 227 | NR | NR | 50 |
| ZINC | 1.0 | 179 J(2) | NR | NR | 20 |
| CYANIDE | 6.0 | 5.0 U | 24.9 | 6.2 | 10 |
| DATE SAMPLED: | | 07/24/91 | 07/23/91 | 07/23/91 | |

U – Value is a nondetect as reported by the laboratory.
R(1) – Reject positive result due to holding time until analysis exceedance.
J(2) – Estimate positive sample results because ICP Serial Dilution Result Relative Percent Difference (RPD) > 10%.
UJ(1) – Estimate nondetect due to Matrix Spike %R <75%.
UJ(2) – Estimate nondetect due to low CRDL Standard %R.
J(1) – Estimate positive sample result due to Matrix Spike %R < 75%.
NR – Analysis result not required.

CALVERTON
SDG 2910CW
LABORATORY NET - CAMBRIDGE

INORGANIC AQUEOUS ANALYSES
ug/L

| SAMPLE LOCATION | | MW03 | MW04 | MW05 | SW01 | SW02 | SW02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | MW03 | MW04 | MW05 | SW01 | SW02 | SW02A | FIELD BLANK #2 | FIELD BLANK #3 | |
| LABORATORY SAMPLE ID | | 0482 - 12259S | 0482 - 12260S | 0482 - 12261S | 0642 - 13899S | 0642 - 12900S | 0642 - 12901S | 0564 - 12596S | 0564 - 12814S | |
| ANALYTE | IDL | | | | | FIELD DUPLICATE PAIR | | FIELD BLANK | FIELD BLANK | CRDL |
| Aluminum | 20.0 | 18800 | 5490 | 36400 | 1350 | 90.3 | 115 | 64.7 | 20.0 U | 200 |
| Antimony | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| Arsenic | 3.0 | 7.5 | 3.0 U | 13.5 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 10 |
| Barium | 5.0 | 103 | 91.9 | 120 | 30.4 | 21.1 | 15.2 | 6.4 | 5.0 U | 200 |
| Beryllium | 1.0 | 3.1 | 1.5 | 2.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5 |
| Cadmium | 3.0 | 8.3 | 3.7 | 15.4 | 3.0 U | 3.0 U | 3.0 U | 3.4 | 3.0 U | 5 |
| Calcium | 20.0 | 6550 | 3050 | 23900 | 29100 | 20900 | 20300 | 12700 | 312 | 5000 |
| Chromium | 5.0 | 31.1 | 5.00 U | 74.1 | 63.3 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 10 |
| Cobalt | 5.0 | 32.7 | 21.9 | 11.5 | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Copper | 5.0 | 61.2 | 34.8 | 337 | 14.9 | 5.0 U | 7.8 | 15.5 | 5.0 U | 25 |
| Iron | 5.0 | 34100 | 1640 | 75100 | 3870 | 436 | 463 | 222 | 33.1 | 100 |
| Lead | 2.0 | 21.9 | R(1) | 36.0 | 8.1 | 4.4 | 4.0 | 2.8 | 10.9 | 3 |
| Magnesium | 50.0 | 1890 | 710 | 5230 | 2010 | 2040 | 1970 | 1970 | 57.8 | 5000 |
| Manganese | 1.0 | 142 J(4) | 97.5 J(4) | 632 J(4) | 257 J(4) | 33 J(4) | 31.6 J(4) | 41.7 J(4) | 1.5 | 15 |
| Mercury | 0.2 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.2 |
| Nickel | 5.0 | 25.0 | 22.0 | 16.2 | 5.0 U | 5.0 U | 8.1 | 5.0 U | 5.0 U | 40 |
| Potassium | 400 | 1340 | 478 | 4850 | 906 | 578 | 522 | 974 | 400 U | 5000 |
| Selenium | 2.0 | 10.0 UJ(2) | 2.0 UJ(2) | 10.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 5 |
| Silver | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| Sodium | 100 | 3430 | 2660 | 3360 | 4590 | 4600 | 4370 | 5850 | 248 | 5000 |
| Thallium | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 |
| Vanadium | 5.0 | 29.5 | 7.8 | 163 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Zinc | 5.0 | R(1) | R(1) | 1290 J(3) | 221 J(3) | 34.1 J(3) | 56.6 J(3) | 47.0 J(3) | 49.0 J(3) | 20 |
| Cyanide | 5.0 | 24.9 J(2,3) | 6.2 UJ(2,3) | 5.0 UJ(2,3) | 83.40 J(2,3) | 5.0 UJ(2,3) | 12.5 J(2,3) | 5.0 UJ(2,3) | 5.0 UJ(2,3) | 10 |
| DATE SAMPLED: | | 07/23/91 | 07/23/91 | 07/23/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/26/91 | 07/30/91 | |

U - Value is a nondetect as reported by the laboratory.
R(1) - Value is considered to be a false positive result because of blank contamination.
UJ(1) - Nondetect is estimated because of low CRDL. Standard analysis %R.
UJ(2) - Nondetect is estimated because of low MS %R.
UJ(3) - Nondetect is estimated because of field duplicate difference in excess of respective CRDL.
J(1) - Value is estimated because of low MSA r.
J(2) - Value is estimated because of low MS %R.
J(3) - Value is estimated because of field duplicate difference in excess of respective CRDL.
J(4) - Value is estimated because of ICP serial dilution %D greater than 10%.

CALVERTON
SDG: 2850CW
LABORATORY: NET- CAMBRIDGE DIVISION

INORGANIC AQUEOUS ANALYSES
UG/L

| SAMPLE LOCATION: | | MW-15 | MW-16 | MW-17 | MW-18 | MW-19 | MW-7 | |
|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 54-11640S | 54-11641S | 54-11644S | 54-11643S | 54-11642S | 03-11825S | |
| ANALYTE | IDL | | | | | | | CRDL |
| LEAD | 20.0 | 682 | 11.8 | 31.0 | 22.2 | 42.0 | 1740 | 3.0 |
| DATE SAMPLED: | | 07/15/91 | 0715//91 | 07/15/91 | 07/15/91 | 07/15/91 | 07/17/91 | |

U - Value is a nondetect as reported by the laboratory.

CALVERTON
SDG: 2850CW
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC AQUEOUS ANALYSES
UG/L

| SAMPLE LOCATION: | | MW-14 | MW-13 | MW-13A | RINSATE #7 | MW-10 | MW-11 | MW-12 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 26-11555S | 26-11556S | 26-11557S | 2611558S | 40-12028S | 40-12027S | 03-11827S | |
| | | | FIELD DUPLICATE PAIR | | RINSATE BLANK | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| LEAD | 20.0 | 23.6 | 19.7 | 20.6 | 2.0 U | 43.4 | 33.5 | 142 | 3.0 |
| DATE SAMPLED: | | 07/15/91 | 07/15/91 | 07/15/91 | 07/15/91 | 07/18/91 | 07/18/91 | 07/17/91 | |

U - Value is a nondetect as reported by the laboratory.

CALVERTON
SDG: 2850CW
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANI AQUEOUS ANALYSES
UG/L

| SAMPLE LOCATION: | | MW-8 | MW-9 | RINSATE #3 | |
|---|---|---|---|---|---|
| LABORATORY ID: | | 03-11824S | 03-11826S | 03-11828S | |
| | | | | RINSATE BLANK | |
| ANALYTE | IDL | | | | CRDL |
| LEAD | 20.0 | 148 | 55.0 | 2.0 U | 3.0 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | |

U - Value is a nondetect as reported by the laboratory.

3019

EPA SAMPLE NO.

MW1DL

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 120290L

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K9922

Level: (low/med) LOW Date Received: 07/19/91

% Moisture: not dec. ____ Date Analyzed: 07/31/91

Column (pack/cap) PACK Dilution Factor: 5.0

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 19.87 | 25 | J |
| 2. | UNKNOWN | 22.70 | 20 | J |
| 3. | UNKNOWN | 25.21 | 140 | J |
| 4. | UNKNOWN | 28.44 | 180 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 302

MW2

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12030

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K9864

Level: (low/med) LOW Date Received: 07/19/91

% Moisture: not dec. ____ Date Analyzed: 07/29/91

Column (pack/cap) PACK Dilution Factor: 1.0

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

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 22.52 | 8.0 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 301-3

MW11

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4028 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12027

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G3151

Level: (low/med) LOW Date Received: 07/19/91

% Moisture: not dec. ____ Date Analyzed: 07/26/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | BENZENE, ETHYLMETHYL ISOMER | 25.37 | 190 | J |
| 2. | C9H12 ISOMER | 25.54 | 130 | J |
| 3. | BENZENE, ETHYLMETHYL ISOMER | 27.04 | 290 | J |
| 4. | BENZENE, METHYL(METHYLETHYL) | 28.02 | 66 | J |
| 5. | BENZENE, ETHYLMETHYL ISOMER | 28.32 | 190 | J |
| 6. 25340174 | BENZENE, DIETHYL- | 28.84 | 110 | J |
| 7. | BENZENE, METHYL(METHYLETHYL) | 28.99 | 100 | J |
| 8. | C10H14 ISOMER | 29.27 | 84 | J |
| 9. | BENZENE, METHYL(METHYLETHYL) | 29.49 | 110 | J |
| 10. | C10H14 ISOMER | 29.64 | 89 | J |
| 11. | UNKNOWN | 29.92 | 200 | J |
| 12. | C10H14 ISOMER | 30.24 | 190 | J |
| 13. | C10H14 ISOMER | 30.42 | 94 | J |
| 14. | UNKNOWN | 30.86 | 100 | J |
| 15. | UNKNOWN ALKANE | 30.97 | 140 | J |
| 16. | UNKNOWN | 31.17 | 66 | J |
| 17. | C10H14 ISOMER | 31.29 | 140 | J |
| 18. | C10H12 ISOMER | 31.44 | 90 | J |
| 19. | C10H12 ISOMER | 31.94 | 120 | J |
| 20. | UNKNOWN ALKANE | 32.22 | 240 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW1

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12029

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2076

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown alkane | 9.50 | 550 | J |
| 2. | Unknown alkane | 9.90 | 490 | J |
| 3. | Unknown alkane | 11.40 | 870 | J |
| 4. | Unknown | 11.90 | 370 | J |
| 5. | Unknown alkane | 12.30 | 310 | J |
| 6. | Unknown alkane | 13.10 | 1600 | J |
| 7. | Unknown alkane | 13.30 | 560 | J |
| 8. | Unknown alkane | 13.90 | 540 | J |
| 9. | Unknown alkane | 14.10 | 400 | J |
| 10. | Unknown alkane | 14.30 | 660 | J |
| 11. | Unknown alkane | 14.90 | 370 | J |
| 12. | Unknown | 15.00 | 260 | J |
| 13. | Unknown | 15.30 | 430 | J |
| 14. | Unknown alkane | 15.60 | 520 | J |
| 15. | Unknown alkane | 15.80 | 730 | J |
| 16. | Unknown alkane | 16.10 | 1400 | J |
| 17. | Unknown | 16.60 | 300 | J |
| 18. | Unknown | 16.80 | 310 | J |
| 19. | Unknown alkane | 16.90 | 830 | J |
| 20. | Unknown alkane | 17.40 | 850 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 402

MW2

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12030

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2077

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.20~~ | ~~32~~ | ~~J~~ |
| 2. | ~~Unknown~~ | ~~7.00~~ | ~~10~~ | ~~J~~ |
| 3. 930687 | ~~2-Cyclohexen-1-one~~ | ~~7.90~~ | ~~10~~ | ~~J~~ |
| 4. 60322 | Hexanioc acid,-6-amino- | 13.90 | 58 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11825

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2062

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/29/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 6

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.20~~ | ~~28~~ | ~~J~~ |
| 2. | Unknown | 6.90 | 10 | J |
| 3. 930687 | ~~2-Cyclohexen-1-one~~ | ~~7.90~~ | ~~10~~ | ~~J~~ |
| 4. | Unknown | 10.80 | 8.0 | J |
| 5. 60322 | Hexanoic acid,-6-amino- | 14.00 | 62 | J |
| 6. | ~~Unknown~~ | ~~17.10~~ | ~~14~~ | ~~J~~ |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

MW8 4006

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11824

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2061

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/29/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.28~~ | ~~32~~ | ~~J~~ |
| 2. | ~~Unknown~~ | ~~7.08~~ | ~~12~~ | ~~J~~ |
| 3. | Unknown | 7.90 | 10 | J |
| 4. | Unknown alkane | 11.40 | 10 | J |
| 5. 60322 | Hexanoic acid,-6-amino- | 13.90 | 60 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11826

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2063

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/29/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 16

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.20~~ | ~~30~~ | ~~J~~ |
| 2. | C9H12 isomer | 8.70 | 130 | J |
| 3. | C9H12 isomer | 8.80 | 66 | J |
| 4. | C9H12 isomer | 9.00 | 60 | J |
| 5. | C9H12 isomer | 9.30 | 220 | J |
| 6. | C9H12 isomer | 9.90 | 160 | J |
| 7. | C10H14 isomer | 11.00 | 30 | J |
| 8. | C10H14 isomer | 11.50 | 20 | J |
| 9. | C10H14 isomer | 11.70 | 22 | J |
| 10. | C10H14 isomer | 11.70 | 30 | J |
| 11. | C10H12 isomer | 12.10 | 24 | J |
| 12. | Unknown | 12.20 | 24 | J |
| 13. | C10H12 isomer | 12.30 | 34 | J |
| 14. | C10H14 isomer | 12.30 | 40 | J |
| 15. | C10H12 isomer | 12.50 | 34 | J |
| 16. 90120 | Naphthalene, 1-methyl- | 14.90 | 44 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10 4016

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12028

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2075

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

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

Number TICs found: 3

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | ~~Unknown~~ | ~~6.20~~ | ~~26~~ | ~~J~~ |
| 2. | Unknown | 7.90 | 8.0 | J |
| 3. 60322 | Hexanoic acid,-6-amino- | 13.80 | 12 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW11

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12027

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2074

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 100

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 8.50 | 20000 | J |
| 2. | Unknown alkane | 10.00 | 48000 | J |
| 3. | Unknown alkane | 10.80 | 30000 | J |
| 4. | C10H14 isomer | 11.10 | 26000 | J |
| 5. | Unknown alkane | 11.80 | 7400 | J |
| 6. | Unknown | 12.00 | 12000 | J |
| 7. | Unknown | 12.10 | 9000 | J |
| 8. | Unknown alkane | 12.40 | 15000 | J |
| 9. | Unknown alkane | 12.50 | 8800 | J |
| 10. | Unknown alkane | 12.70 | 6800 | J |
| 11. | Unknown | 13.10 | 9600 | J |
| 12. | Unknown alkane | 13.40 | 15000 | J |
| 13. | Unknown | 13.60 | 9800 | J |
| 14. | Unknown alkane | 14.00 | 8200 | J |
| 15. | Unknown alkane | 14.30 | 14000 | J |
| 16. | Unknown alkane | 15.00 | 8400 | J |
| 17. | Unknown | 15.10 | 6800 | J |
| 18. | Unknown | 15.40 | 20000 | J |
| 19. | Unknown alkane | 15.80 | 34000 | J |
| 20. | Unknown alkane | 17.00 | 24000 | J |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | TB5 | MW4FP | MW5FP | MW6 | TB6 |
|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12263 | 12264 | 12265 | 12351 | 12352 |
| | | Trip Blank | | | | Trip Blank |
| COMPOUND | CRQL | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 500 UJ (1) | 500 UJ (1) | 10 UJ (2) |
| Bromomethane | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 4000 | 10 U | 10 U |
| Methylene Chloride | 5 | 2 J (1) | 5 U (1) | 250 U | 5 U | 2 J (1) |
| Acetone | 10 | 10 U | 35 U (1) | 500 U (1) | 6 U (1) | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 3 J (1) | 1800 | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 670 | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 8 | 250 U | 1 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 190 J (1) | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 50 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 07/31/91 | 07/31/91 | 08/01/91 | 08/01/91 | 08/01/91 |

U (1) – Value is considered to be a false positive due to blank contamination.
UJ (1) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW16FP | MW11FP | MW3 | MW4 | MW5 | RINSATE5 |
|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12231 | 12232 | 12259 | 12260 | 12261 | 12262 |
| COMPOUND | CRQL | | | | | | Rinsate Blank |
| Chloromethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 UJ (2) | 10 U |
| Bromomethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Vinyl Chloride | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Chloroethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 4500 | 10 U |
| Methylene Chloride | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Acetone | 10 | 5000 UJ (1) | 5000 U | 10 U (1) | 10 U | 1000 U | 45 |
| Carbon Disulfide | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1-Dichloroethene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1-Dichloroethane | 5 | 2500 UJ (1) | 2500 U | 4 J (1) | 8 | 1700 | 5 U |
| 1,2-Dichloroethene (total) | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 790 | 5 U |
| Chloroform | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,2-Dichloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 2-Butanone | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 2500 UJ (1) | 2500 U | 24 | 50 | 130 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Vinyl Acetate | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Bromodichloromethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,2-Dichloropropane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Trichloroethene | 5 | 2500 UJ (1) | 2500 U | 10 | 5 | 500 U | 5 U |
| Dibromochloromethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Benzene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Bromoform | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| 2-Hexanone | 10 | 5000 UJ (1) | 5000 UJ (2) | 10 U | 10 U | 1000 U | 10 U |
| Tetrachloroethene | 5 | 2500 UJ (1) | 2500 U | 1 J (1) | 2 J (1) | 500 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Toluene | 5 | 2500 UJ (1) | 2500 U | 2 J (1) | 5 U | 320 J (1) | 5 U |
| Chlorobenzene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Ethylbenzene | 5 | 2500 UJ (1) | 2500 U | 12 | 5 U | 500 U | 5 U |
| Styrene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Total Xylenes | 5 | 2500 UJ (1) | 2500 U | 86 | 5 U | 300 J (1) | 5 U |
| DILUTION FACTOR: | | 500 | 500 | 1.0 | 1.0 | 100 | 1.0 |
| DATE SAMPLED: | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 08/01/91 | 07/31/91 |

U (1) – Value is considered to be a false positive due to blank contamination.
UJ (1) – Value is estimated due to surrogate %Rs outside QC limits.
UJ (2) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | MW1GFP | MW1IFP | MW3 | MW4 | MW5 | RINSATE5 | MW4rP | MW5rP | MW5 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12231 | 12232 | 12256 | 12260 | 12261 | 12262 Rinsate Blank | 12264 | 12265 | 12267 |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 50 | 100000 U | 5000000 U | 50 UJ (1) | 50 UJ (1) | 250 U | 50 UJ (1) | 100000 U | 100000 U | 50 U |
| Acenaphthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dinitrophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| 4-Nitrophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Dibenzofuran | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Diethylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Fluorene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Nitroaniline | 50 | 100000 U | 5000000 U | 50 UJ (1) | 50 UJ (1) | 250 U | 50 UJ (1) | 100000 U | 100000 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Pentachlorophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Phenanthrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Di-n-butylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Pyrene | 10 | 20000 U (1) | 990000 U | 10 U (1) | 10 U (1) | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Butylbenzylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 40000 UJ (1) | 2000000 UJ (1) | 20 UJ (1) | 20 UJ (1) | 100 U | 20 UJ (1) | 40000 UJ (1) | 40000 UJ (1) | 20 U |
| Benzo(a)anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Chrysene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 20000 U | 990000 U | 10 U (1) | 10 U (1) | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Di-n-octylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(b)fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(k)fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(a)pyrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| DILUTION FACTOR | | 10 | 50 | 10 | 10 | 50 | 10 | 10 | 10 | 10 |
| DATE SAMPLED: | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/31/91 | 07/31/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/31/91 | 07/31/91 | 07/30/91 |
| DATE ANALYZED: | | 08/01/91 | 08/02/91 | 08/14/91 | 08/14/91 | 08/22/91 | 08/14/91 | 08/01/91 | 08/01/91 | 08/22/91 |

U (1) - Value is considered a false positive due to blank contamination
UJ (1) - Value is estimated due to continuing calibration %D > 50

SITE: CALVERTON
CASE NO: FR102A
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | MW01P | MW01P | MW1 | MW4 | MW6 | RINSE | MW02P | MW02P | MW3 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 122J1 | 122J2 | 122J3 | 122J0 | 122J1 | 122J5 | 122J4 | 122J7 | 122J6 |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 3 J (1) | 20000 U | 20000 U | 10 U |
| Bis(2-Chloroethyl)ether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Chlorophenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzyl alcohol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 74 | 10 U | 20000 U | 20000 U | 10 U |
| 2-Methylphenol | 10 | 20000 U | 990000 U | 10 U | [illegible] | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-Chloroisopropyl)ether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Methylphenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 73 | 10 U | 20000 U | 20000 U | 10 U |
| N-Nitroso-di-n-dipropylamine | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Hexachloroethane | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Nitrobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Isophorone | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Nitrophenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dimethylphenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-Chloroethoxy)methane | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dichlorophenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Naphthalene | 10 | 20000 U | 2000000 | 13 | 5 J (1) | 50 | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chloroaniline | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorobutadiene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chloro-3-methylphenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Methylnaphthalene | 10 | 20000 U | 2000000 | 13 | 5 J (1) | 50 | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| 2-Chloronaphthalene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2-Nitroaniline | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Dimethylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Acenaphthylene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| DILUTION FACTOR | | 1.0 | 50 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |
| DATE EXTRACTED | | 07/31/91 | 07/31/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/31/91 | 07/31/91 | 07/30/91 |
| DATE ANALYZED | | 08/01/91 | 08/02/91 | 08/14/91 | 08/14/91 | 08/22/91 | 08/14/91 | 08/01/91 | 08/01/91 | 08/22/91 |

J (1) - Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Pesticide/PCB Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW3 | MW4 | MW4FP | MW5 | MW5FP | MW6 | RINSATE5 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12259 | 12260 | 12264 | 12261 | 12265 | 12351 | 12262 |
| COMPOUND | CRQL | | | | | | | Rinsate Blank |
| alpha-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| beta-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| delta-BHC | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| gamma-BHC (Lindane) | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Heptachlor | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Aldrin | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Heptachlor Epoxide | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Endosulfan I | 0.05 | 0.05 U | 0.05 U | 120 U | 0.05 U | 120 U | 0.05 U | 0.05 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 J (2) | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 240 U | 0.10 U | 240 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U | 0.50 U | 1200 U | 0.50 U | 1200 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U | 1.0 U | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 | 0.83 J (1) | 0.87 J (1) | 2400 U | 1.0 U | 2400 U | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/29/91 | 07/29/91 | 08/03/91 | 07/29/91 | 08/03/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/15/91 | 08/15/91 | 08/30/91 | 08/15/91 | 08/30/91 | 08/16/91 | 08/16/91 |

J (1) - Value is estimated because reported concentration is less than the CRQL.
J (2) - Value is estimated due to quantitation column %D > 15.

CALVERTON NAVAL BASE
SDG: 2907CW
LABORATORY: NET – CAMBRIDGE

INORGANIC AQUEOUS ANALYSES
ug/L

| SAMPLE LOCATION: | | MW04 | MW05 | MW11 | MW16 | |
|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | MW04-FP | MW05-FP | MW11-FP | MW16-FP | |
| LABORATORY SAMPLE ID: | | 0482-12264 | 0482-12265 | 0474-12232 | 0474-12231 | |
| ANALYTE | IDL | | | | | CRDL |
| Aluminum | 20 | 690 J(1,3) | 310 J(3) | | | 200 |
| Antimony | 30 | 30 UJ(2) | 30 UJ(2) | | | 60 |
| Arsenic | 3 | 3 UJ(2) | 3 UJ(2) | | | 10 |
| Barium | 5 | 8.4 J(3) | 7.6 J(3) | | | 200 |
| Beryllium | 1 | 1 UJ(2) | 1 UJ(2) | | | 5 |
| Cadmium | 3 | 3 UJ(2) | 3 UJ(2) | | | 5 |
| Calcium | 20 | 300 J(1,3) | 2500 J(1,3) | | | 5000 |
| Chromium | 5 | 5 UJ(2) | 5 UJ(2) | | | 10 |
| Cobalt | 5 | 11 J(3) | 11 J(3) | | | 50 |
| Copper | 5 | 5 UJ(2) | 11 J(3) | | | 25 |
| Iron | 5 | 640 J(1,3) | 4700 J(1,3) | | | 100 |
| Lead | 2 | 65.5 J(2,3) | 86.5 J(2,3) | 218 J(2,3) | 284 J(2,3) | 3 |
| Magnesium | 50 | 58 J(3) | 320 J(3) | | | 5000 |
| Manganese | 1 | 9.4 J(3) | 55 J(1,3) | | | 15 |
| Mercury | 0.2 | 2 UJ(1,2) | 2 UJ(1,2) | 2 UJ(1,2) | 2 UJ(1,2) | 0.2 |
| Nickel | 5 | 15 J(3) | 14 J(3) | | | 40 |
| Selenium | 2 | R(1) | R(1) | | | 5 |
| Silver | 5 | 5 UJ(2) | 5 UJ(2) | | | 10 |
| Sodium | 100 | 100 UJ(2) | 170 UJ(2) | | | 5000 |
| Thallium | 2 | 2 UJ(2) | 2 UJ(2) | | | 10 |
| Vanadium | 5 | 5 UJ(2) | 5 UJ(2) | | | 50 |
| Zinc | 5 | R(2) | R(2) | | | 20 |
| Cyanide | | | | | | |
| DATE SAMPLED: | | 07/23/91 | 07/23/91 | 07/18/91 | 07/16/91 | |

U – Value is a nondetect as reported by the laboratory.
UJ(1) – Nondetect is biased low because of low MS %R.
UJ(2) – Nondetect is estimated because pH of sample was > 2.
J(1) – Value is estimated because result exceeds ten times IDL.
J(2) – Value is estimated due to laboratory duplicate RPD outside QC limits.
J(3) – Value is estimated because pH of sample was > 2.
R(1) – Nondetect is rejected due to very low LCS %R.

# SEDIMENTS

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Organic Analyses
ug/kg

| SAMPLE LOCATION: | | SED-01 | SED-02 | SOIL-01 | SOIL-01A | SOIL-01B | SOIL-22 | SOIL-22A | SOIL-22B |
|---|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12897 | 12898 | 12659 | 12660 | 12661 | 12668 | 12669 | 12670 |
| COMPOUND | CRQL | | | | | | | | |
| Chloromethane | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Bromomethane | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Vinyl Chloride | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Chloroethane | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Methylene Chloride | 5 | 6 U | 6 U | 13 U(1) | 16 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Acetone | 10 | 43 U(1) | 14 U | 11 U | 21 U(1) | 39 U(1) | 11 UJ | 10 U | 12 U |
| Carbon Disulfide | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1-Dichloroethene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1-Dichloroethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,2-Dichloroethene(total) | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Chloroform | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 16 U |
| 1,2-Dichloroethane | 5 | 2 | 2 | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 2-Butanone | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| 1,1,1-Trichloroethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Carbon Tetrachloride | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Vinyl Acetate | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Bromodichloromethane | 5 | 6 U | 7 U | 11 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,2-Dichloropropane | 5 | 6 U | 7 U | 11 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| cis-1,3-Dichloropropene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Trichloroethene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Dibromochloromethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1,2-Trichloroethane | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Benzene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| trans-1,3-Dichloropropene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Bromoform | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 4-Methyl-2-pentanone | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| 2-Hexanone | 10 | 12 U | 14 U | 11 U | 13 U | 14 UJ | 11 UJ | 10 U | 12 U |
| Tetrachloroethene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| 1,1,2,2-Tetrachloroethane | 5 | R | R | R | R | R | R | 5 U | 6 U |
| Toluene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Chlorobenzene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Ethylbenzene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Styrene | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| Total Xylenes | 5 | 6 U | 7 U | 6 U | 6 U | 7 UJ | 5 UJ | 5 U | 6 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/31/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/09/91 | 08/09/91 | 08/08/91 | 08/08/91 | 08/06/91 | 08/06/91 | 08/09/91 | 08/08/91 |
| PERCENT MOISTURE: | | 17 | 26 | 11 | 23 | 29 | 8 | 4 | 14 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Volatile Soil Analysis
ug/Kg

| SAMPLE LOCATION: | | SED-03 | SED-04 | SED-06 | SOIL-13 | SOIL-13 | SOIL-14 | SOIL-14 | SOIL-16 | SOIL-16 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SED-03 | SED-04 | SED-06 | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-16 | SOIL-16C |
| LABORATORY ID: | | 12800 | 12812 | 12813 | 12806 | 12806 | 12807 | 12808 | 12791 | 12792 |
| | | | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Bromomethane | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Vinyl Chloride | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Chloroethane | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Methylene Chloride | 5 | 6 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Acetone | 10 | 11 U | 11 UJ(2) | 10 U | 10 U(1) | 1000 UJ(1) | 140 U(1) | 1100 U | 11 U | 11 U |
| Carbon Disulfide | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Chloroform | 5 | 5 U(1) | 6 U(1) | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 2-Butanone | 10 | 11 U | 11 U | 10 U | 10 U | R(1) | 54 U | R(1) | 11 U | 11 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 7400 J(1) | 27 U | 560 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Bromodichloromethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| 2-Hexanone | 10 | 11 U | 11 U | 10 U | 10 U | 1000 UJ(1) | 54 U | 1100 U | 11 U | 11 U |
| Tetrachloroethene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 6 U | 5 U | 5 U | 1300 J(1) | 7 J | 560 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 6 U | 5 U | 5 U | 2700 J(1) | 130 | 2000 | 5 U | 5 U |
| Styrene | 5 | 5 U | 6 U | 5 U | 5 U | 520 UJ(1) | 27 U | 560 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 6 U | 5 U | 5 U | 17000 J(1) | 700 | 560 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/13/91 | 08/12/91 | 08/09/91 | 08/13/91 | 08/13/91 | 08/12/91 | 08/08/91 | 08/08/91 | 08/08/91 |
| PERCENT MOISTURE: | | 7 | 13 | 4 | 4 | 4 | 8 | 10 | 7 | 8 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of high surrogate compound recovery.
UJ(2) - Nondetect is estimated because of continuing calibration %D greater than 50.
J - Value is estimated because result is reported at concentration less than CRQL.
J (1) - Value is estimated because of high surrogate compound recovery.
R (1) - Nondetect is rejected because of poor detector response.

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-22B | SOIL-22A | SOIL-22 | SOIL-01B | SOIL-01A | SOIL-01 | SED-02 | SED-01 |
|---|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12670 | 12669 | 12668 | 12661 | 12660 | 12659 | 12898 | 12897 |
| COMPOUND | CRQL | | | | | | | | |
| Phenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| bis(2-Chloroethyl) ether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Chlorophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,3-Dichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,4-Dichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Benzyl Alcohol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,2-Dichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Methylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| bis(2-Chloroisopropyl) ether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 UJ | 400 UJ |
| 4-Methylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| N-Nitroso-di-n-propylamine | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Hexachloroethane | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Nitrobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Isophorone | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Nitrophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dimethylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Benzoic Acid | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 UJ | 1900 UJ |
| bis(2-Chloroethoxy)methane | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dichlorophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 1,2,4-Trichlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Naphthalene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 1700 J | 2100 U | 1900 U | 450 U | 400 U |
| 4-Chloroaniline | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Hexachlorobutadiene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 4-Chloro-3-Methylphenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Methylnaphthalene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 600 J | 2100 U | 1900 U | 450 U | 400 U |
| Hexachlorocyclopentadiene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4,6-Trichlorophenol | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,4,5-Trichlorophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| 2-Chloronaphthalene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2-Nitroaniline | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Dimethylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Acenaphthylene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 2,6-Dinitrotoluene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| DILUTION FACTOR: | | 1.0 | 1.09 | 1.0 | 5.0 | 5.0 | 5.0 | 1.00 | 1.00 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/31/91 | 07/31/91 |
| DATE EXTRACTED: | | 08/06/91 | 08/06/91 | 08/06/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |
| DATE ANALYZED: | | 08/14/91 | 08/14/91 | 08/14/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 14 | 4 | 8 | 29 | 23 | 11 | 26 | 17 |

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Soil Analyses
ug/kg

| SAMPLE LOCATION: | | SOIL-22B | SOIL-22A | SOIL-22 | SOIL-01B | SOIL-01A | SOIL-01 | SEDO2 | SEDO1 |
|---|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12670 | 12669 | 12668 | 12661 | 12660 | 12659 | 12898 | 12897 |
| COMPOUND | CRQL | | | | | | | | |
| 3-Nitroaniline | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Acenaphthene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 3400 J | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dinitrophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 UJ | 1900 UJ |
| 4-Nitrophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Dibenzofuran | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 1600 J | 2100 U | 1900 U | 450 U | 400 U |
| 2,4-Dinitrotoluene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Diethylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 4-Chlorophenyl-Phenylether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Fluorene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 3100 J | 2100 U | 1900 U | 450 U | 400 U |
| 4-Nitroaniline | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000UJ | 9000 UJ | 2200 UJ | 1900 UJ |
| 4,6-Dinitro-2-Methylphenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| N-nitrosodiphenylamine(1) | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| 4-Bromophenyl-Phenylether | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Hexachlorobenzene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Pentachlorophenol | 1650 | 1900 UJ(1) | 1700 UJ(1) | 1700 UJ(1) | 11000 U | 10000 U | 9000 U | 2200 U | 1900 U |
| Phenanthrene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 28000 J | 2100 U | 200J | 450 U | 400 U |
| Anthracene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 7700 J | 2100 U | 1900 U | 450 U | 400 U |
| Di-n-butylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 UJ | 2100 UJ | 1900 UJ | 450 U | 400 U |
| Fluoranthene | 330 | 380 UJ(1) | 340 UJ(1) | 270J | 23000 J | 2100 U | 350J | 450 U | 400 U |
| Pyrene | 330 | 380 UJ(1) | 340 UJ(1) | 310J | 21000 J | 2100 U | 210J | 450 U | 400 U |
| Butylbenzylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 UJ | 2100 U | 1900 U | 450 U | 400 U |
| 3,3'-Dichlorobenzidine | 660 | 760 UJ | 680 UJ | 720 UJ | 46000 UJ | 2100 UJ | 1900 UJ | 900 UJ | 800 UJ |
| Benzo(a)anthracene | 330 | 380 UJ(1) | 340 UJ(1) | 390J | 19000 J | 2100 U | 1900 U | 450 U | 400 U |
| Chrysene | 330 | 380 UJ(1) | 340 UJ(1) | 600J | 17000 J | 2100 U | 1900 U | 450 U | 400 U |
| Bis(2-ethylhexyl)phthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 UJ | 2100 UJ | 1900 UJ | 450 U | 400 U |
| Di-n-octylphthalate | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2300 U | 2100 U | 1900 U | 450 U | 400 U |
| Benzo(b)fluoranthene | 330 | 380 UJ(1) | 340 UJ(1) | 840J | 12000 J | 2100 U | 1900 U | 450 U | 400 U |
| Benzo(k)fluoranthene | 330 | 1900 UJ(1) | 340 UJ(1) | 610J | 11000 J | 2100 U | 9000 U | 450 U | 400 U |
| Benzo(a)pyrene | 330 | 380 UJ(1) | 340 UJ(1) | 680J | 14000 J | 2100 U | 1900 U | 450 U | 400 U |
| Indeno(1,2,3-cd)pyrene | 330 | 380 UJ(1) | 340 UJ(1) | 540J | 8200 J | 2100 U | 1900 U | 450 U | 400 U |
| Dibenz(a,h)anthracene | 330 | 380 UJ(1) | 340 UJ(1) | 360 UJ(1) | 2900 J | 2100 U | 1900 U | 450 U | 400 U |
| Benzo(g,h,i)perylene | 330 | 380 UJ(1) | 340 UJ(1) | 510J | 8300 J | 2100 U | 1900 U | 450 U | 400 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 5.0 | 5.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/29/91 | 07/31/91 | 07/31/91 |
| DATE EXTRACTED: | | 08/06/91 | 08/06/91 | 08/06/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |
| DATE ANALYZED: | | 08/14/91 | 08/14/91 | 08/14/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 14 | 4 | 8 | 29 | 23 | 11 | 26 | 17 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-15 | SOIL-15C |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13 | SOIL-14 | SOIL-14 | SOIL-15 | SOIL-15 |
| SAMPLE NUMBER: | | 12800 | 12812 | 12813 | 12805 | 12806 | 12807 | 12808 | 12791 | 12792 |
| | | | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| bis(2-Chloroethyl) ether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Chlorophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,3-Dichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,4-Dichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Benzyl Alcohol | 330 | 350 U | 380 U | 95 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,2-Dichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Methylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| bis(2-Chloroisopropyl) ether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Methylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| N-Nitroso-di-n-propylamine | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Hexachloroethane | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Nitrobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Isophorone | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Nitrophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4-Dimethylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Benzoic Acid | 1700 | 1700 UJ(1) | 83 J(1) | 1400 J | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| bis(2-Chloroethoxy)methane | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4-Dichlorophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 1,2,4-Trichlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Naphthalene | 330 | 350 U | 380 U | 340 U | 340 U | 3100 | 1400 J | 120 J | 350 U | 360 U |
| 4-Chloroaniline | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Hexachlorobutadiene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Chloro-3-Methylphenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Methylnaphthalene | 330 | 350 U | 380 U | 340 U | 340 U | 3300 U | 4400 | 540 | 350 U | 360 U |
| Hexachlorocyclopentadiene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4,6-Trichlorophenol | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,4,5-Trichlorophenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| 2-Chloronaphthalene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2-Nitroaniline | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| Dimethylphthalate | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Acenaphthylene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 2,6-Dinitrotoluene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 5 | 10 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/07/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/07/91 |
| DATE ANALYZED: | | 08/24/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/22/91 | 08/22/91 | 08/22/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 7 | 13 | 4 | 4 | 4 | 8 | 10 | 7 | 8 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 60.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Soil Analyses
ug/Kg

| SAMPLE NUMBER | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13A | SOIL-14 | SOIL-14A | SOIL-15 | SOIL-15C |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE LOCATION: | | SED-03 | SED-04 | SED-05 | SOIL-13 | SOIL-13 | SOIL-14 | SOIL-14 | SOIL-15 | SOIL-15 |
| SAMPLE NUMBER | | 12800 | 12812 | 12813 | 12805 | 12806 | 12807 | 12808 | 12791 | 12792 |
| | | | | | | | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 1700 | 1700 U | 1800 U | 1700 U | 1700 UJ(1) | 8300 UJ(1) | 17000 UJ(1) | 1800 UJ(1) | 1700 U | 1700 U |
| Acenaphthene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 850 U | 360 U |
| 2,4-Dinitrophenol | 1700 | 1700 UJ(1) | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| 4-Nitrophenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| Dibenzofuran | 330 | 350 U | 380 U | 340 U | 340 U | 380 J | 3600 U | 370 U | 350 U | 360 U |
| 2,4-Dinitrotoluene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Diethylphthalate | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Chlorophenyl-Phenylether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Fluorene | 330 | 350 U | 380 U | 340 U | 340 U | 400 J | 3600 U | 370 U | 350 U | 360 U |
| 4-Nitroaniline | 1700 | 1700 UJ(1) | 1800 U | 1700 U | 1700 U | 8300 UJ(1) | 17000 UJ(1) | 1800 UJ(1) | 1700 U | 1700 U |
| 4,6-Dinitro-2-Methylphenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| N-nitrosodiphenylamine(1) | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| 4-Bromophenyl-Phenylether | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Hexachlorobenzene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Pentachlorophenol | 1700 | 1700 U | 1800 U | 1700 U | 1700 U | 8300 U | 17000 U | 1800 U | 1700 U | 1700 U |
| Phenanthrene | 330 | 350 U | 380 U | 170 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Anthracene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Di-n-butylphthalate | 330 | 350 U(1) | 380 U(1) | 340 U(1) | 340 U(1) | 1700 U(1) | 3600 U | 370 U(1) | 350 U(1) | 360 U(1) |
| Fluoranthene | 330 | 47 J | 380 U | 310 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Pyrene | 330 | 350 U | 380 U | 230 J | 340 U | 1700 U | 3600 U | 370 U | 350 UJ(1) | 360 UJ(1) |
| Butylbenzylphthalate | 330 | 350 U(1) | 380 U(1) | 530 U(1) | 340 U | 1700 U | 3600 U | 370 U | 350 U(1) | 360 U(1) |
| 3,3'-Dichlorobenzidine | 660 | R | 760 UJ(1) | 690 UJ(1) | R | 3400 UJ(1) | 7200 UJ(1) | 730 UJ(1) | 1400 UJ(1) | 720 UJ(1) |
| Benzo(a)anthracene | 330 | 350 U | 380 U | 150 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Chrysene | 330 | 350 U | 380 U | 190 J | 340 U | 1700 U | 3600 U | 370 U | 350 U | 360 U |
| Bis(2-ethylhexyl)phthalate | 330 | 350 U(1) | 380 U(1) | 340 U(1) | 340 U(1) | 1700 U(1) | 3600 U | 370 U(1) | 350 U(1) | 360 U(1) |
| Di-n-octylphthalate | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(b)fluoranthene | 330 | 350 U | 380 U | 280 J | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(k)fluoranthene | 330 | 350 U | 380 U | 140 J | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(a)pyrene | 330 | 350 U | 380 U | 140 J | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Indeno(1,2,3-cd)pyrene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Dibenz(a,h)anthracene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| Benzo(g,h,i)perylene | 330 | 350 U | 380 U | 340 U | 340 U | 1700 U | 3600 UJ(2) | 370 U | 350 U | 360 U |
| DILUTION FACTOR: | | 1 | 1 | 1 | 1 | 5 | 10 | 1 | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 |
| DATE EXTRACTED: | | 08/07/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/08/91 | 08/07/91 |
| DATE ANALYZED: | | 08/24/91 | 08/16/91 | 08/16/91 | 08/16/91 | 08/22/91 | 08/22/91 | 08/22/91 | 08/16/91 | 08/16/91 |
| PERCENT MOISTURE: | | 7 | 13 | 4 | 4 | 4 | 8 | 10 | 7 | 8 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 60.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

CALVERTON
SDG: 2014CS
LABORATORY: NET - CAMBRIDGE

INORGANIC SOIL ANALYSES
mg/Kg

| SAMPLE LOCATION: | | SOIL - 03 | SOIL - 03 | SOIL - 04 | SOIL - 04 | SOIL - 04 | SOIL - 04 | SED - 01 | SED - 02 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | SOIL - 03A | SOIL - 03B | SOIL - 04 | SOIL - 04C | SOIL - 04A | SOIL - 04B | SED - 01 | SED - 02 | |
| LABORATORY SAMPLE ID: | | 0664 - 12586 | 0664 - 12587 | 0664 - 12591 | 0664 - 12592 | 0664 - 12593 | 0664 - 12594 | 0642 - 12897 | 0642 - 12898 | |
| ANALYTE | IDL | FIELD DUPLICATE PAIR | | | | | | | | CRDL |
| Aluminum | 4.0 | 1860 | 238 | 3430 | 2880 | 1380 | 255 | 3520 | 1410 | 40 |
| Antimony | 6.0 | 6.1 UJ(1,2) | 7.3 UJ(1,2) | 6.3 UJ(1,2) | 6.3 UJ(1,2) | 6.3 UJ(1,2) | 7.4 UJ(1,2) | 8.6 UJ(1,2) | 7.3 UJ(1,2) | 12 |
| Arsenic | 0.6 | 0.92 | 0.73 U | 1.5 | 1.9 | 0.65 | 0.74 U | 1.7 | 0.73 U | 2 |
| Barium | 1.0 | 9.10 J(2) | 1.2 U | 18.3 J(2) | 20.0 J(2) | 5.0 J(2) | 1.2 U | 12.1 J(2) | 3.6 J(2) | 40 |
| Beryllium | 0.2 | 0.20 U | 0.24 U | 0.21 U | 0.21 U | 0.21 U | 0.26 U | 0.29 U | 0.24 U | 1 |
| Cadmium | 0.8 | 0.64 | 0.73 U | 1.1 | 0.97 | 0.63 U | 0.74 U | 1.1 | 0.73 U | 1 |
| Calcium | 4.0 | 165 U(1) | 37.2 U(1) | 1090 U(1) | 668 U(1) | 69.9 U(1) | 58.5 U(1) | 423 U(1) | 365 U(1) | 1000 |
| Chromium | 1.0 | 4.2 | 1.9 | 36.0 | 27.7 | 3.1 | 1.2 U | 70.5 | 6.4 | 2 |
| Cobalt | 1.0 | 1.2 | 1.2 U | 1.5 | 1.2 | 1.0 U | 1.2 U | 1.5 | 1.2 U | 10 |
| Copper | 1.0 | 3.3 J(3) | 1.40 J(3) | 11.4 J(3) | 12.4 J(3) | 2.1 J(3) | 1.2 UJ(2) | 15.1 J(3) | 2.0 J(3) | 5 |
| Iron | 1.0 | 2570 | 941 | 3650 | 3300 | 1780 | 431 | 3110 | 1640 | 20 |
| Lead | 0.4 | 5.4 J(3) | 1.2 U(1) | 5.7 J(3) | 5.3 J(3) | 1.8 U(1) | 2.6 U(1) | 14.7 J(3) | 4.0 J(3) | 0.6 |
| Magnesium | 10.0 | 219 | 74.9 | 649 | 373 | 163 | 63.2 | 340 | 160 | 1000 |
| Manganese | 0.2 | 29.4 U(1) | 9.9 U(1) | 60.0 | 36.9 U(1) | 21.1 U(1) | 8.6 U(1) | 14.6 U(1) | 10.9 U(1) | 3 |
| Mercury | 0.04 | 0.10 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U | 0.12 U | 0.12 U | 0.11 U | 0.04 |
| Nickel | 1.0 | 2.1 | 1.9 | 6.0 | 6.5 | 1.4 | 1.2 U | 4.8 | 1.2 U | 8 |
| Potassium | 80.0 | 81.7 U | 96.7 U | 84.3 U | 84.0 U | 83.8 U | 98.4 U | 114 U | 97.6 U | 1000 |
| Selenium | 0.4 | 0.41 UJ(2) | 0.48 UJ(2) | 0.42 UJ(2) | 0.42 UJ(2) | 0.42 UJ(2) | 0.49 UJ(2) | 0.57 UJ(2) | 0.49 UJ(2) | 1 |
| Silver | 1.0 | 1.0 UJ(1) | 1.2 UJ(1) | 1.1 UJ(1) | 1.1 UJ(1) | 1.0 UJ(1) | 1.2 UJ(1) | 1.4 UJ(1) | 1.2 UJ(1) | 2 |
| Sodium | 20.0 | 20.4 U | 24.2 U | 21.1 U | 21.90 U(1) | 20.9 U | 24.6 U | 28.5 U | 24.4 U | 1000 |
| Thallium | 0.4 | 0.41 U | 0.48 U | 0.42 U | 0.42 U | 0.42 U | 0.49 U | 0.67 U | 0.49 U | 2 |
| Vanadium | 1.0 | 4.1 J(4) | 1.9 J(4) | 7.5 J(4) | 6.2 J(4) | 2.6 J(4) | 1.2 UJ(3) | 7.9 J(4) | 3.4 J(4) | 10 |
| Zinc | 1.0 | 10.5 U(1) | 12.2 U(1) | 28.1 U(1) | 23.2 U(1) | 8.6 U(1) | 3.0 U(1) | 68.9 U(1) | 6.5 U(1) | 4 |
| Cyanide | 2.0 | 1.3 U | 1.6 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.8 U | 1.6 U | 2 |
| DATE SAMPLED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/31/91 | 07/31/91 | |
| PERCENT SOLIDS: | | 97.9 | 82.7 | 94.9 | 95.2 | 95.5 | 81.3 | 70.1 | 82.0 | |

U - Value is a nondetect as reported by the laboratory.
R(1) - Value is considered to be a false positive result because of blank contamination.
UJ(1) - Nondetect is estimated because of low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated because of low MS %R.
UJ(3) - Nondetect is estimated because of laboratory duplicate imprecision.
J(1) - Value is estimated because of low CRDL Standard analysis %R.
J(2) - Value is estimated because of high MS %R.
J(3) - Value is estimated because of low MS %R.
J(4) - Value is estimated because of laboratory duplicate imprecision.
J(5) - Value is estimated because ICP serial dilution result %D exceeded 10%.

INORGANIC SOIL ANALYSES (MG/KG)
CALVERTON
SDG 2017CS
LABORATORY NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | SOIL-18A | SOIL-19 | SOIL-19A | SOIL-19B | SED-03 | |
|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 07-12802S | 07-12794S | 07-12795S | 07-12796S | 07-12800S | |
| ANALYTE | IDL | | | | | | CRDL |
| LEAD | 2.0 | R(1,2) | R(1,2) | R(1,2) | R(1,2) | R(2) | 0.6 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | |
| PERCENT SOLIDS: | | 92.9 | 96.6 | 95.2 | 78.7 | 94.9 | |

R(1) Value is rejected due to field blank contamination > CRDL.
R(2) – Value is rejected due to extremely low MS %R (< 10%).

CALVERTON
SDG: 2018CS
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANIC SOIL ANALYSES
MG/KG

| SAMPLE LOCATION: | | SOIL-16A | SOIL-16C | SED04 | SED05 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | 07-12810S | 07-12811S | 07-12812S | 07-12813S | |
| ANALYTE | IDL | | | | | CRDL |
| LEAD | 2.0 | 1.20 J | 5.80 J | 8.30 J | 71.30 J | 3.0 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | |
| PERCENT SOLIDS: | | 89.2 | 94.9 | 84.5 | 94.8 | |

J - Result is qualified because of low MS %R.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
3004
SED01

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample [redacted]12897

Sample wt/vol: 5.0 (g/mL) G Lab File ID: [redacted]6464

Level: [redacted] (low/med) LOW Date Received: 08/01/91

% Moist[redacted]: not dec. 17 Date Analyzed: 08/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.39 | 86 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

30

SED02

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12898

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6465

Level: (low/med) LOW Date Received: 08/01/91

% Moisture: not dec. 26 Date Analyzed: 08/09/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.36 | 63 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SED03

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4030 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12800

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6507

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 7 Date Analyzed: 08/13/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.39 | 38 | J |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 302

SED04

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. FD4030 SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 12812

Sample wt/vol 5.0 (g/mL) G Lab File ID: L4423

Level (low/med) LOW Date Received 07/31/91

% Moisture not dec 10 Date Analyzed 08/13/91

Injection (pack/cap) CAP Dilution Factor 1.0

Number TICs Found 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1 | UNKNOWN | 13.49 | 11 | J |
| 2 | UNKNOWN | 30.14 | 24 | J |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE No.
302

SED05

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 12810

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L6461

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 Date Analyzed: 08/09/91

Column: (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 29.42 | 100 | T |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SED01 40

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12897

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2306

Level: (low/med) LOW Date Received: 08/01/91

% Moisture: not dec. 17 dec. ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 7

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 6800 | J |
| 2. | Unknown aldol | 5.50 | 1300 | J |
| 3. | Unknown phthalate | 22.40 | 240 | J |
| 4. | Unknown | 24.00 | 440 ~~440~~ | J |
| 5. | Unknown | 24.30 | 440 | J |
| 6. | Unknown | 26.21 | 200 | J |
| 7. | Unknown alkane | 30.51 | 640 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SED02

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12898

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2307

Level: (low/med) LOW Date Received: 08/01/91

% Moisture: not dec. 26 dec. ____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/16/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 7

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 16000 | J |
| 2. | Unknown aldol | 5.50 | 2000 | J |
| 3. | Unknown | 18.30 | 180 | J |
| 4. | Unknown | 22.30 | 320 | J |
| 5. | Unknown | 24.10 | 180 | J |
| 6. | Unknown | 24.70 | 270 | J |
| 7. | Unknown | 26.21 | 220 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SED03

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No. FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12800

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7412

Level: (low/med) LOW Date Received: 07/31/91

% Moisture not dec. 7 dec. _____ Date Extracted: 08/07/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/91

GPC Cleanup: (Y/N) N pH: 6.5 Dilution Factor: 1.00

Number TICs found 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---|---|---|---|---|
| 1 | Unknown | 4.30 | 1800 | J |
| 2 | Unknown aldol | 6.70 | 1800 | J |
| 3 | Unknown | 19.50 | 180 | J |
| 4 | Unknown alkane | 30.31 | 180 | J |
| 5 | Unknown alkane | 30.71 | 210 | J |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SED04

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12812

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J2289

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 13 dec. ____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 17

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.40 | 13000 | J |
| 2. | Unknown aldol | 5.60 | 2800 | J |
| 3. | Unknown | 11.60 | 270 | J |
| 4. | Unknown | 13.20 | 190 | J |
| 5. | Unknown | 13.60 | 150 | J |
| 6. | Unknown | 13.70 | 340 | J |
| 7. | Unknown alkane | 13.90 | 150 | J |
| 8. | Unknown | 14.00 | 190 | J |
| 9. | Unknown | 14.20 | 230 | J |
| 10. | Unknown | 15.50 | 150 | J |
| 11. | Unknown | 15.60 | 190 | J |
| 12. | Unknown alkane | 15.80 | 190 | J |
| 13. | Unknown alkane | 16.60 | 340 | J |
| 14. | Unknown | 16.80 | 230 | J |
| 15. | Unknown | 18.40 | 270 | J |
| 16. | Unknown alkane | 19.60 | 150 | J |
| 17. | Unknown alkane | 29.31 | 2400 | J |

40507
~~40513~~
amg

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SED05

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 12813

Sample wt/vol: 30 0 (g/mL) G Lab File ID: J2290

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. 4 dec. _____ Date Extracted: 08/08/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/15/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1 00

Number TICs found: 18

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 3.30 | 2600 | J |
| 2. | Unknown aldol | 5.50 | 2200 | J |
| 3. | Unknown | 10.40 | 170 | J |
| 4. | Unknown | 18.40 | 240 | J |
| 5. | Unknown | 19.20 | 140 | J |
| 6. | Unknown | 19.40 | 730 | J |
| 7 | Unknown | 19 80 | 380 | J |
| 8. | Unknown | 19.90 | 210 | J |
| 9. | Unknown | 20.20 | 140 | J |
| 10. | Unknown | 20.30 | 140 | J |
| 11. | Unknown | 21.00 | 350 | J |
| 12. | Unknown | 21.10 | 170 | J |
| 13. | Unknown | 21.40 | 730 | J |
| 14. | Unknown | 21.80 | 240 | J |
| 15. | Unknown | 22.00 | 170 | J |
| 16. | Unknown | 23.50 | 210 | J |
| 17. | Unknown | 24.10 | 560 | J |
| 18. | Unknown | 24.60 | 3300 | J |

# SURFACE WATER

CALVERTON
SDG: 2910CW
LABORATORY NET - CAMBRIDGE

INORGANIC AQUEOUS ANALYSES
ug/L

| SAMPLE LOCATION: | | MW03 | MW04 | MW05 | SW01 | SW02 | SW02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | MW03 | MW04 | MW05 | SW01 | SW02 | SW02A | FIELD BLANK #2 | FIELD BLANK #3 | |
| LABORATORY SAMPLE ID | | 0482 - 12259S | 0482 - 12260S | 0482 - 12261S | 0642 - 13899S | 0642 - 12900S | 0642 - 12901S | 0564 - 12596S | 0564 - 12814S | |
| ANALYTE | IDL | | | | | FIELD DUPLICATE PAIR | | FIELD BLANK | FIELD BLANK | CRDL |
| Aluminum | 20.0 | 18800 | 5490 | 36400 | 1350 | 90.3 | 115 | 64.7 | 20.0 U | 200 |
| Antimony | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| Arsenic | 3.0 | 7.5 | 3.0 U | 13.5 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 10 |
| Barium | 5.0 | 103 | 91.9 | 120 | 30.4 | 21.1 | 15.2 | 6.4 | 5.0 U | 200 |
| Beryllium | 1.0 | 3.1 | 1.5 | 2.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5 |
| Cadmium | 3.0 | 8.3 | 3.7 | 15.4 | 3.0 U | 3.0 U | 3.0 U | 3.4 | 3.0 U | 5 |
| Calcium | 20.0 | 6550 | 3050 | 23900 | 29100 | 20900 | 20300 | 12700 | 312 | 5000 |
| Chromium | 5.0 | 31.1 | 5.00 U | 74.1 | 63.3 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 10 |
| Cobalt | 5.0 | 32.7 | 21.9 | 11.5 | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Copper | 5.0 | 61.2 | 34.8 | 337 | 14.9 | 5.0 U | 7.8 | 15.5 | 5.0 U | 25 |
| Iron | 5.0 | 34100 | 1640 | 75100 | 3870 | 436 | 463 | 222 | 33.1 | 100 |
| Lead | 2.0 | 21.9 | R(1) | 36.0 | 8.1 | 4.4 | 4.0 | 2.8 | 10.9 | 3 |
| Magnesium | 50.0 | 1890 | 710 | 5230 | 2010 | 2040 | 1970 | 1970 | 57.8 | 5000 |
| Manganese | 1.0 | 142 J(4) | 97.5 J(4) | 632 J(4) | 257 J(4) | 33 J(4) | 31.6 J(4) | 41.7 J(4) | 1.5 | 15 |
| Mercury | 0.2 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.2 |
| Nickel | 5.0 | 25.0 | 22.0 | 16.2 | 5.0 U | 5.0 U | 8.1 | 5.0 U | 5.0 U | 40 |
| Potassium | 400 | 1340 | 478 | 4850 | 906 | 578 | 522 | 974 | 400 U | 5000 |
| Selenium | 2.0 | 10.0 UJ(2) | 2.0 UJ(2) | 10.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 5 |
| Silver | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| Sodium | 100 | 3430 | 2660 | 3360 | 4590 | 4600 | 4370 | 5850 | 248 | 5000 |
| Thallium | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 |
| Vanadium | 5.0 | 29.5 | 7.8 | 163 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Zinc | 5.0 | R(1) | R(1) | 1290 J(3) | 221 J(3) | 34.1 J(3) | 56.6 J(3) | 47.0 J(3) | 49.0 J(3) | 20 |
| Cyanide | 5.0 | 24.9 J(2,3) | 6.2 UJ(2,3) | 5.0 UJ(2,3) | 83.40 J(2,3) | 5.0 UJ(2,3) | 12.6 J(2,3) | 5.0 UJ(2,3) | 5.0 UJ(2,3) | 10 |
| DATE SAMPLED | | 07/23/91 | 07/23/91 | 07/23/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/26/91 | 07/30/91 | |

U - Value is a nondetect as reported by the laboratory.
R(1) - Value is considered to be a false positive result because of blank contamination.
UJ(1) - Nondetect is estimated because of low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated because of low MS %R.
UJ(3) - Nondetect is estimated because of field duplicate difference in excess of respective CRDL.
J(1) - Value is estimated because of low MSA r.
J(2) - Value is estimated because of low MS %R.
J(3) - Value is estimated because of field duplicate difference in excess of respective CRDL.
J(4) - Value is estimated because of ICP serial dilution %D greater than 10%.

SITE: CALVERTON
CASE NO. FD413A
LABORATORY: NET-CAMBRIDGE

Volatile Water Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE #9 | SW-01 | SW-02 | SW-02A | TRIP BLANK-11 | TRIP BLANK#9 |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12672 | 12899 | 12900 | 12901 | 12902 | 12673 |
| | | RINSATE BLANK | | FIELD DUPLICATE PAIR | | TRIP BLANK | TRIP BLANK |
| COMPOUND | CRQL | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 10 | 39 U(1) | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 5 U | 5 U | 5 UJ(1) | 5 UJ(1) | 5 UJ(1) | 5 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/29/91 |
| DATE ANALYZED: | | 08/07/91 | 08/09/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |

Semivolatile Water Analyses
ug/l

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

| SAMPLE LOCATION: | | SW-02A | SW-02 | SW-01 | RINSATE 9 ✓ |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12901 | 12900 | 12899 | 12672 |
| | | FIELD DUPLICATE PAIR | | | RINSATE BLANK |
| COMPOUND | CRQL | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 10 UJ |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 50 U | 50 U | 50 UJ |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/31/91 | 07/31/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 |
| DATE ANALYZED: | | 08/23/91 | 08/23/91 | 08/23/91 | 08/23/91 |

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Water Analyses
ug/l

| SAMPLE LOCATION: | | SW-02A | SW-02 | SW-01 | RINSATE 9 |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12901 | 12900 | 12899 | 12672 |
| | | FIELD DUPLICATE PAIR | | | |
| COMPOUND | CRQL | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 50 UJ |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 50 UJ |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 UJ |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 50 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ | 20 UJ | 20 UJ | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 20 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/[illegible]1 | 07/31/91 | 07/29/91 |
| D[illegible] XTF [illegible]D: | | 08/[illegible]1 | 08/[illegible] | 08/[illegible] | 08/[illegible]/91 |

SITE: CALVERTON
CASE NO. FD413A
LABORATORY: NET-CAMBRIDGE

Pesticide/PCB Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | SW01 | SW02 | SW02A |
|---|---|---|---|---|
| SAMPLE NUMBER: | | 0642-12899 | 0642-12900 | 0642-12901 |
| | | | FIELD DUPLICATE PAIR | |
| COMPOUND | CRQL | | | |
| alpha-BHC | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| beta-BHC | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| delta-BHC | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| gamma-BHC(Lindane) | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| Aldrin | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor Epoxide | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan I | 0.05 | 0.05 U | 0.05 U | 0.05 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 | 1.0 U | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/31/91 | 07/31/91 |
| DATE EXTRACTED: | | 08/06/91 | 08/06/91 | 08/06/91 |
| DATE ANALYZED: | | 08/23/91 | 08/23/91 | 08/23/91 |

U – Value is a nondetect as reported by the laboratory.

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW02A

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD413A SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12901

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K0055

Level: (low/med) LOW Date Received: 08/01/91

% Moisture: not dec. _____ Date Analyzed: 08/07/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 22.99 | 4.0 | J |

# FIELD BLANKS

CALVERTON
SDG 2910CW
LABORATORY NET - CAMBRIDGE

INORGANIC AQUEOUS ANALYSES
ug/L

| SAMPLE LOCATION | | MW03 | MW04 | MW05 | SW01 | SW02 | SW02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | MW03 | MW04 | MW05 | SW01 | SW02 | SW02A | FIELD BLANK #2 | FIELD BLANK #3 | |
| LABORATORY SAMPLE ID | | 0482 - 12259S | 0482 - 12260S | 0482 - 12261S | 0642 - 12899S | 0642 - 12900S | 0642 - 12901S | 0964 - 12596S | 0964 - 12814S | |
| ANALYTE | IDL | | | | | FIELD DUPLICATE PAIR | | FIELD BLANK | FIELD BLANK | CRDL |
| Aluminum | 20.0 | 18800 | 5490 | 36400 | 1350 | 90.3 | 115 | 64.7 | 20.0 U | 200 |
| Antimony | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| Arsenic | 3.0 | 7.5 | 3.0 U | 13.5 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 10 |
| Barium | 5.0 | 103 | 91.9 | 120 | 30.4 | 21.1 | 15.2 | 6.4 | 5.0 U | 200 |
| Beryllium | 1.0 | 3.1 | 1.5 | 2.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5 |
| Cadmium | 3.0 | 8.3 | 3.7 | 15.4 | 3.0 U | 3.0 U | 3.0 U | 3.4 | 3.0 U | 5 |
| Calcium | 20.0 | 6550 | 3050 | 23900 | 29100 | 20900 | 20300 | 12700 | 312 | 5000 |
| Chromium | 5.0 | 31.1 | 5.00 U | 74.1 | 63.3 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 10 |
| Cobalt | 5.0 | 32.7 | 21.9 | 11.5 | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Copper | 5.0 | 61.2 | 34.8 | 337 | 14.9 | 5.0 U | 7.8 | 15.5 | 5.0 U | 25 |
| Iron | 5.0 | 34100 | 1640 | 75100 | 3870 | 436 | 463 | 222 | 33.1 | 100 |
| Lead | 2.0 | 21.9 | R(1) | 36.0 | 8.1 | 4.4 | 4.0 | 2.8 | 10.9 | 3 |
| Magnesium | 50.0 | 1890 | 710 | 5230 | 2010 | 2040 | 1970 | 1970 | 57.8 | 5000 |
| Manganese | 1.0 | 142 J(4) | 97.5 J(4) | 632 J(4) | 257 J(4) | 33 J(4) | 31.6 J(4) | 41.7 J(4) | 1.5 | 15 |
| Mercury | 0.2 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.2 |
| Nickel | 5.0 | 25.0 | 22.0 | 16.2 | 5.0 U | 5.0 U | 8.1 | 5.0 U | 5.0 U | 40 |
| Potassium | 400 | 1340 | 478 | 4850 | 906 | 578 | 522 | 974 | 400 U | 5000 |
| Selenium | 2.0 | 10.0 UJ(2) | 2.0 UJ(2) | 10.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 5 |
| Silver | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| Sodium | 100 | 3430 | 2660 | 3360 | 4590 | 4600 | 4370 | 5850 | 248 | 5000 |
| Thallium | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 |
| Vanadium | 5.0 | 29.5 | 7.8 | 163 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Zinc | 5.0 | R(1) | R(1) | 1290 J(3) | 221 J(3) | 34.1 J(3) | 56.6 J(3) | 47.0 J(3) | 49.0 J(3) | 20 |
| Cyanide | 5.0 | 24.9 J(2,3) | 6.2 UJ(2,3) | 5.0 UJ(2,3) | 83.40 J(2,3) | 5.0 UJ(2,3) | 12.5 J(2,3) | 5.0 UJ(2,3) | 5.0 UJ(2,3) | 10 |
| DATE SAMPLED: | | 07/23/91 | 07/23/91 | 07/23/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/26/91 | 07/30/91 | |

U - Value is a nondetect as reported by the laboratory.
R(1) - Value is considered to be a false positive result because of blank contamination.
UJ(1) - Nondetect is estimated because of low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated because of low MS %R.
UJ(3) - Nondetect is estimated because of field duplicate difference in excess of respective CRDL.
J(1) - Value is estimated because of low MSA r.
J(2) - Value is estimated because of low MS %R.
J(3) - Value is estimated because of field duplicate difference in excess of respective CRDL.
J(4) - Value is estimated because of ICP serial dilution %D greater than 10%.

CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | TB-3 | TB-4 | FB-1 | RINSATE-3 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11829 | 12031 | 12037 | 11828 |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 2600 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J(1) | 2 J(1) | 5 U | 5 U |
| Acetone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 26 J(4) |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 27 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 300 | 6 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 23 | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 3 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ(1) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 140 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 68 | 5 U | 32 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 450 | 5 U | 290 J(3) | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/18/91 | 07/16/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/28/91 | 07/28/91 | 07/29/91 | 07/26/91 | 07/29/91 | 07/28/91 | 07/26/91 |

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | Rinsate-3 | FB-1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11828 | 13027 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 9 J(1) | 9 J(1) |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 3 J(1) | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 6 J(1) | 50 U | 5000 U | 50 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 97 | 10 U | 2800 | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 48 | 10 U | 7500 | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 10 U | 10 U | 10 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1000 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | Rinsate-3 | FB-1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11828 | 13027 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 UJ(1) | 10 UJ(1) | 10 U | 1000 U | 10 UJ(1) | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 U | 20 U | 20 UJ(1) | 2000 UJ(1) | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 2 J(1) | 10 U | 2 J(1) | 380 J(1) | 5 J(1) | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1000 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/29/91 | 07/29/91 | 07/30/91 | 07/30/91 | 07/29/91 | 07/29/91 | 07/29/91 |

J(1) – Value estimated because concentration is < CRQL.
UJ(1) – Nondetect estimated due to calibration %D > 50.

SITE: CALVERTON
CASE NO. FD402
LABORATORY: NET CAMBRIDGE

Pesticide/PCB aqueous Analyses
ug/L

| SAMPLE LOCATION: | | PW - 1 | PW - 2 | PW - 3 | PW - 3A | MW - 1 | MW - 2 | FIELD BLANK 1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 0403 - 11823 | 0403 - 11822 | 0403 - 11820 | 0403 - 11821 | 0440 - 12029HP | 0440 - 12030 | 0440 - 12037 |
| COMPOUND | CRQL | | | | | | | |
| alpha - BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| beta - BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| delta - BHC | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| gamma - BHC(Lindane) | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Aldrin | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor Epoxide | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Endosulfan I | 0.05 | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Dieldrin | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4' - DDE | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endrin | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4' - DDD | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4' - DDT | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| alpha - Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| gamma - Chlordane | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor - 1016 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor - 1221 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor - 1232 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor - 1242 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor - 1248 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor - 1254 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor - 1260 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 7.9 X | 1.0 U | 1.0 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 | 07/23/91 |
| DATE ANALYZED: | | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 | 07/27/91 |

CALVERTON
SDG: 2852CW
LABORATORY: NET-CAMBRIDGE DIVISION

| SAMPLE LOCATION: | | PW-1 | PW-2 | PW-3 | PW-3A | MW-1 | MW-2 | FIELD BLANK #1 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 03-11823S | 03-11822S | 03-11820S | 03-11821S | 40-12029S | 40-12030S | | |
| | | | | FIELD DUPLICATE PAIR | | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| ALUMINUM | 20.0 | 69.1 | 83.1 | 65.7 | 51.5 | 6010 | 23300 | 78.4 | 200 |
| ANTIMONY | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| ARSENIC | 3.0 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 4.4 | 8.4 | 3.0 U | 10 |
| BARIUM | 5.0 | 8.4 | 11.2 | 6.9 | 6.1 | 129 | 138 | 5.0 U | 200 |
| BERYLLIUM | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.1 | 2.3 | 1.0 U | 5 |
| CADMIUM | 3.0 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.5 | 5.5 | 3.0 U | 5 |
| CALCIUM | 20.0 | 14600 | 18200 | 11400 | 11500 | 17500 | 24800 | 292 | 5000 |
| CHROMIUM | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 13.5 | 25.5 | 5.0 U | 10 |
| COBALT | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 23.5 | 37.4 | 5.0 U | 50 |
| COPPER | 5.0 | 7.6 | 5.0 U | 5.0 U | 5.0 U | 21.0 | 60.9 | 5.0 U | 25 |
| IRON | 5.0 | 157 | 42.4 | 39.5 | 33.5 | 8220 | 30000 | 35.6 | 100 |
| LEAD | 2.0 | 2.8 | 2.0 U | 2.8 | 2.0 U | 57.8 | 19.0 | 2.0 U | 3 |
| MAGNESIUM | 50.0 | 5560 | 8380 | 4310 | 4310 | 2760 | 4860 | 53.1 | 5000 |
| MANGANESE | 1.0 | 39.0 | 5.2 | 5.3 | 5.7 | 147 | 372 | 1.0 U | 15 |
| MERCURY | 0.20 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 020 |
| NICKEL | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 13.9 | 23.6 | 5.0 U | 40 |
| POTASSIUM | 400 | 2190 | 881 | 424 | 813 | 1960 | 2420 | 400 U | 5000 |
| SELENIUM | 2.0 | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 10.0 J(2) | 2.0 UJ(2) | 5 |
| SILVER | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| SODIUM | 100 | 4870 J(1) | 4720 J(1) | 4970 J(1) | 4920 J(1) | 2900 J(1) | 265 J(1) | 100 U | 5000 |
| THALLIUM | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 |
| VANADIUM | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 23.2 | 62.9 | 5.0 U | 50 |
| ZINC | 5.0 | R(1) | R(1) | R(1) | R(1) | R(1) | R(1) | R(1) | 20 |
| CYANIDE | 5.0 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 20.0 | 5.6 U | 10 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/18/91 | 07/18/91 | 07/18/91 | |

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to MS %R < 75% yet > 30%.
J(1) - Value is estimated due to ICP serial dilution %D > 10%.
J(2) - Value is estimated due to MS %R < 75% yet > 30%.

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
402
FB1

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4028 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12037

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2070

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/29/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 5.60 | 8.0 | J |
| 2. | Unknown | 6.20 | 38 | J |
| 3. | Unknown | 7.00 | 12 | J |
| 4. 111762 | Ethanol,2-butoxy | 7.40 | 24 | J |
| 5. 930687 | 2-Cyclohexen-1-one | 8.00 | 20 | J |
| 6. | Unknown | 11.20 | 50 | J |
| 7. | C8H8O3 isomer | 16.10 | 28 | J |
| 8. | Unknown | 17.10 | 10 | J |
| 9. | Unknown | 19.60 | 20 | J |
| 10. | Unknown | 26.51 | 10 | J |
| 11. | Unknown | 30.01 | 120 | J |

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 | TB8 |
|---|---|---|---|---|
| SAMPLE NUMBER: | | 12595 | 12596 | 12597 |
| | | Rinsate Blank | Field Blank | Trip Blank |
| COMPOUND | CRQL | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U |
| Acetone | 10 | 48 | 20 | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 1 J (2) | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 UJ (2) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/07/91 | 08/02/91 | 08/02/91 |
| PERCENT SOLIDS: | | | | |

UJ (2) - Value is estimated due to continuing calibration %D > 50.
J (2) - Value is estimated b[illegible]ise reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 |
|---|---|---|---|
| SAMPLE NUMBER: | | 12595 | 12596 |
| | | Rinsate Blank | Field Blank |
| COMPOUND | CRQL | | |
| Phenol | 10 | 14 | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U |
| Benzoic Acid | 50 | 10 J (1) | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/22/91 | 08/14/91 |

J (1) - Value is estimated because reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 |
|---|---|---|---|
| SAMPLE NUMBER: | | 12596 | 12596 |
| | | Rinsate Blank | Field Blank |
| COMPOUND | CRQL | | |
| 3-Nitroaniline | 50 | 50 U | 50 UJ (2) |
| Acenaphthene | 10 | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 UJ (2) |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 U | 20 UJ (2) |
| Benzo(a)anthracene | 10 | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/22/91 | 08/14/91 |

UJ (2) - Value is estimated because continuing calibration %D > 50.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Pesticide/PCB Aqueous Analyses
ug/l

| | | |
|---|---|---|
| SAMPLE LOCATION: | | FB2 |
| SAMPLE NUMBER: | | 12596 |
| | | Field Blank |
| COMPOUND | CRQL | |
| alpha-BHC | 0.05 | 0.05 U |
| beta-BHC | 0.05 | 0.05 U |
| delta-BHC | 0.05 | 0.05 U |
| gamma-BHC(Lindane) | 0.05 | 0.05 U |
| Heptachlor | 0.05 | 0.05 U |
| Aldrin | 0.05 | 0.05 U |
| Heptachlor Epoxide | 0.05 | 0.05 U |
| Endosulfan I | 0.05 | 0.05 U |
| Dieldrin | 0.10 | 0.10 U |
| 4,4'-DDE | 0.10 | 0.10 U |
| Endrin | 0.10 | 0.10 U |
| Endosulfan II | 0.10 | 0.10 U |
| 4,4'-DDD | 0.10 | 0.10 U |
| Endosulfan Sulfate | 0.10 | 0.10 U |
| 4,4'-DDT | 0.10 | 0.10 U |
| Methoxychlor | 0.50 | 0.50 U |
| Endrin Ketone | 0.10 | 0.10 U |
| alpha-Chlordane | 0.50 | 0.50 U |
| gamma-Chlordane | 0.50 | 0.50 U |
| Toxaphene | 1.0 | 1.0 U |
| Aroclor-1016 | 0.50 | 0.50 U |
| Aroclor-1221 | 0.50 | 0.50 U |
| Aroclor-1232 | 0.50 | 0.50 U |
| Aroclor-1242 | 0.50 | 0.50 U |
| Aroclor-1248 | 0.50 | 0.50 U |
| Aroclor-1254 | 1.0 | 1.0 U |
| Aroclor-1260 | 1.0 | 1.0 U |

| | |
|---|---|
| DILUTION FACTOR: | 1.0 |
| DATE SAMPLED: | 07/29/91 |
| DATE EXTRACTED: | 07/30/91 |
| DATE ANALYZED: | 08/23/91 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET – CAMBRIDGE

Volatile Aqueous Analysis
ug/L

| SAMPLE LOCATION: | | | |
|---|---|---|---|
| SAMPLE NUMBER: | | FIELD BLANK #3 | TRIP BLANK #10 |
| LABORATORY ID: | | 12814 | 12815 |
| COMPOUND | CRQL | | |
| Chloromethane | 10 | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U |
| Acetone | 10 | 31 | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U |
| 1,2-Dichloroethene (total) | 5 | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U |
| DILUTION FACTOR: | | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/05/91 | 08/05/91 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/L

| | |
|---|---|
| SAMPLE NUMBER: | FIELD BLANK#3 |
| SAMPLE LOCATION: | |
| SAMPLE NUMBER: | 12814 |
| | FIELD BLANK |

| COMPOUND | CRQL | |
|---|---|---|
| Phenol | 10 | 8 J |
| bis(2-Chloroethyl) ether | 10 | 10 U |
| 2-Chlorophenol | 10 | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U |
| Benzyl Alcohol | 10 | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U |
| 2-Methylphenol | 10 | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U |
| 4-Methylphenol | 10 | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U |
| Hexachloroethane | 10 | 10 U |
| Nitrobenzene | 10 | 10 U |
| Isophorone | 10 | 10 U |
| 2-Nitrophenol | 10 | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U |
| Benzoic Acid | 50 | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U |
| Naphthalene | 10 | 10 U |
| 4-Chloroaniline | 10 | 10 U |
| Hexachlorobutadiene | 10 | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U |
| 2-Methylnaphthalene | 10 | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U |
| 2-Chloronaphthalene | 10 | 10 U |
| 2-Nitroaniline | 50 | 50 U |
| Dimethylphthalate | 10 | 10 U |
| Acenaphthylene | 10 | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U |

| | |
|---|---|
| DILUTION FACTOR: | 1 |
| DATE SAMPLED: | 07/30/91 |
| DATE EXTRACTED: | 08/05/91 |
| DATE ANALYZED: | 08/23/91 |

U(1) - Value is considered to be a false positive due to blank contamination.
UJ(1) - Nondetect is estimated because of continuing calibration %D > 50.
UJ(2) - Nondetect is estimated because of internal standard area above QC limits.
J - Value is estimated because of detection at concentration less than the CRQL.
J(1) - Value is estimated because of continuing calibration %D > 25.
R(1) - Nondetect is rejected because of poor detector response.

CALVERTON
CASE NO. FD403C
LABORATORY: NET – CAMBRIDGE

Semivolatile Aqueous Analyses
ug/L

| | | |
|---|---|---|
| SAMPLE NUMBER: | | FIELD BLANK#3 |
| SAMPLE LOCATION: | | |
| SAMPLE NUMBER: | | 12814 |
| | | FIELD BLANK |
| COMPOUND | CRQL | |
| 3-Nitroaniline | 50 | 50 U |
| Acenaphthene | 10 | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U |
| 4-Nitrophenol | 50 | 50 U |
| Dibenzofuran | 10 | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U |
| Diethylphthalate | 10 | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U |
| Fluorene | 10 | 10 U |
| 4-Nitroaniline | 50 | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U |
| Hexachlorobenzene | 10 | 10 U |
| Pentachlorophenol | 50 | 50 U |
| Phenanthrene | 10 | 10 U |
| Anthracene | 10 | 10 U |
| Di-n-butylphthalate | 10 | 10 U |
| Fluoranthene | 10 | 10 U |
| Pyrene | 10 | 10 U |
| Butylbenzylphthalate | 10 | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ(1) |
| Benzo(a)anthracene | 10 | 10 U |
| Chrysene | 10 | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U |
| Di-n-octylphthalate | 10 | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U |
| Benzo(a)pyrene | 10 | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U |

| | |
|---|---|
| DILUTION FACTOR: | 1 |
| DATE SAMPLED: | 07/30/91 |
| DATE EXTRACTED: | 08/05/91 |
| DATE ANALYZED: | 08/23/91 |

U(1) – Value is considered to be a false positive due to blank contamination.
UJ(1) – Nondetect is estimated because of continuing calibration %D > 50
UJ(2) – Nondetect is estimated because of internal standard area above QC limits.
J – Value is estimated because of detection at concentration less than the CRQL.
J(1) – Value is estimated because of continuing calibration %D > 25.
R(1) – Nondetect [illegible] lected because of poor detector response

CALKVERTON
CASE NO. FD403C
LABORATORY: NET - CAMBRIDGE

Pesticide/PCB Aqueous Analyses
ug/L

| | |
|---|---|
| SAMPLE LOCATION: | |
| SAMPLE NUMBER: | FIELD BLANK#3 |
| LABORATORY ID: | 0607-12814 |

| COMPOUND | CRQL | | |
|---|---|---|---|
| alpha-BHC | 0.05 | 0.05 | U |
| beta-BHC | 0.05 | 0.05 | U |
| delta-BHC | 0.05 | 0.05 | U |
| gamma-BHC(Lindane) | 0.05 | 0.05 | U |
| Heptachlor | 0.05 | 0.05 | U |
| Aldrin | 0.05 | 0.05 | U |
| Heptachlor Epoxide | 0.05 | 0.05 | U |
| Endosulfan I | 0.05 | 0.05 | U |
| Dieldrin | 0.10 | 0.10 | U |
| 4,4'-DDE | 0.10 | 0.10 | U |
| Endrin | 0.10 | 0.10 | U |
| Endosulfan II | 0.10 | 0.10 | U |
| 4,4'-DDD | 0.10 | 0.10 | U |
| Endosulfan Sulfate | 0.10 | 0.10 | U |
| 4,4'-DDT | 0.10 | 0.10 | U |
| Methoxychlor | 0.50 | 0.50 | U |
| Endrin Ketone | 0.10 | 0.10 | U |
| alpha-Chlordane | 0.50 | 0.50 | U |
| gamma-Chlordane | 0.50 | 0.50 | U |
| Toxaphene | 1.0 | 1.0 | U |
| Aroclor-1016 | 0.50 | 0.50 | U |
| Aroclor-1221 | 0.50 | 0.50 | U |
| Aroclor-1232 | 0.50 | 0.50 | U |
| Aroclor-1242 | 0.50 | 0.50 | U |
| Aroclor-1248 | 0.50 | 0.50 | U |
| Aroclor-1254 | 1.0 | 1.0 | U |
| Aroclor-1260 | 1.0 | 1.0 | U |

| | |
|---|---|
| DILUTION FACTOR: | 1 |
| DATE SAMPLED: | 07/30/91 |
| DATE EXTRACTED: | 08/06/91 |
| DATE ANALYZED: | 08/23/91 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
FB3

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD4030 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 12814

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K0001

Level: (low/med) LOW Date Received: 07/31/91

% Moisture: not dec. Date Analyzed: 08/05/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 75694 | TRICHLOROFLUOROMETHANE | 4.52 | 7.0 | J |
| 2. | PROPANOL | 8.20 | 10 | J |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
FB3

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD403C SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 12814

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2405

Level: (low/med) LOW Date Received: 07/31/91

% Moisture not dec. _____ dec. _____ Date Extracted: 08/05/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/23/91

GPC Cleanup: (Y/N) N pH 7.0 Dilution Factor: 1.0

Number TICs found 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 6.90 | 18 | J |
| 2. | Unknown | 9.30 | 10 | J |
| 3. | Unknown | 10.70 | 42 | J |
| 4. | C8H8O3 isomer | 15.50 | 22 | J |
| 5. | Unknown | 29.31 | 20 | J |

# TRIP BLANKS

CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 006TB 01 | 007RINSATE | MW15 | MW16 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11555 | 11556 | 11557 | 11559 | 11558 | 11640 | 11641 |
| | | | | | Trip Blank | Rinsate Blank | | |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Bromomethane | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Vinyl Chloride | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Methylene Chloride | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Acetone | 10 | 17 U (1) | 150 U (1) | 50 U | 10 U | 38 | 10 U | 50 UJ (2) |
| Carbon Disulfide | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1-Dichloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1-Dichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Chloroform | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 2-Butanone | 10 | 10 U | R (1) | 50 U | R (1) | R (1) | 10 U | R (1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Carbon Tetrachloride | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Vinyl Acetate | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Bromodichloromethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloropropane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Trichloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Dibromochloromethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Benzene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 14 J (1) |
| trans-1,3-Dichloropropene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Bromoform | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| 2-Hexanone | 10 | 10 U | 50 U | 50 U | 10 U | 10 UJ (2) | 10 U | 50 U |
| Tetrachloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Toluene | 5 | 5 U | 25 U | 33 | 5 U | 5 U | 2 J (1) | 130 |
| Chlorobenzene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Ethylbenzene | 5 | 5 U | 25 U | 120 | 5 U | 5 U | 5 U | 84 |
| Styrene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Total Xylenes | 5 | 5 U | 720 | 960 | 5 U | 5 U | 27 | 450 |
| DILUTION FACTOR: | | 1.0 | 5.0 | 5.0 | 1.0 | 1.0 | 1.0 | 5.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 |
| DATE ANALYZED: | | 07/23/91 | 07/24/91 | 07/19/91 | 07/24/91 | 07/26/91 | 07/19/91 | 07/25/91 |

U (1) – Value is considered a false positive due to blank contamination.
UJ (2) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because it is reported at a concentration less than the CRQL.
R (1) – Value is rejected due to initial calibration RRF < 0.05.

CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW17 | MW18 | MW19 | TB2 |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11644 | 11643 | 11642 | 11645 |
| COMPOUND | CRQL | | | | Trip Blank |
| Chloromethane | 10 | 10 U | 50 U | 10 U | 1 J (1) |
| Bromomethane | 10 | 10 U | 50 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 50 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 25 U | 5 U | 1 J (1) |
| Acetone | 10 | 10 UJ (2) | 50 UJ (2) | 10 UJ (2) | 6 J (1) |
| Carbon Disulfide | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 25 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 2-Butanone | 10 | R (1) | R (1) | R (1) | R (1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 25 U | 1 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 25 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 50 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 25 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 25 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 25 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 390 | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 25 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 25 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 50 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 50 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 25 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 25 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 540 | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 25 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 | 100 | 5 U | 5 U |
| Styrene | 5 | 5 U | 25 U | 5 U | 5 U |
| Total Xylenes | 5 | 10 | 270 | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 5.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |

UJ (2) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because it is reported at a concentration less than the CRQL.
R (1) – Value is rejected due to initial calibration RRF < 0.05.

CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | TB-3 | TB-4 | FB-1 | RINSATE-3 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11829 | 12031 | 12037 | 11828 |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 2600 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J(1) | 2 J(1) | 5 U | 5 U |
| Acetone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 26 J(4) |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 27 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 300 | 6 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 23 | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 3 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ(1) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 140 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 68 | 5 U | 32 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 450 | 5 U | 290 J(3) | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/18/91 | 07/16/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/28/91 | 07/28/91 | 07/29/91 | 07/26/91 | 07/29/91 | 07/28/91 | 07/28/91 |

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | TB5 | MW4FP | MW5FP | MW6 | TB6 |
|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12263 | 12264 | 12265 | 12351 | 12352 |
| | | Trip Blank | | | | Trip Blank |
| COMPOUND | CRQL | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 500 UJ (1) | 500 UJ (1) | 10 UJ (2) |
| Bromomethane | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 4000 | 10 U | 10 U |
| Methylene Chloride | 5 | 2 J (1) | 5 U (1) | 250 U | 5 U | 2 J (1) |
| Acetone | 10 | 10 U | 35 U (1) | 500 U (1) | 6 U (1) | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 3 J (1) | 1800 | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 670 | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 8 | 250 U | 1 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 500 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 190 J (1) | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 250 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 50 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 07/31/91 | 07/31/91 | 08/01/91 | 08/01/91 | 08/01/91 |

U (1) – Value is considered to be a false positive due to blank contamination.
UJ (1) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because reported concentration is less than the CRQL.

CALVERTON
CASE NO FD403B
LABORATORY: NET CAMBRIDGE

Volatile Soil Analyses
mg/Kg

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | SOIL - 10 | SOIL - 10A | SOIL - 10B | SOIL - 10C | SOIL - 11 | SOIL - 11A | SOIL - 11B | SOIL - 12 | SOIL - 12A | SOIL - 12B | RINSATE - 7 | TB - 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12470 | 12478 | 12471 | 12472 | 12473 | 12474 | 12475 | 12479 | 12476 | 12477 | 12480 | 12481 |
| COMPOUND | CRQL | | | | | | | | | | | | |
| Chloromethane | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 UJ(2) | 10 UJ(2) |
| Bromomethane | 10 | 11 UJ(2) | 11 UJ(2) | 12 U | 11 UJ(2) | 14 UJ(2) | 10 UJ(2) | 13 UJ | 11 UJ(2) | 11 UJ(2) | 13 UJ(2) | 10 U | 10 U |
| Vinyl Chloride | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Chloroethane | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 2 J(1) | 6 U | 1 J(1) | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Acetone | 10 | 2 UJ(1) | 26 UJ(1) | 12 U | 11 UJ(1) | 14 UJ(1) | 12 UJ | 9 UJ(1) | 4 UJ(1) | 11 UJ(2) | 13 UJ(1) | 30 J(2) | 4 J(2) |
| Carbon Disulfide | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethane | 6 | 6 U | 6 U | 6 U | 6 U | 7 U | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloroethene (total) | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chloroform | 5 | 6 U | 6 U | 6 U | 5 U | 1 J(1) | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethane | 6 | 6 U | 7 | 6 | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 2-Butanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 2 J(1) | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 6 | 6 U | 6 U | 6 U | 6 U | 7 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Benzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| 2-Hexanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 6 | 6 U | 6 U | 6 U | 6 U | 7 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Toluene | 5 | 5 U | 2 J(1) | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 08/05/91 | 08/05/91 | 08/04/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/01/91 | 08/01/91 |
| | | 6 | 13 | 15 | 7 | 27 | 1 | 22 | 7 | 11 | 22 | | |

SITE: CALVERTON
CASE NO: FD413
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 | TB8 |
|---|---|---|---|---|
| SAMPLE NUMBER: | | 12595 | 12596 | 12597 |
| | | Rinsate Blank | Field Blank | Trip Blank |
| COMPOUND | CRQL | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U |
| Acetone | 10 | 48 | 20 | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 1 J (2) | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 UJ (2) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/07/91 | 08/02/91 | 08/02/91 |
| PERCENT SOLIDS: | | | | |

UJ (2) -- Value is estimated due to continuing calibration %D > 50
J (2) - Value is estimated bec[illegible]e reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD413A
LABORATORY: NET-CAMBRIDGE

Volatile Water Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE #9 | SW-01 | SW-02 | SW-02A | TRIP BLANK-11 | TRIP BLANK#9 |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12672 | 12899 | 12900 | 12901 | 12902 | 12673 |
| | | RINSATE BLANK | | FIELD DUPLICATE PAIR | | TRIP BLANK | TRIP BLANK |
| COMPOUND | CRQL | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 10 | 39 U(1) | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 5 U | 5 U | 5 UJ(1) | 5 UJ(1) | 5 UJ(1) | 5 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/29/91 |
| DATE ANALYZED: | | 08/07/91 | 08/09/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |

CALVERTON
CASE NO. FD403C
LABORATORY: NET – CAMBRIDGE

Volatile Aqueous Analysis
ug/L

| SAMPLE LOCATION: | | | |
|---|---|---|---|
| SAMPLE NUMBER: | | FIELD BLANK #3 | TRIP BLANK #10 |
| LABORATORY ID: | | 12814 | 12815 |
| COMPOUND | CRQL | | |
| Chloromethane | 10 | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U |
| Acetone | 10 | 31 | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U |
| 1,2-Dichloroethene (total) | 5 | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U |
| DILUTION FACTOR: | | 1 | 1 |
| DATE SAMPLED: | | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/05/91 | 08/05/91 |

# RINSATES

CALVERTON
SDG: 2910CW
LABORATORY: NET – CAMBRIDGE

INORGANIC AQUEOUS ANALYSES
ug/L

| SAMPLE LOCATION: | | | | | |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | RINSATE #5 | RINSATE #8 | RINSATE #9 | |
| LABORATORY SAMPLE ID: | | 0482-12262 | 0564-12595 | 0582-12672 | |
| ANALYTE | IDL | RINSATE BLANK | RINSATE BLANK | RINSATE BLANK | CRDL |
| Aluminum | 20.0 | 154 | 27.8 | 20.0 U | 200 |
| Antimony | 30.0 | 30.0 UJ(1) | 30.0 UJ(1) | 30.0 UJ(1) | 60 |
| Arsenic | 3.0 | 3.0 U | 3.0 U | 3.0 U | 10 |
| Barium | 5.0 | 5.0 U | 5.0 U | 5.0 U | 200 |
| Beryllium | 1.0 | 1.0 U | 1.0 U | 1.0 U | 5 |
| Cadmium | 3.0 | 3.0 U | 3.0 U | 3.0 U | 5 |
| Calcium | 20.0 | 348 | 383 | 296 | 5000 |
| Chromium | 5.0 | 5.0 U | 5.0 U | 5.0 U | 10 |
| Cobalt | 5.0 | 5.0 U | 5.0 U | 5.0 U | 50 |
| Copper | 5.0 | 6.0 | 5.0 U | 5.0 U | 25 |
| Iron | 5.0 | 70.3 | 37.3 | 30.2 | 100 |
| Lead | 2.0 | 3.1 | 3.2 J(1) | 2.8 | 3 |
| Magnesium | 50.0 | 71.0 | 77.0 | 50.0 U | 5000 |
| Manganese | 1.0 | 5.7 | 2.7 | 1.4 | 15 |
| Mercury | 0.2 | 0.20 U | 0.20 U | 0.20 U | 0.2 |
| Nickel | 5.0 | 5.0 U | 5.0 U | 5.0 U | 40 |
| Potassium | 400 | 400 U | 400 U | 400 U | 5000 |
| Selenium | 2.0 | 2.0 UJ(2) | 2.0 UJ(2) | 2.0 UJ(2) | 5 |
| Silver | 5.0 | 5.0 UJ(1) | 5.0 UJ(1) | 5.0 UJ(1) | 10 |
| Sodium | 100 | 199 | 300 | 198 | 5000 |
| Thallium | 2.0 | 2.0 U | 2.0 U | 2.0 U | 10 |
| Vanadium | 5.0 | 5.0 U | 5.0 U | 5.0 U | 50 |
| Zinc | 5.0 | 61.5 J(3) | 68.3 J(3) | 31.4 J(3) | 20 |
| Cyanide | 5.0 | 5.0 UJ(2,3) | 5.0 UJ(2,3) | 5.0 UJ(2,3) | 10 |
| DATE SAMPLED: | | 07/23/91 | 07/26/91 | 07/29/91 | |

U – Value is a nondetect as reported by the laboratory.
R(1) – Value is considered to be a false positive result because of blank contamination.
UJ(1) – Nondetect is estimated because of low CRDL Standard analysis %R.
UJ(2) – Nondetect is estimated because of low MS %R.
UJ(3) – Nondetect is estimated because of field duplicate difference in excess of respective CRDL.
J(1) – Value is estimated because of low MSA r.
J(2) – Value is estimated because of low MS %R.
J(3) – Value is estimated because of field duplicate difference in excess of respective CRDL.
J(4) – Value is estimated because of ICP serial dilution %D greater than 10%.

SITE: CALVERTON
CASE NO. FD403A
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW16FP | MW11FP | MW3 | MW4 | MW5 | RINSATE5 |
|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12231 | 12232 | 12259 | 12260 | 12261 | 12262 |
| | | | | | | | Rinaste Blank |
| COMPOUND | CRQL | | | | | | |
| Chloromethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 UJ (2) | 10 U |
| Bromomethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Vinyl Chloride | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Chloroethane | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 4500 | 10 U |
| Methylene Chloride | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Acetone | 10 | 5000 UJ (1) | 5000 U | 10 U (1) | 10 U | 1000 U | 45 |
| Carbon Disulfide | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1-Dichloroethene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1-Dichloroethane | 5 | 2500 UJ (1) | 2500 U | 4 J (1) | 8 | 1700 | 5 U |
| 1,2-Dichloroethene (total) | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 790 | 5 U |
| Chloroform | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,2-Dichloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 2-Butanone | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 2500 UJ (1) | 2500 U | 24 | 50 | 130 J (1) | 5 U |
| Carbon Tetrachloride | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Vinyl Acetate | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| Bromodichloromethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,2-Dichloropropane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Trichloroethene | 5 | 2500 UJ (1) | 2500 U | 10 | 5 | 500 U | 5 U |
| Dibromochloromethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Benzene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Bromoform | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 5000 UJ (1) | 5000 U | 10 U | 10 U | 1000 U | 10 U |
| 2-Hexanone | 10 | 5000 UJ (1) | 5000 UJ (2) | 10 U | 10 U | 1000 U | 10 U |
| Tetrachloroethene | 5 | 2500 UJ (1) | 2500 U | 1 J (1) | 2 J (1) | 500 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Toluene | 5 | 2500 UJ (1) | 2500 U | 2 J (1) | 5 U | 320 J (1) | 5 U |
| Chlorobenzene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Ethylbenzene | 5 | 2500 UJ (1) | 2500 U | 12 | 5 U | 500 U | 5 U |
| Styrene | 5 | 2500 UJ (1) | 2500 U | 5 U | 5 U | 500 U | 5 U |
| Total Xylenes | 5 | 2500 UJ (1) | 2500 U | 86 | 5 U | 300 J (1) | 5 U |
| DILUTION FACTOR: | | 500 | 500 | 1.0 | 1.0 | 100 | 1.0 |
| DATE SAMPLED: | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 |
| DATE ANALYZED: | | 07/26/91 | 07/26/91 | 07/30/91 | 07/30/91 | 08/01/91 | 07/31/91 |

U (1) – Value is considered to be a false positive due to blank contamination.
UJ (1) – Value is estimated due to surrogate %Rs outside QC limits.
UJ (2) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because reported concentration is less than the CRQL.

CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | TB-3 | TB-4 | FB-1 | RINSATE-3 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11829 | 12031 | 12037 | 11828 |
| COMPOUND | CRQL | | | | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 2600 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J(1) | 2 J(1) | 5 U | 5 U |
| Acetone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 26 J(4) |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 27 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 300 | 6 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 UJ(1) | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 23 | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 3 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 4 J(1) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ(1) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 140 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 68 | 5 U | 32 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 450 | 5 U | 290 J(3) | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/16/91 | 07/16/91 | 07/18/91 | 07/18/91 | 07/16/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/28/91 | 07/28/91 | 07/29/91 | 07/26/91 | 07/29/91 | 07/28/91 | 07/28/91 |

CALVERTON
CASE NO. FD402A
LABORATORY: CAMBRIDGE/NET

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 006TB | 007RINSATE | MW15 | MW16 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11555 | 11556 | 11557 | 11559 | 11558 | 11640 | 11641 |
| | | | | | Trip Blank | Rinsate Blank | | |
| COMPOUND | CRQL | | | | | | | |
| Chloromethane | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Bromomethane | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Vinyl Chloride | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Methylene Chloride | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Acetone | 10 | 17 U (1) | 150 U (1) | 50 U | 10 U | 38 | 10 U | 50 UJ (2) |
| Carbon Disulfide | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1-Dichloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1-Dichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Chloroform | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 2-Butanone | 10 | 10 U | R (1) | 50 U | R (1) | R (1) | 10 U | R (1) |
| 1,1,1-Trichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Carbon Tetrachloride | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Vinyl Acetate | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| Bromodichloromethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,2-Dichloropropane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Trichloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Dibromochloromethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Benzene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 14 J (1) |
| trans-1,3-Dichloropropene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Bromoform | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 50 U | 50 U | 10 U | 10 U | 10 U | 50 U |
| 2-Hexanone | 10 | 10 U | 50 U | 50 U | 10 U | 10 UJ (2) | 10 U | 50 U |
| Tetrachloroethene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Toluene | 5 | 5 U | 25 U | 33 | 5 U | 5 U | 2 J (1) | 130 |
| Chlorobenzene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Ethylbenzene | 5 | 5 U | 25 U | 120 | 5 U | 5 U | 5 U | 84 |
| Styrene | 5 | 5 U | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U |
| Total Xylenes | 5 | 5 U | 720 | 960 | 5 U | 5 U | 27 | 450 |
| DILUTION FACTOR: | | 1.0 | 5.0 | 5.0 | 1.0 | 1.0 | 1.0 | 5.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 |
| DATE ANALYZED: | | 07/23/91 | 07/24/91 | 07/19/91 | 07/24/91 | 07/26/91 | 07/19/91 | 07/25/91 |

U (1) – Value is considered a false positive due to blank contamination.
UJ (2) – Value is estimated due to continuing calibration %D > 50.
J (1) – Value is estimated because it is reported at a concentration less than the CRQL.
R (1) – Value is rejected due to initial calibration RRF < 0.05.

CALVERTON
CASE NO FD403B
LABORATORY NET CAMBRIDGE

Volatile Soil Analyses
mg/Kg

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | SOIL - 10 | SOIL - 10A | SOIL - 10B | SOIL - 10C | SOIL - 11 | SOIL - 11A | SOIL - 11B | SOIL - 12 | SOIL - 12A | SOIL - 12B | RINSATE - 7 | TB - 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12470 | 12478 | 12471 | 12472 | 12473 | 12474 | 12475 | 12479 | 12476 | 12477 | 12480 | 12481 |
| COMPOUND | CRQL | | | | | | | | | | | | |
| Chloromethane | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 UJ(2) | 10 UJ(2) |
| Bromomethane | 10 | 11 UJ(2) | 11 UJ(2) | 12 U | 11 UJ(2) | 14 UJ(2) | 10 UJ(2) | 13 UJ | 11 UJ(2) | 11 UJ(2) | 13 UJ(2) | 10 U | 10 U |
| Vinyl Chloride | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Chloroethane | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 2 J(1) | 6 U | 1 J(1) | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Acetone | 10 | 2 UJ(1) | 28 UJ(1) | 12 U | 11 UJ(1) | 14 UJ(1) | 12 UJ | 9 UJ(1) | 4 UJ(1) | 11 UJ(2) | 13 UJ(1) | 30 J(2) | 4 J(2) |
| Carbon Disulfide | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethane | 6 | 5 U | 6 U | 6 U | 5 U | 7 U | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloroethene (total) | 5 | 6 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 6 U | 6 U | 5 U | 1 J(1) | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 6 U | 7 | 6 | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 2-Butanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 2 J(1) | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 6 | 5 U | 6 U | 6 U | 6 U | 7 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Benzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| 2-Hexanone | 10 | 11 U | 11 U | 12 U | 11 U | 14 U | 10 U | 13 U | 11 U | 11 U | 13 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 6 | 6 U | 6 U | 6 U | 6 U | 7 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Toluene | 5 | 5 U | 2 J(1) | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 6 U | 6 U | 5 U | 7 U | 5 U | 6 U | 5 U | 6 U | 6 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | |
| DATE SAMPLED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 |
| DATE ANALYZED: | | 08/05/91 | 08/05/91 | 08/04/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/02/91 | 08/01/91 | 08/01/91 |
| | | 8 | 13 | 15 | 7 | 27 | 1 | 22 | 7 | 11 | 22 | | |

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Volatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 | TB8 |
|---|---|---|---|---|
| SAMPLE NUMBER: | | 12595 | 12596 | 12597 |
| | | Rinsate Blank | Field Blank | Trip Blank |
| COMPOUND | CRQL | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U |
| Acetone | 10 | 48 | 20 | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 1 J (2) | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 10 UJ (2) | 10 U | 10 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 | 07/29/91 |
| DATE ANALYZED: | | 08/07/91 | 08/02/91 | 08/02/91 |
| PERCENT SOLIDS: | | | | |

UJ (2) – Value is estimated due to continuing calibration %D > 50.
J (2) – Value is estimated be[illegible]e reported concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD413A
LABORATORY: NET-CAMBRIDGE

Volatile Water Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE #9 | SW-01 | SW-02 | SW-02A | TRIP BLANK-11 | TRIP BLANK#9 |
|---|---|---|---|---|---|---|---|
| LAB SAMPLE NUMBER: | | 12672 | 12899 | 12900 | 12901 | 12902 | 12673 |
| | | RINSATE BLANK | | FIELD DUPLICATE PAIR | | TRIP BLANK | TRIP BLANK |
| COMPOUND | CRQL | | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 10 | 39 U(1) | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene(total) | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 10 | 5 U | 5 U | 5 UJ(1) | 5 UJ(1) | 5 UJ(1) | 5 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Total Xylenes | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/31/91 | 07/29/91 |
| DATE ANALYZED: | | 08/07/91 | 08/09/91 | 08/07/91 | 08/07/91 | 08/07/91 | 08/07/91 |

SITE: CALVERTON
CASE NO: F0600A
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | MW16I P | MW16 P | MW3 | MW4 | MW5 | RINSATE5 | MW4I P | MW4 P | MW3 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 12231 | 12232 | 12259 | 12260 | 12261 | 12262 Rinsate Blank | 12264 | 12265 | 12267 |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 50 | 100000 U | 5000000 U | 50 UJ (1) | 50 UJ (1) | 250 U | 50 UJ (1) | 100000 U | 100000 U | 50 U |
| Acenaphthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dinitrophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| 4-Nitrophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Dibenzofuran | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Diethylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Fluorene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Nitroaniline | 50 | 100000 U | 5000000 U | 50 UJ (1) | 50 UJ (1) | 250 U | 50 UJ (1) | 100000 U | 100000 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Hexachlorobenzene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Pentachlorophenol | 50 | 100000 U | 5000000 U | 50 U | 50 U | 250 U | 50 U | 100000 U | 100000 U | 50 U |
| Phenanthrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Di-n-butylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Pyrene | 10 | 20000 UJ (1) | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 UJ (1) | 20000 UJ (1) | 10 U |
| Butylbenzylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 40000 UJ (1) | 2000000 UJ (1) | 20 UJ (1) | 20 UJ (1) | 100 U | 20 UJ (1) | 40000 UJ (1) | 40000 UJ (1) | 20 U |
| Benzo(a)anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Chrysene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 20000 U | 990000 U | 10 U (1) | 10 U (1) | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Di-n-octylphthalate | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(b)fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(k)fluoranthene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(a)pyrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 20000 U | 990000 U | 10 U | 10 U | 50 U | 10 U | 20000 U | 20000 U | 10 U |
| DILUTION FACTOR | | 1.0 | 50 | 1.0 | 1.0 | 5.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |
| DATE EXTRACTED: | | 07/31/91 | 07/31/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/31/91 | 07/31/91 | 07/30/91 |
| DATE ANALYZED: | | 08/01/91 | 08/02/91 | 08/14/91 | 08/14/91 | 08/22/91 | 08/14/91 | 08/01/91 | 08/01/91 | 08/22/91 |

U (1) - Value is considered a false positive due to blank contamination.
UJ (1) - Value is estimated due to continuing calibration %D > 50.

SITE: CALVERTON
CASE NO. FD4C2A
LABORATORY: NET - CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION | | MW[illegible] | MW[illegible] | MW[illegible] | MW[illegible] | MW[illegible] | [illegible] | MW[illegible] | MW[illegible] | MW[illegible] |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | [illegible] | [illegible] | [illegible] | 10 U |
| Bis-2-Chloroethylether | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | 10 U | [illegible] | [illegible] | 10 U |
| 2-Chlorophenol | 10 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 1,3-Dichlorobenzene | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | 10 U | [illegible] | [illegible] | [illegible] |
| 1,4-Dichlorobenzene | 10 | 20000 U | [illegible] | 10 U | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 10 U |
| Benzyl alcohol | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | [illegible] | [illegible] | [illegible] | [illegible] |
| 1,2-Dichlorobenzene | 10 | 20000 U | 9000 U | 10 U | [illegible] | 28 | [illegible] | [illegible] | [illegible] | [illegible] |
| 2-Methylphenol | 10 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Bis-(2-Chloroisopropyl)ether | 10 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 4-Methylphenol | 10 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| N-Nitroso-Di-n-Propylamine | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Hexachloroethane | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Nitrobenzene | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Isophorone | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2-Nitrophenol | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2,4-Dimethylphenol | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Benzoic acid | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Bis-(2-Chloroethoxy)methane | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2,4-Dichlorophenol | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 1,2,4-Trichlorobenzene | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Naphthalene | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 4-Chloroaniline | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | 10 U | [illegible] | [illegible] | 10 U |
| Hexachlorobutadiene | 50 | 100000 U | 50000 U | 50 U | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 50 U |
| 2-Chloronaphthalene | 10 | 20000 U | 9000 U | 10 U | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2-Nitroaniline | 50 | 100000 U | 50000 U | 50 U | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 50 U |
| Dimethylphthalate | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | 10 U | [illegible] | [illegible] | 10 U |
| Acenaphthylene | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | 10 U | [illegible] | [illegible] | 10 U |
| 2,6-Dinitrotoluene | 10 | 20000 U | 9000 U | 10 U | 10 U | 50 U | 10 U | [illegible] | [illegible] | 10 U |
| DILUTION FACTOR | | 10 | 50 | 10 | 10 | 50 | 10 | 10 | [illegible] | 10 |
| DATE SAMPLED | | 07/17/91 | 07/19/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |
| DATE EXTRACTED | | 07/31/91 | 07/31/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/30/91 | 07/31/91 | 07/31/91 | 07/30/91 |
| DATE ANALYZED | | 08/01/91 | 08/02/91 | 08/14/91 | 08/14/91 | 08/22/91 | 08/14/91 | 08/01/91 | 08/01/91 | 08/22/91 |

J (U) = Value is estimated because reported concentration is less than the CRQL

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | Rinsate-3 | FB-1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11828 | 13027 |
| COMPOUND | CRQL | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 9 J(1) | 9 J(1) |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 3 J(1) | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 6 J(1) | 50 U | 5000 U | 50 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 97 | 10 U | 2800 | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 48 | 10 U | 7500 | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 10 U | 10 U | 10 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1000 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/29/91 | 07/29/91 | 07/30/91 | 07/30/91 | 07/29/91 | 07/29/91 | 07/29/91 |

SITE: CALVERTON
CASE NO. FD402B
LABORATORY: NET CAMBRIDGE

| SAMPLE LOCATION: | | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | Rinsate-3 | FB-1 |
|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 11824 | 11826 | 12028 | 12027 | 11827 | 11828 | 13027 |
| COMPOUND | CRQL | | | | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 5000 U | 50 U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 UJ(1) | 10 UJ(1) | 10 U | 1000 U | 10 UJ(1) | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 U | 20 U | 20 UJ(1) | 2000 UJ(1) | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 2 J(1) | 10 U | 2 J(1) | 380 J(1) | 5 J(1) | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 1000 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1000 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 |
| DATE EXTRACTED: | | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 | 07/22/91 |
| DATE ANALYZED: | | 07/29/91 | 07/29/91 | 07/30/91 | 07/30/91 | 07/29/91 | 07/29/91 | 07/29/91 |

J(1) – Value estimated because concentration is < CRQL.
UJ(1) – Nondetect estimated due to calibration %D > 50.

SITE: CALVERTON
CASE NO FD402A
LABORATORY: CAMBRIDGE/NET

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 007RINSATE | MW15 | MW16 | MW17 | MW18 | MW19 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 11555 | 11556 | 11557 | 11558 | 11640 | 11641 | 11644 | 11643 | 11642 |
| | | | | | Rinsate Blank | | | | | |
| COMPOUND | CRQL | | | | | | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 6 J (1) | 10 U | 10 U | R (1) | 10 U | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 4 J (1) | 10 U | R (1) | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 50 U | 60 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 13 | 13 | 10 U | 10 U | 110 | 10 U | 47 | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 | 11 | 10 U | 2 J (1) | 77 | 10 U | 31 | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R (1) | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 60 | 60 U | 60 U | 60 U | 60 U | 50 U | 50 U | R (1) | 60 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 60 | 60 U | 50 U | 60 U | 60 U | 50 U | 50 U | 50 U | 50 U | 60 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 |
| DATE EXTRACTED: | | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |

J (1) – Value is estimated because reported concentration is less than the CRQL.
R (1) – Value is rejected due to surrogate %Rs < 10.

SITE: CALVERTON
CASE NO FD402A
LABORATORY: CAMBRIDGE/NET

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | 001MW14 | 002MW13 | 003MW13A | 007RINSATE | MW15 | MW16 | MW17 | MW18 | MW19 |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 11555 | 11556 | 11557 | 11558 Rinsate Blank | 11640 | 11641 | 11644 | 11643 | 11642 |
| COMPOUND | CRQL | | | | | | | | | |
| 3-Nitroaniline | 50 | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 U | 50 U | 50 U | 50 U | 50 UJ (2) |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 UJ (2) | 50 U | 50 U | 50 U | 50 U | 50 UJ (2) |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | R (1) | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 3 J (1) | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 42 U (1) | 10 U (1) | 10 U (1) | 5 J (1) | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 19 | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 19 J (2) | 10 U | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 72 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) | 20 UJ (2) |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 9 J (1) | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 | 10 U | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U (1) | 10 U (1) | 10 U (1) | 10 U | 10 U (1) | 10 U (1) | 10 U | 10 U (1) | 10 U (1) |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 13 | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 8 J (1) | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 5 J (1) | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/16/91 | 07/16/91 | 07/16/91 | 07/16/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 | 07/17/91 |
| DATE EXTRACTED: | | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 | 07/18/91 |
| DATE ANALYZED: | | 07/25/91 | 07/25/91 | 07/25/91 | 07/25/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/24/91 | 07/25/91 |

U (1) - Value is considered a false positive due to blank contamination.
J (1) - Value is estimated because reported concentration is less than the CRQL.
J (2) - Value is estimated due to continuing calibration %D > 25.
UJ (2) - Value is estimated due to continuing calibration %Ds > 50.
R (1) - Value is rejected due to surrogate %Rs < 10.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 |
|---|---|---|---|
| SAMPLE NUMBER: | | 12595 | 12596 |
| | | Rinsate Blank | Field Blank |
| COMPOUND | CRQL | | |
| Phenol | 10 | 14 | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U |
| 4-Methylphenol | 10 | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U |
| Benzoic Acid | 50 | 10 J (1) | 50 U |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/22/91 | 08/14/91 |

J (1) - Value is estimated becau[illegible]orted concentration is less than the CRQL.

SITE: CALVERTON
CASE NO. FD413
LABORATORY: NET-CAMBRIDGE

Semivolatile Aqueous Analyses
ug/l

| SAMPLE LOCATION: | | RINSATE8 | FB2 |
|---|---|---|---|
| SAMPLE NUMBER: | | 12595 | 12596 |
| | | Rinsate Blank | Field Blank |
| COMPOUND | CRQL | | |
| 3-Nitroaniline | 50 | 50 U | 50 UJ (2) |
| Acenaphthene | 10 | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U |
| 4-Nitrophenol | 50 | 50 U | 50 U |
| Dibenzofuran | 10 | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 UJ (2) |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 U | 20 UJ (2) |
| Benzo(a)anthracene | 10 | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/29/91 | 07/29/91 |
| DATE EXTRACTED: | | 07/30/91 | 07/30/91 |
| DATE ANALYZED: | | 08/22/91 | 08/14/91 |

UJ (2) - Value is estimated because continuing calibration %D > 50.

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Water Analyses
ug/l

| SAMPLE LOCATION: | | SW-02A | SW-02 | SW-01 | RINSATE 9 ✓ |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12901 | 12900 | 12899 | 12672 |
| | | FIELD DUPLICATE PAIR | | | RINSATE BLANK |
| COMPOUND | CRQL | | | | |
| Phenol | 10 | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzyl Alcohol | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl) ether | 10 | 10 U | 10 U | 10 U | 10 UJ |
| 4-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane | 10 | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Isophorone | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzoic Acid | 50 | 50 U | 50 U | 50 U | 50 UJ |
| bis(2-Chloroethoxy)methane | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-Methylphenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 | 50 U | 50 U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/31/91 | 07/31/91 | 07/29/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05 | 08/05/91 | 08/05/91 |
| DATE ANALYZED: | | 08/23/91 | 08/23/91 | 08/23/91 | 08/23/ |

SITE: CALVERTON
CASE NO. FD1413A
LABORATORY: NET-CAMBRIDGE

Semivolatile Water Analyses
ug/l

| SAMPLE LOCATION: | | SW-02A | SW-02 | SW-01 | RINSATE 9 |
|---|---|---|---|---|---|
| SAMPLE NUMBER: | | 12901 | 12900 | 12899 | 12672 |
| | | FIELD DUPLICATE PAIR | | | |
| COMPOUND | CRQL | | | | |
| 3-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 U |
| Acenaphthene | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 | 50 U | 50 U | 50 U | 50 UJ |
| 4-Nitrophenol | 50 | 50 U | 50 U | 50 U | 50 UJ |
| Dibenzofuran | 10 | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 | 10 U | 10 U | 10 U | 10 U |
| Diethylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U |
| Fluorene | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 | 50 U | 50 U | 50 U | 50 UJ |
| 4,6-Dinitro-2-Methylphenol | 50 | 50 U | 50 U | 50 U | 50 U |
| N-nitrosodiphenylamine(1) | 10 | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-Phenylether | 10 | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 | 50 U | 50 U | 50 U | 50 U |
| Phenanthrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Anthracene | 10 | 10 U | 10 U | 10 U | 50 U |
| Di-n-butylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U |
| Pyrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Butylbenzylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 | 20 UJ | 20 UJ | 20 UJ | 20 U |
| Benzo(a)anthracene | 10 | 10 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | 10 U | 10 U | 10 U | 20 U |
| Bis(2-ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Di-n-octylphthalate | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 | 10 U | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 | 10 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 | 10 U | 10 U | 10 U | 10 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/31/91 | 07/31/91 | 07/31/91 | 07/29/91 |

CALVERTON
SDG: 2850CW
LABORATORY: NET-CAMBRIDGE DIVISION

INORGANI AQUEOUS ANALYSES
UG/L

| SAMPLE LOCATION: | | MW-8 | MW-9 | RINSATE #3 | |
|---|---|---|---|---|---|
| LABORATORY ID: | | 03-11824S | 03-11826S | 03-11828S | |
| | | | | RINSATE BLANK | |
| ANALYTE | IDL | | | | CRDL |
| LEAD | 20.0 | 148 | 55.0 | 2.0 U | 3.0 |
| DATE SAMPLED: | | 07/17/91 | 07/17/91 | 07/17/91 | |

U - Value is a nondetect as reported by the laboratory.

SITE: CALVERTON
CASE NO. FD403B
LABORATORY: NET CAMBRIDGE

Pesticide/PCB Soil Analyses
mg/Kg

Pesticide/PCB Aq

| SAMPLE LOCATION: | | Soil-08 | Soil-08A | Soil-08B | Soil-08C | Soil-09 | Soil-09A | Soil-09B | RINSATE-7 |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NUMBER | | 0546-12463 | 0546-12464 | 0546-12465 | 0546-12466 | 0546-12467 | 0440-12030 | 0546-12469 | 0546-12480 |
| COMPOUND | CRQL | | | | | | | | |
| alpha-BHC | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| beta-BHC | 0.05 | 8.3 U | 7.5 U | 8.5 U | 18 | 9.2 U | 8.3 U | 10 U | 0.066 U |
| delta-BHC | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| gamma-BHC(Lindane) | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Heptachlor | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Aldrin | 0.05 | 36 | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Heptachlor Epoxide | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Endosulfan I | 0.05 | 8.3 U | 7.5 U | 8.5 U | 8.2 U | 9.2 U | 8.3 U | 10 U | 0.066 U |
| Dieldrin | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| 4,4'-DDE | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| Endrin | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 14 J | 9.0 J | 0.13 U |
| Endosulfan II | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| 4,4'-DDD | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 16 J | 20 U | 0.13 U |
| Endosulfan Sulfate | 0.10 | 17 U | 15 U | 17 U | 16 U | 18 U | 17 U | 20 U | 0.13 U |
| 4,4'-DDT | 0.10 | 27 | 15 U | 17 U | 82 U | 18 U | 17 U | 20 U | 0.13 U |
| Methoxychlor | 0.50 | 83 U | 75 U | 85 U | 16 U | 92 U | 83 U | 100 U | 0.66 U |
| Endrin Ketone | 0.10 | 17 U | 15 U | 17 U | 82 U | 18 U | 17 U | 20 U | 0.13 U |
| alpha-Chlordane | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| gamma-Chlordane | 0.50 | 83 U | 75 U | 85 U | 160 U | 92 U | 83 U | 100 U | 0.66 U |
| Toxaphene | 1.0 | 170 U | 150U | 170 U | 82 U | 180 U | 170 U | 200 U | 1.3 U |
| Aroclor-1016 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1221 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1232 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1242 | 0.50 | 83 U | 75 U | 85 U | 82 U | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1248 | 0.50 | 2600 X | 75 U | 200 X | 8500 X | 92 U | 83 U | 100 U | 0.66 U |
| Aroclor-1254 | 1.0 | 170 U | 150 U | 170 U | 160 U | 180 U | 170 U | 200 U | 1.3 U |
| Aroclor-1260 | 1.0 | 170 U | 150 U | 170 U | 160 U | 300 X | 2100 X | 1600 X | 1.3 U |
| DILUTION FACTOR: | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| DATE SAMPLED: | | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 | 07/26/91 |
| DATE EXTRACTED: | | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 08/05/91 | 07/30/91 |
| DATE ANALYZED: | | 08/23/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/24/91 | 08/23/91 |
| PERCENT MOISTURE: | | 4 | 4 | 6 | 2 | 13 | 4 | 21 | |

CALVERTON
SDG: 2850CW
LABORATORY: NET- CAMBRIDGE DIVISION

INORGANIC AQUEOUS ANALYSES
UG/L

| SAMPLE LOCATION: | | MW-14 | MW-13 | MW-13A | RINSATE #7 | MW-10 | MW-11 | MW-12 | |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | 26-11555S | 26-11556S | 26-11557S | 2611558S | 40-12028S | 40-12027S | 03-11827S | |
| | | | FIELD DUPLICATE PAIR | | RINSATE BLANK | | | | |
| ANALYTE | IDL | | | | | | | | CRDL |
| LEAD | 20.0 | 23.6 | 19.7 | 20.6 | 2.0 U | 43.4 | 33.5 | 142 | 3.0 |
| DATE SAMPLED: | | 07/15/91 | 07/15/91 | 07/15/91 | 07/15/91 | 07/18/91 | 07/18/91 | 07/17/91 | |

U - Value is a nondetect as reported by the laboratory.

INORGANIC AQUEOUS ANALYSES (UG/L)
CALVERTON
SDG: 2009CS
LABORATORY: NET-CAMBRIDGE DIVISION

SAMPLE LOCATION: RINSATE #7
LABORATORY ID: 46-12480S

| ANALYTE | IDL | | CRDL |
|---|---|---|---|
| ALUMINUM | 20.0 | 22.5 | 200 |
| ANTIMONY | 30.0 | 30.0 UJ(1) | 60 |
| ARSENIC | 3.0 | 3.0 U | 10 |
| BARIUM | 5.0 | 5.0 U | 200 |
| BERYLLIUM | 1.0 | 1.0 U | 5 |
| CADMIUM | 3.0 | 3.0 U | 5 |
| CALCIUM | 20.0 | 201 | 5000 |
| CHROMIUM | 5.0 | 5.0 U | 10 |
| COBALT | 5.0 | 5.0 U | 50 |
| COPPER | 5.0 | 5.0 U | 25 |
| IRON | 5.0 | 16.7 | 100 |
| LEAD | 2.0 | 6.0 | 3 |
| MAGNESIUM | 50.0 | 50.0 U | 5000 |
| MANGANESE | 1.0 | 1.0 U | 15 |
| MERCURY | 0.20 | 0.20 U | 0.20 |
| NICKEL | 5.0 | 5.0 U | 40 |
| POTASSIUM | 400 | 400 U | 5000 |
| SELENIUM | 2.0 | 2.0 U | 5 |
| SILVER | 5.0 | 5.0 UJ(1) | 10 |
| SODIUM | 100 | 524 | 5000 |
| THALLIUM | 2.0 | 2.0 U | 10 |
| VANADIUM | 5.0 | 5.0 U | 50 |
| ZINC | 5.0 | 34.0 | 20 |
| CYANIDE | 5.0 | 5.0 U | 10 |

DATE SAMPLED: 07/25/91

U - Value is a nondetect as reported by the laboratory.
UJ(1) - Nondetect is estimated due to low CRDL Standard analysis %R.
UJ(2) - Nondetect is estimated due to low MS %R.
UJ(3) - Nondetect is estimated due to laboratory duplicate imprecision.
UJ(4) - Nondetect is estimated due to field duplicate imprecision.
J(1) - Value is estimated due to low CRDL Standard analysis %R.
J(2) - Value is estimated due to high CRDL Standard analysis %R.
J(3) - Value is estimated due to noncompliant MS %R.
J(4) - Value is estimated due to low MS %R.
J(5) - Value is estimated due to laboratory duplicate imprecision.
J(6) - Value is estimated due to ICP serial dilution %D > 10%.
J(7) - Value is estimated due to field duplicate imprecision.
R(1) - Value is rejected due to MSA r < 0.990.
R(2) - Value is rejected due to field QC blank contamination > CRDL.

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RINSATE3

Lab Name: CAMBRG Contract: NUS

Lab Code: CAMBRG Case No.: FD402B SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 11828

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J2065

Level: (low/med) LOW Date Received: 07/17/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 07/22/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 07/29/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 5.60 | 8.0 | J |
| 2. | Unknown | 6.20 | 20 | J |
| 3. | Unknown | 7.40 | 24 | J |
| 4. 930687 | 2-Cyclohexen-1-one | 8.00 | 8.0 | J |
| 5. | Unknown | 11.20 | 48 | J |
| 6. | C8H8O3 isomer | 16.10 | 28 | J |
| 7. | Unknown | 17.10 | 10 | J |
| 8. | Unknown | 19.60 | 20 | J |
| 9. | Unknown | 26.51 | 8.0 | J |
| 10. | Unknown | 30.01 | 82 | J |

# APPENDIX K

# NET LABORATORY QA/QC NOTES

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

(Formerly Cambridge Analytical Associates, Inc.)

September 5, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for groundwater samples for the Calverton, New York Neesa project. These samples were collected on July 15th and 16th and received at our facility on July 16th and 17th. The samples wer logged-in under NET job # 91.0326 and # 91.0354. The free product samples received with these samples are reported separately.

Notes for Metals analyses:

This package includes the LEAD ONLY analysis data for samples collected July 16th, 17th, 18th and 19th. These were included on NET job # 91.0326, 91.0354 91.0403 and 91.0440. The full list metals analyses for the third and fourth sampling days are reported in the data package for jobs 91.0403 and 91.0440. All samples were analyzed first on 7/25/91, but due to instrumental carryover due to high concentrations, the CCV was out of the calibration range. The remaining samples were reanalyzed on a dilution the next day. The initial analysis data are included to show the overcalibration for the diluted samples.

Notes for Volatile Organic Analysis:

A 1:5 dilution was performed on the following samples due to the high concentration of xylenes and/or aromatics:

002MW13
003MW13A
MW16
MW18

Notes for Semivolatile Organic Analysis:

Matrix interference was confirmed for sample MW17. Acid surrogate recoveries were low in the original analysis. The sample was re-extracted 3 days out of holding time with similar results. Both analyses are reported in the data package.

NET



If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Lauter (for)

D.Wesley Miller
Project Manager

## NET Atlantic, Inc. - Cambridge Division

Document Inventory

Case: FD-102

Project Number: 910326.0354.040

CLP Data Manager: Tara M. Lambert

| Item | Page |
|---|---|
| Lead Only | |
| Cover Page - Inorganic Analysis Data Package | 20001 |
| Inorganic Analysis Data Sheet(s) | 20002 |
| Q.C. Report - Initial and Continuing Calibration | 20018 |
| Q.C. Report - CRDL Standards | 20021 |
| Q.C. Report - Blanks | 20023 |
| Q.C. Report - ICP Interference Check Sample | NR |
| Q.C. Report - Spike Sample Recovery | 20025 |
| Q.C. Report - Post Digest Spike Recovery | NR |
| Q.C. Report - Duplicates | 20026 |
| Q.C. Report - Laboratory Control Standard | 20027 |
| Q.C. Report - Standard Addition Results | 20028 |
| Q.C. Report - ICP Serial Dilutions | NR |
| Q.C. Report - Instrument Detection Limits | 20029 |
| Q.C. Report - Interelement Correction Factors | NR |
| Q.C. Report - ICP Linear Ranges | NR |
| Q.C. Report - Preparation Log | 20030 |
| Q.C. Report - Analysis Run Logs | 20031 |
| Raw Data - ICP Listings | NR |
| Raw Data - Sb Worksheet(s) | NR |
| Raw Data - As Worksheet(s) | NR |
| Raw Data - Cd Worksheet(s) | NR |
| Raw Data - Pb Worksheet(s) | 20034 |
| Raw Data - Se Worksheet(s) | NR |
| Raw Data - Tl Worksheet(s) | NR |
| Raw Data - Hg Worksheet(s) | NR |
| Raw Data - CN Worksheet(s) | NR |
| Raw Data - Sample Preparation Log(s) | 20066 |
| Raw Data - Working Standard Preparation Log(s) | 20069 |

NET

CLP 2/88 Organics Deliverables Inventory

Case: Calverton / Neesa

CAA Project Number: 91.0326 / 91.0354

| Item | Page |
|---|---|
| 1. Narrative / Cover Letter | Attached |
| 2. Traffic Reports / Chain of Custody | Attached |
| 3. Volatile Organic Analysis Data | |
| 3A. QC Summary—Forms II, III, IV, V | 30002 |
| 3B. Sample Data—Forms I, Ib, Raw Data | 30032 |
| 3C. Standards Data—Forms VI, VII, VIII, Raw Data | 30157 |
| 3D. Raw QC Data | |
| 3D1. BFB Tunes | 30251 |
| 3D2. Blank Data—Forms I, Ib, Raw Data | 30276 |
| 3D3. Matrix Spike—Form I, Raw Data | 30327 |
| 3D4. Matrix Spike Duplicate—Form I, Raw Data | 30332 ~~30329~~ |
| 4. Semivolatiles Analysis Data / ABNs | |
| 4A. QC Summary—Forms II, III, IV, V | 40002 |
| 4B. Sample Data—Forms I, Ib, Raw Data | 40017 |
| 4C. Standards Data—Forms VI, VII, VIII, Raw Data | 40250 |
| 4D. Raw QC Data | |
| 4D1. DFTPP Tunes | 40284 |

NET

CLP 2/88 Organics Deliverables Inventory (cont'd)

| | |
|---|---|
| 4D2. Blank Data—Forms I, Ib, Raw Data | 40293 |
| 4D3. Matrix Spike—Form I, Raw Data | 40311 |
| 4D4. Matrix Spike Duplicate—Form I, Raw Data | 40321 |

| | N | R |
|---|---|---|
| 5. Pesticide / PCB Analysis Data | | |
| 5A. QC Summary—Forms II, III, IV | | |
| 5B. Sample Data—Form I, Raw Data | | |
| 5C. Standards Data—Forms VIII, IX, X Raw Data | | |
| 5D. Raw QC Data | | |
| 5D1. Blank Data—Form I, Raw Data | | |
| 5D3. Matrix Spike—Form I, Raw Data | | |
| 5D4. Matrix Spike Duplicate—Form I, Raw Data | | |

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

Form I-IN includes fields for three types of result qualifiers

- C Qualifier - (concentration qualifier)

  " B " - If the reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

  " U " - Analyte was not detected. The result of the analyte is less than the Instrument Detection Limit (IDL).

- Q Qualifier -

  " E " - The reported value is estimated because of the presence of interference. If the 5-fold dilution analysis for one or more analytes is not within 10%, a chemical or physical interference effect must be suspected, and the data for all affected analytes in the samples received associated with that serial dilution must be flagged with an "E" on Form IX-IN and Form I-IN.

  " M " - Duplicate injection precision not met.

  " N " - Spike sample recovery not within control limits.

  " S " - The reported value was determined by the Method of Standard Addition (MSA)

  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

  " * " - Duplicate analysis not within control limits.

  " + " - Correlation coefficient for the MSA is less than 0.995.

- M (Method) Qualifier -

  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.

E - The "E" flag identifies compound concentrations that exceed the calibration range of the GC/MS instrument. For Benzo(b) and Benzo(k)Flouranthene, the calibration range of <u>each peak</u> will be considered separately. Ortho, para, and meta xylene are quantified as two peaks, the calibration range of <u>each peak</u> will be considered separately.

D - If a sample is re-analyzed due to high concentrations and both the original analysis and re-analysis have been reported, the diluted analysis will have the "DL" suffix. All concentration values reported for the diluted analysis will be flagged with a "D".

U - The "U" flag indicates that the compound was analyzed for but not detected. The reported "U" value is the detection limit for the given compound. The value is corrected for dilution and for percent moisture.

J - The "J" flag indicates an estimated value. The flag is used for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitated value is less than the method quantitation limit.

Y - Compound values that are flagged with a "Y" have been edited on our RTE/MS data system.

X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXX = sample number
XXXXXMS = matrix spike sample
XXXXXMSD = matrix spike duplicate sample
XXXXXRE = re-analyzed sample
XXXXXDL = sample analyzed at a secondary dilution

LW 2000-00
FD407B

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
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(Formerly Cambridge Analytical Associates, Inc.)

September 5, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for groundwater samples for the Calverton, New York Neesa project. These samples were collected on July 17th and 18th and received at our facility on July 18th and 19th. The samples were logged-in under NET job # 91.0403 and # 91.0440. The free product samples received with these samples are reported separately.

Notes for Metals Analyses:

The samples requiring LEAD ONLY have been included with the data package under NET job # 91.0326 and 91.0354. This package includes the full list metals analyses. The Cyanide analysis for sample FBLK1 used a slightly reduced volume of 450 ml instead of 500 ml. This resulted in a detection limit of 5.6 ug/l instead of 5.0 ug/l.

Notes for Volatile Organic Analysis:

Two analyses are reported for sample MW12 as the initial analysis had a surrogate recovery outside of the QC limits. The surrogate recoveries for the reanalysis are within the QC limits but the sample was analyzed one day outside of holding time. We included both analyses in order to provide additional information for this sample.

Samples MW1 and MW9 required dilutions. Their initial runs are within holding time but the dilutions are analyzed one to two days outside of holding times. Both original and diluted analyses are reported.

Notes for Semivolatile Organic Analysis:

Sample MW11 was diluted due to the high levels of aromatics resulting in no surrogate recoveries being reported; (The sample was concentrated down to 20mls and an additional 1:5 dilution was performed prior to analysis).

A 1:5 dilution was performed on sample MW1 due to the sample matrix.

NET



It should be noted that there was a general trend of high phenol-d5 surrogate recovery was noticed throughout this analyses although surrogate recovery criteria was met (no more than one acid and/or one base/neutral surrogate out). No re-extractions were performed.

Notes on Pesticides Analysis:

No comments are necessary.

If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Lamb (for)

D.Wesley Miller
Project Manager

# NET Atlantic, Inc. - Cambridge Division

Document Inventory

Case: FD402

Project Number: 91 0403 0440

CLP Data Manager: Tara M Lambert

| Item | Page |
|---|---|
| Full List Metals | |
| Cover Page - Inorganic Analysis Data Package | 20001 |
| Inorganic Analysis Data Sheet(s) | 20002 |
| Q.C. Report - Initial and Continuing Calibration | 20009 |
| Q.C. Report - CRDL Standards | 20012 |
| Q.C. Report - Blanks | 20013 |
| Q.C. Report - ICP Interference Check Sample | 20015 |
| Q.C. Report - Spike Sample Recovery | 20016 |
| Q.C. Report - Post Digest Spike Recovery | NR |
| Q.C. Report - Duplicates | 20017 |
| Q.C. Report - Laboratory Control Standard | 20018 |
| Q.C. Report - Standard Addition Results | 20019 |
| Q.C. Report - ICP Serial Dilutions | 20020 |
| Q.C. Report - Instrument Detection Limits | 20021 |
| Q.C. Report - Interelement Correction Factors | 20025 |
| Q.C. Report - ICP Linear Ranges | 20027 |
| Q.C. Report - Preparation Log | 20028 |
| Q.C. Report - Analysis Run Logs | 20032 |
| Raw Data - ICP Listings | 20051 |
| Raw Data - Sb Worksheet(s) | See ICP |
| Raw Data - As Worksheet(s) | 20212 |
| Raw Data - Cd Worksheet(s) | See ICP |
| Raw Data - Pb Worksheet(s) | 20228 |
| Raw Data - Se Worksheet(s) | 20249 |
| Raw Data - Tl Worksheet(s) | 20265 |
| Raw Data - Hg Worksheet(s) | 20277 |
| Raw Data - CN Worksheet(s) | 20295 |
| Raw Data - Sample Preparation Log(s) | 20314 |
| Raw Data - Working Standard Preparation Log(s) | 20320 |

NET

CLP 2/88 Organics Deliverables Inventory

Case: Calverton / Weesa

CAA Project Number: 91.0403, 91.0440

| Item | Page |
|---|---|
| 1. Narrative / Cover Letter | Attached |
| 2. Traffic Reports / Chain of Custody | Attached |
| 3. Volatile Organic Analysis Data | |
| 3A. QC Summary--Forms II, III, IV, V | 30002 |
| 3B. Sample Data--Forms I, Ib, Raw Data | 30030 |
| 3C. Standards Data--Forms VI, VII, VIII, Raw Data | 30237 |
| 3D. Raw QC Data | |
| 3D1. BFB Tunes | 30331 |
| 3D2. Blank Data--Forms I, Ib, Raw Data | 30354 |
| 3D3. Matrix Spike--Form I, Raw Data | 30400 |
| 3D4. Matrix Spike Duplicate--Form I, Raw Data | 30405 |
| 4. Semivolatiles Analysis Data / ABNs | |
| 4A. QC Summary--Forms II, III, IV, V | 40002 |
| 4B. Sample Data--Forms I, Ib, Raw Data | 40016 |
| 4C. Standards Data--Forms VI, VII, VIII, Raw Data | 40275 |
| 4D. Raw QC Data | |
| 4D1. DFTPP Tunes | 40309 |

NET

CLP 2/88 Organics Deliverables Inventory (cont'd)

| | |
|---|---|
| 4D2. Blank Data—Forms I, Ib, Raw Data | 40318 |
| 4D3. Matrix Spike—Form I, Raw Data | 40328 |
| 4D4. Matrix Spike Duplicate—Form I, Raw Data | 40335 |

5. Pesticide / PCB Analysis Data

| | |
|---|---|
| 5A. QC Summary—Forms II, III, IV | 50002 |
| 5B. Sample Data—Form I, Raw Data | 50006 |
| 5C. Standards Data—Forms VIII, IX, X Raw Data | 50032 |
| 5D. Raw QC Data | |
| 5D1. Blank Data—Form I, Raw Data | 50108 |
| 5D3. Matrix Spike—Form I, Raw Data | 50114 |
| 5D4. Matrix Spike Duplicate—Form I, Raw Data | 50125 |

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

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  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

  " * " - Duplicate analysis not within control limits.

  " + " - Correlation coefficient for the MSA is less than 0.995.

- M (Method) Qualifier -

  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

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The following sample suffixes have been used:

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XXXXXMS = matrix spike sample
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NET NATIONAL ENVIRONMENTAL TESTING, INC.

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Cambridge Division
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Bedford, MA 01730
Tel: (617) 275-3535
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(Formerly Cambridge Analytical Associates, Inc.)

September 6, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find two metals data packages for groundwater and soil samples for the Calverton, New York Neesa project. These samples were collected on July 23 and 24 and received at our facility on July 24 and 25, 1991. The samples were logged-in under NET job # 91.0482 and # 91.0513. These packages report only the metals data for these samples. The other analyses requested have been reported separately.

Notes on Package Organization:

.e two data packages enclosed are separated by matrix into waters and soils. While they are both paginated starting with page 20000, they have different internal SDG numbers. The water package has SDG # 2926CW, and the soil package has SDG # 2021CS. These SDG Numbers appear on every data form and the initial page of each raw data sequence. Data packages are organized by the laboratory in an attempt to keep 20 samples of a similar matrix and analytical request package grouped together. Metals and organics data are sometimes packaged differently due to the different requirements of each protocol.

Notes for Metals Analyses--Water Samples:

Due to Zinc contamination in the preparation blank the samples were reprepped for Zinc analysis. All ICP elements (except Zn) are reported from the first (8/14/91) prep batch, and Zn is reported from the second (8/27/91) prep batch.

The Cyanide spike and duplicate analyses were performed on different samples than the metals spike and duplicate.

Due to reduced sample volume certain metals samples were prepared using both initial and final volumes of 50 ml instead of 100 ml. This did not effect the final data. Certain Cyanide samples were also effected by low sample volume. These samples had 400 ml of sample analyzed rather than 500 ml. This raised the detection limits for these samples from 5.0 to 6.2 ug/L.

NET



Notes for Metals Analyses--Soil Samples:

There are no notes necessary for the metals analyses on soil samples.

If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Fowler (for)

D.Wesley Miller
Project Manager

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

Form I-IN includes fields for three types of result qualifiers

- C Qualifier - (concentration qualifier)

  " B " - If the reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

  " U " - Analyte was not detected. The result of the analyte is less than the Instrument Detection Limit (IDL).

- Q Qualifier -

  " E " - The reported value is estimated because of the presence of interference. If the 5-fold dilution analysis for one or more analytes is not within 10%, a chemical or physical interference effect must be suspected, and the data for all affected analytes in the samples received associated with that serial dilution must be flagged with an "E" on Form IX-IN and Form I-IN.

  " M " - Duplicate injection precision not met.

  " N " - Spike sample recovery not within control limits.

  " S " - The reported value was determined by the Method of Standard Addition (MSA)

  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

  " * " - Duplicate analysis not within control limits.

  " + " - Correlation coefficient for the MSA is less than 0.995.

- M (Method) Qualifier -

  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

**NET Atlantic, Inc. - Cambridge Division**

SDG 29261

Document Inventory

Case: FD402F

Project Number: 91.0513

CLP Data Manager: Tom M. Lamb

WATERS


| Item | Page |
|---|---|
| Cover Page - Inorganic Analysis Data Package | 20001 |
| Inorganic Analysis Data Sheet(s) | 20002 |
| Q.C. Report - Initial and Continuing Calibration | 20005 |
| Q.C. Report - CRDL Standards | 20010 |
| Q.C. Report - Blanks | 20013 |
| Q.C. Report - ICP Interference Check Sample | 20017 |
| Q.C. Report - Spike Sample Recovery | 20020 |
| Q.C. Report - Post Digest Spike Recovery | 20022 |
| Q.C. Report - Duplicates | 20023 |
| Q.C. Report - Laboratory Control Standard | 20025 |
| Q.C. Report - Standard Addition Results | NR |
| Q.C. Report - ICP Serial Dilutions | 20026 |
| Q.C. Report - Instrument Detection Limits | 20027 |
| Q.C. Report - Interelement Correction Factors | 20032 |
| Q.C. Report - ICP Linear Ranges | 20034 |
| Q.C. Report - Preparation Log | 20035 |
| Q.C. Report - Analysis Run Logs | 20040 |
| Raw Data - ICP Listings | 20061 |
| Raw Data - Sb Worksheet(s) | See ICP |
| Raw Data - As Worksheet(s) | 20218 |
| Raw Data - Cd Worksheet(s) | See ICP |
| Raw Data - Pb Worksheet(s) | 20256 |
| Raw Data - Se Worksheet(s) | 20284 |
| Raw Data - Tl Worksheet(s) | 20304 |
| Raw Data - Hg Worksheet(s) | 20334 |
| Raw Data - CN Worksheet(s) | 20344 |
| Raw Data - Sample Preparation Log(s) | 20361 |
| Raw Data - Working Standard Preparation Log(s) | 20367 |

# U. S. EPA - CLP

## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

ab Name: NET-CAMBRIDGE DIVISION Contract: _____

Lab Code: CAMBRG Case No.: NUS SAS No.: _____ SDG No.: 2926CW

SOW No. 7/88

| EPA Sample No. | Lab Sample ID |
|---|---|
| MW6 | 13-123515 |
| MW6D | 13-123515D |
| MW6S | 13-123515DS |
| MW3 | 82-12259 |
| MW3D | 82-12259D |
| MW4 | 82-12260 |
| MW4S | 82-12260DS |

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Tara M. Lambert Name: Tara M. Lambert

Date: 09/04/91 Title: CLP Inorganic Task Manager

FD 4 D.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

(Formerly Cambridge Analytical Associates, Inc.)

September 6, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for the soil samples, one Rinsate and one Trip blank for the Calverton, New York Neesa project. These samples were collected on July 25th and received at our facility on July 26th. The samples were logged-in under NET job # 91.0546.

Notes for Metals Analysis:

Due to an incorrect entry into the metals computer, the percent solid value for sample SOIL8A. The correct value has been reentered, and all associated data have been corrected by hand.

Notes for Volatile Organic Analysis:

The original analysis of SOIL09 was not analyzed within the 12 hour tune criteria. The sample was reanalyzed(SOIL09RE) and both the original and reanalysis are reported. The Bromofluorobenzene(BFB) surrogate recovery was high in the reanalysis which is believed to have been caused by interfering hydrocarbons.

The %RPD's are high for SOIL08 MS/MSD. It is probable that poor purging efficiency of soils is the reason for the poor agreement between the MS and the MSD.

Notes for Semivolatile Organic Analysis:

No comments are necessary.

NET



Notes on Pesticide Analyses:

No comments are necessary.

If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Fowler (for)

D.Wesley Miller
Project Manager

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.

E - The "E" flag identifies compound concentrations that exceed the calibration range of the GC/MS instrument. For Benzo(b) and Benzo(k)Flouranthene, the calibration range of <u>each peak</u> will be considered separately. Ortho, para, and meta xylene are quantified as two peaks, the calibration range of <u>each peak</u> will be considered separately.

D - If a sample is re-analyzed due to high concentrations and both the original analysis and re-analysis have been reported, the diluted analysis will have the "DL" suffix. All concentration values reported for the diluted analysis will be flagged with a "D".

U - The "U" flag indicates that the compound was analyzed for but not detected. The reported "U" value is the detection limit for the given compound. The value is corrected for dilution and for percent moisture.

J - The "J" flag indicates an estimated value. The flag is used for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitated value is less than the method quantitation limit.

Y - Compound values that are flagged with a "Y" have been edited on our RTE/MS data system.

X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXX = sample number
XXXXXMS = matrix spike sample
XXXXXMSD = matrix spike duplicate sample
XXXXXRE = re-analyzed sample
XXXXXDL = sample analyzed at a secondary dilution

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

(Formerly Cambridge Analytical Associates, Inc.)

September 9, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for soil samples for the Calverton, New York Neesa project. These samples were collected on July 26th and received at our facility on July 27. The samples were logged-in under NET job # 91.0580. This package reports only BTEX and PAH analyses for these samples. Data for other samples collected on July 26 have been reported separately.

Notes on Data Package Organization:

This data package is organized in a similar fashion to a CLP data package. for both BTEX and PAH analyses the QC summary information is presented first, followed by sample data and raw QC data. At the beginning of the sample data section, data tables presenting three or four samples on a page are presented.

Notes for Volatile Organic (BTEX) Analysis:

Due to problems with the gas chromatograph used for BTEX analysis, these samples were analyzed by GC/MS (Method 8240) instead on GC (Method 8020). Three samples, SOIL 21, 21A, 21B were analyzed on August 10, and four samples, SOIL 20, 20A, 20B and 20C were analyzed on August 13. These analysis dates result in holding times of 14 and 17 days from sample receipt. These exceed both the CLP 10 day from receipt and the SW-846 (3rd ed.) 14 day from collection holding times. The samples were maintained unopened under refrigeration from the time of sample receipt. There are no other notes for volatile organics analyses.

Notes for Semivolatile Organic (PAH) Analysis:

All samples were extracted on August 9. This date results in a holding time of 13 days from sample receipt. This exceeds the CLP 10 day from receipt holding time but does not exceed the SW-846 (3rd ed.) 14 days from collection holding time. The RPDs for the matrix spike/matrix spike duplicates are rather large due to low % recoveries in the MSD. The surrogate standard recoveries are also low in the MSD analysis indicating a problem with the MSD extraction. This is possibly due to the analyst, but is also possibly due to non-uniform soil sample matrix. There are no recovery acceptance limits for these tests.

NET



If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Frank (for)

D.Wesley Miller
Project Manager

FU408 | FU410

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

(Formerly Cambridge Analytical Associates, Inc.)

September 9, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for soil samples in addition to one Rinsate, one Trip Blank and one Field Blank sample for the Calverton, New York Neesa project. These samples were collected on July 26th and received at our facility on July 29th. The samples were logged-in under NET job # 91.0564.

Notes for Metals Analyses:

This metals package includes the full list metals analyses for those samples received as listed above, plus the full list metals samples received on July 30 and August 1 (collected July 29 and 31). The Lead Only and other analyses for these samples have been reported separately.

Due to zinc contamination in the preparation blank the samples were reprepped for Zn analysis. All ICP elements (except Zn) are reported using data from the first (8/6/91) prep batch. The Zn data are reported using data from the second (8/27/91) prep batch.

There was also lead contamination in the original preparation blank. The samples were reprepped on 8/28/91. All furnace elements (except Pb) are reported using the first (8/6/91) prep batch, with Pb from the second prep batch.

Due to incorrect entry into the metals computer the percent solid value for sample SOIL03B. The correct value has been reentered, and all associated data have been corrected by hand.

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Notes for Volatile Organic Analysis:

Matrix effect was reported on the following samples:

SOIL03, SOIL03MS, SOIL03MSD
SOIL03C, SOIL03CRE
SOIL02A, SOIL02ARE
SOIL04, SOIL04MS, SOIL04MSD
SOIL04C, SOIL04CRE

Internal standard areas and surrogate recoveries were effected in most of these samples. In each case both analyses are included in the report.

Sample SOIL03MSD was analyzed 9 minutes outside of the 12 hour tune criteria. The sample was not reanalyzed as it was a matrix spike duplicate d the sample had in essence been analyzed two other times.

Notes for Semivolatile Organic Analysis:

Sample SOIL02A was concentrated down to a final volume of 10mls resulting in the surrogates being diluted out.

Notes on Pesticide Analysis:

This package reports results for one sample: FIELDBLANK2. There are no comments necessary for this analysis.

If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Lawh (for)

D.Wesley Miller
Project Manager

# NET Atlantic, Inc. - Cambridge Division

Document Inventory

Case: FD402C

Project Number: 91-0582, 0564, 06

CLP Data Manager: Tara M. Lambert

| Item | Page |
|---|---|
| Cover Page - Inorganic Analysis Data Package | 20001 |
| Inorganic Analysis Data Sheet(s) | 20002 |
| Q.C. Report - Initial and Continuing Calibration | 20018 |
| Q.C. Report - CRDL Standards | 20026 |
| Q.C. Report - Blanks | 20029 |
| Q.C. Report - ICP Interference Check Sample | 20034 |
| Q.C. Report - Spike Sample Recovery | 20037 |
| Q.C. Report - Post Digest Spike Recovery | 20039 |
| Q.C. Report - Duplicates | 20041 |
| Q.C. Report - Laboratory Control Standard | 20043 |
| Q.C. Report - Standard Addition Results | 20044 |
| Q.C. Report - ICP Serial Dilutions | 20045 |
| Q.C. Report - Instrument Detection Limits | 20047 |
| Q.C. Report - Interelement Correction Factors | 20052 |
| Q.C. Report - ICP Linear Ranges | 20054 |
| Q.C. Report - Preparation Log | 20055 |
| Q.C. Report - Analysis Run Logs | 20061 |
| Raw Data - ICP Listings | 20093 |
| Raw Data - Sb Worksheet(s) | See ICP |
| Raw Data - As Worksheet(s) | 20267 |
| Raw Data - Cd Worksheet(s) | See ICP |
| Raw Data - Pb Worksheet(s) | 20307 |
| Raw Data - Se Worksheet(s) | 20346 |
| Raw Data - Tl Worksheet(s) | 20406 |
| Raw Data - Hg Worksheet(s) | 20435 |
| Raw Data - CN Worksheet(s) | 20465 |
| Raw Data - Sample Preparation Log(s) | 20501 |
| Raw Data - Working Standard Preparation Log(s) | 20516 |

NET

CLP 2/88 Organics Deliverables Inventory

Case: Calverton, Neesa

CAA Project Number: 91.0564

| Item | Page |
|---|---|
| 1. Narrative / Cover Letter | Attached |
| 2. Traffic Reports / Chain of Custody | Attached |
| 3. Volatile Organic Analysis Data | |
| 3A. QC Summary—Forms II, III, IV, V | 30002 |
| 3B. Sample Data—Forms I, Ib, Raw Data | 30035 |
| 3C. Standards Data—Forms VI, VII, VIII, Raw Data | 30190 |
| 3D. Raw QC Data | |
| 3D1. BFB Tunes | 30288 |
| 3D2. Blank Data—Forms I, Ib, Raw Data | 30313 |
| 3D3. Matrix Spike—Form I, Raw Data | 30361 |
| 3D4. Matrix Spike Duplicate—Form I, Raw Data | 30374 |
| 4. Semivolatiles Analysis Data / ABNs | |
| 4A. QC Summary—Forms II, III, IV, V | 40002 |
| 4B. Sample Data—Forms I, Ib, Raw Data | 40034 |
| 4C. Standards Data—Forms VI, VII, VIII, Raw Data | 40239 |
| 4D. Raw QC Data | |
| 4D1. DFTPP Tunes | 40327 |

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CLP 2/88 Organics Deliverables Inventory (cont'd)

| | |
|---|---|
| 4D2. Blank Data—Forms I, Ib, Raw Data | 40346 |
| 4D3. Matrix Spike—Form I, Raw Data | 40383 |
| 4D4. Matrix Spike Duplicate—Form I, Raw Data | 40399 |

5. Pesticide / PCB Analysis Data

| | |
|---|---|
| 5A. QC Summary—Forms II, III, IV | 50002 |
| 5B. Sample Data—Form I, Raw Data | 50006 |
| 5C. Standards Data—Forms VIII, IX, X Raw Data | 50010 |
| 5D. Raw QC Data | |
| 5D1. Blank Data—Form I, Raw Data | 50078 |
| 5D3. Matrix Spike—Form I, Raw Data | N/A |
| 5D4. Matrix Spike Duplicate—Form I, Raw Data | ↓ |

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

Form I-IN includes fields for three types of result qualifiers

- C Qualifier - (concentration qualifier)

  " B " - If the reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

  " U " - Analyte was not detected. The result of the analyte is less than the Instrument Detection Limit (IDL).

- Q Qualifier -

  " E " - The reported value is estimated because of the presence of interference. If the 5-fold dilution analysis for one or more analytes is not within 10%, a chemical or physical interference effect must be suspected, and the data for all affected analytes in the samples received associated with that serial dilution must be flagged with an "E" on Form IX-IN and Form I-IN.

  " M " - Duplicate injection precision not met.

  " N " - Spike sample recovery not within control limits.

  " S " - The reported value was determined by the Method of Standard Addition (MSA)

  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

  " * " - Duplicate analysis not within control limits.

  " + " - Correlation coefficient for the MSA is less than 0.995.

- M (Method) Qualifier -

  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.

E - The "E" flag identifies compound concentrations that exceed the calibration range of the GC/MS instrument. For Benzo(b) and Benzo(k)Flouranthene, the calibration range of <u>each peak</u> will be considered separately. Ortho, para, and meta xylene are quantified as two peaks, the calibration range of <u>each peak</u> will be considered separately.

D - If a sample is re-analyzed due to high concentrations and both the original analysis and re-analysis have been reported, the diluted analysis will have the "DL" suffix. All concentration values reported for the diluted analysis will be flagged with a "D".

U - The "U" flag indicates that the compound was analyzed for but not detected. The reported "U" value is the detection limit for the given compound. The value is corrected for dilution and for percent moisture.

J - The "J" flag indicates an estimated value. The flag is used for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitated value is less than the method quantitation limit.

Y - Compound values that are flagged with a "Y" have been edited on our RTE/MS data system.

X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXX = sample number
XXXXXMS = matrix spike sample
XXXXXMSD = matrix spike duplicate sample
XXXXXRE = re-analyzed sample
XXXXXDL = sample analyzed at a secondary dilution

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NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
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12 Oak Park
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(Formerly Cambridge Analytical Associates, Inc.)

September 9, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for soil and aqueous samples for the Calverton, New York Neesa project. These samples were collected on July 29th and the 31st and received at our facility on July 30th and August 1st. The samples were logged-in under NET job # 91.0582 and 91.0642.

Notes on Metals Analyses:

This submittal includes two metals data packages, a group of soil samples for Lead only and a package of aqueous samples for the full list of metals. The Lead only package includes data for samples from the July 29th sampling only (NET job # 91.0582). The full list aqueous package includes samples from both July 29 and 31 sampling days in addition to the following additional water
samples. These samples listed below have their other analyses reported in other data packages:

| Sample ID | Date Collected |
|---|---|
| MW-3 | 7/23/91 |
| MW-4 | 7/23/91 |
| MW-5 | 7/23/91 |
| RINSATE#5 | 7/23/91 |
| RINSATE#8 | 7/26/91 |
| Field Blank#2 | 7/26/91 |
| RINSATE#9 | 7/29/91 |
| Field Blank#3 | 7/30/91 |

The pages of the soil-Lead only package have "SL" appended to each page number to distinguish them from the water-full analysis package. There are no other notes on the soil Lead only package. Due to reduced sample volume the Cyanide analyses for samples MW-3 and MW-4 were performed using 400 ml rather than 500 ml. This resulted in raising the detection limits for these samples from 5.0 to 6.2 ug/L.

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Notes for Volatile Organics Analyses:

The analyses for samples SOIL01B and SOIL22 did not meet QC requirements for internal standards and surrogate recoveries. Second analyses were completed on these samples and the results indicated that there were matrix interference problems. Both the original and the re-analysis data have been included in the data package.

Notes for Semivolatile Organic Analysis:

No comments necessary.

Notes on Pesticide Analyses:

No comments necessary.

If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Jaworski (for)

D. Wesley Miller
Project Manager

C

**NET Atlantic, Inc. - Cambridge Division**

Document Inventory

Case: FD402A

Project Number: 91-0582

CLP Data Manager: Tara M. Lambert

| Item | Page |
|---|---|
| Soil - Lead only | |
| Cover Page - Inorganic Analysis Data Package | 20001 SL |
| Inorganic Analysis Data Sheet(s) | 20002 SL |
| Q.C. Report - Initial and Continuing Calibration | 20012 SL |
| Q.C. Report - CRDL Standards | 20017 SL |
| Q.C. Report - Blanks | 20018 SL |
| Q.C. Report - ICP Interference Check Sample | NR SL |
| Q.C. Report - Spike Sample Recovery | 20021 SL |
| Q.C. Report - Post Digest Spike Recovery | NR SL |
| Q.C. Report - Duplicates | 20022 SL |
| Q.C. Report - Laboratory Control Standard | 20023 SL |
| Q.C. Report - Standard Addition Results | NR |
| Q.C. Report - ICP Serial Dilutions | NR |
| Q.C. Report - Instrument Detection Limits | 20024 SL |
| Q.C. Report - Interelement Correction Factors | NR |
| Q.C. Report - ICP Linear Ranges | NR |
| Q.C. Report - Preparation Log | 20025 S |
| Q.C. Report - Analysis Run Logs | 20026 SL |
| Raw Data - ICP Listings | NR |
| Raw Data - Sb Worksheet(s) | NR |
| Raw Data - As Worksheet(s) | NR |
| Raw Data - Cd Worksheet(s) | NR |
| Raw Data - Pb Worksheet(s) | 20029 SL |
| Raw Data - Se Worksheet(s) | NR |
| Raw Data - Tl Worksheet(s) | NR |
| Raw Data - Hg Worksheet(s) | NR |
| Raw Data - CN Worksheet(s) | NR |
| Raw Data - Sample Preparation Log(s) | 20058 SL |
| Raw Data - Working Standard Preparation Log(s) | 20061 SL |

w/ 0582

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# NET Atlantic, Inc. - Cambridge Division

Document Inventory

Case: FD~~40~~ 413A

Project Number: 91-0482, 0564, 0587, 0607, 0641

CLP Data Manager: Tara M. Lambert

| Item FULL List Metals - Aqueous | Page |
|---|---|
| Cover Page - Inorganic Analysis Data Package | 20001 |
| Inorganic Analysis Data Sheet(s) | 20002 |
| Q.C. Report - Initial and Continuing Calibration | 20013 |
| Q.C. Report - CRDL Standards | 20021 |
| Q.C. Report - Blanks | 20024 |
| Q.C. Report - ICP Interference Check Sample | 20029 |
| Q.C. Report - Spike Sample Recovery | 20030 |
| Q.C. Report - Post Digest Spike Recovery | 20031 |
| Q.C. Report - Duplicates | 20032 |
| Q.C. Report - Laboratory Control Standard | 20033 |
| Q.C. Report - Standard Addition Results | 20034 |
| Q.C. Report - ICP Serial Dilutions | 20035 |
| Q.C. Report - Instrument Detection Limits | 20036 |
| Q.C. Report - Interelement Correction Factors | 20041 |
| Q.C. Report - ICP Linear Ranges | 20043 |
| Q.C. Report - Preparation Log | 20044 |
| Q.C. Report - Analysis Run Logs | 20048 |
| Raw Data - ICP Listings | 20077 |
| Raw Data - Sb Worksheet(s) | See ICP |
| Raw Data - As Worksheet(s) | 20230 |
| Raw Data - Cd Worksheet(s) | See ICP |
| Raw Data - Pb Worksheet(s) | 20290 |
| Raw Data - Se Worksheet(s) | 20315 |
| Raw Data - Tl Worksheet(s) | 20380 |
| Raw Data - Hg Worksheet(s) | 20396 |
| Raw Data - CN Worksheet(s) | 20426 |
| Raw Data - Sample Preparation Log(s) | 20460 |
| Raw Data - Working Standard Preparation Log(s) | 20468 |

NET

CLP 2/88 Organics Deliverables Inventory

Case: Calverton, Neesa

CAA Project Number: 91.0582, 91.0642

| Item | Page |
|---|---|
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| 2. Traffic Reports / Chain of Custody | Attached |
| 3. Volatile Organic Analysis Data | |
| 3A. QC Summary—Forms II, III, IV, V | 30002 |
| 3B. Sample Data—Forms I, Ib, Raw Data | 30034 |
| 3C. Standards Data—Forms VI, VII, VIII, Raw Data | 30284 |
| 3D. Raw QC Data | |
| 3D1. BFB Tunes | 30382 |
| 3D2. Blank Data—Forms I, Ib, Raw Data | 30407 |
| 3D3. Matrix Spike—Form I, Raw Data | 30463 |
| 3D4. Matrix Spike Duplicate—Form I, Raw Data | 30469 |
| 4. Semivolatiles Analysis Data / ABNs | |
| 4A. QC Summary—Forms II, III, IV, V | 40002 |
| 4B. Sample Data—Forms I, Ib, Raw Data | 40032 |
| 4C. Standards Data—Forms VI, VII, VIII, Raw Data | 40347 |
| 4D. Raw QC Data | |
| 4D1. DFTPP Tunes | 40430 |

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CLP 2/88 Organics Deliverables Inventory (cont'd)

| | |
|---|---|
| 4D2. Blank Data—Forms I, Ib, Raw Data | 40449 |
| 4D3. Matrix Spike—Form I, Raw Data | 40501 |
| 4D4. Matrix Spike Duplicate—Form I, Raw Data | 40507 |

5. Pesticide / PCB Analysis Data

| | |
|---|---|
| 5A. QC Summary—Forms II, III, IV | 50002 |
| 5B. Sample Data—Form I, Raw Data | 50006 |
| 5C. Standards Data—Forms VIII, IX, X Raw Data | 50016 |
| 5D. Raw QC Data | |
| 5D1. Blank Data—Form I, Raw Data | 50084 |
| 5D3. Matrix Spike—Form I, Raw Data | 50088 |
| 5D4. Matrix Spike Duplicate—Form I, Raw Data | 50092 |

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

Form I-IN includes fields for three types of result qualifiers

- C Qualifier - (concentration qualifier)

  " B " - If the reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

  " U " - Analyte was not detected. The result of the analyte is less than the Instrument Detection Limit (IDL).

- Q Qualifier -

  " E " - The reported value is estimated because of the presence of interference. If the 5-fold dilution analysis for one or more analytes is not within 10%, a chemical or physical interference effect must be suspected, and the data for all affected analytes in the samples received associated with that serial dilution must be flagged with an "E" on Form IX-IN and Form I-IN.

  " M " - Duplicate injection precision not met.

  " N " - Spike sample recovery not within control limits.

  " S " - The reported value was determined by the Method of Standard Addition (MSA)

  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

  " * " - Duplicate analysis not within control limits.

  " + " - Correlation coefficient for the MSA is less than 0.995.

- M (Method) Qualifier -

  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.

E - The "E" flag identifies compound concentrations that exceed the calibration range of the GC/MS instrument. For Benzo(b) and Benzo(k)Flouranthene, the calibration range of <u>each peak</u> will be considered separately. Ortho, para, and meta xylene are quantified as two peaks, the calibration range of <u>each peak</u> will be considered separately.

D - If a sample is re-analyzed due to high concentrations and both the original analysis and re-analysis have been reported, the diluted analysis will have the "DL" suffix. All concentration values reported for the diluted analysis will be flagged with a "D".

U - The "U" flag indicates that the compound was analyzed for but not detected. The reported "U" value is the detection limit for the given compound. The value is corrected for dilution and for percent moisture.

J - The "J" flag indicates an estimated value. The flag is used for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitated value is less than the method quantitation limit.

Y - Compound values that are flagged with a "Y" have been edited on our RTE/MS data system.

X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXX = sample number
XXXXXMS = matrix spike sample
XXXXXMSD = matrix spike duplicate sample
XXXXXRE = re-analyzed sample
XXXXXDL = sample analyzed at a secondary dilution

2017CS/2018CS/ F040

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
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Fax: (617) 275-7411

(Formerly Cambridge Analytical Associates, Inc.)

September 9,1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for soil samples plus one Field Blank and one Trip Blank for the Calverton, New York Neesa project. These samples were collected on July 30th and received at our facility on July 31st. The samples were logged-in under NET job # 91.0607.

Notes on Metals Analyses:

The metals data samples are split into two packages since each package can only have one Spike/Duplicate set. The packages have either an "A" or a "B" appended to each page number to distinguish them from each other. No other comments are necessary for the metals.

Notes for Volatile Organic Analysis:

The surrogate recovery for Bromofluorobenzene(BFB) was high in sample SOIL13A (12806) due to obvious matrix interference. The sample was not reanalyzed.

The %RPD for SOIL16 MSD was high, while the % recovery was within limits. No additional action was taken.

Notes for Semivolatile Organic Analysis:

Sample SOIL13A (NET 12806) was diluted 1:5 prior to analysis due to the high concentration of hydrocarbons present in the sample. Surrogates were diluted out.

Sample SOIL14 (NET 12807) was diluted 1:10 prior to analysis due to the high concentration of hydrocarbons. The sample was re-analyzed to verify matrix interference as the area of I.S. 6 was high. Both analyses are reported.

NET



Notes on Pesticide Analyses:

This package reports results for only one sample: FIELDBLANK 3. No comments are necessary for this sample.

If you have any questions regarding any of this information, please do not hesitate to give me a call.

Sincerely,

Edward A. Lawler (for)

D.Wesley Miller
Project Manager

20000 7

**NET Atlantic, Inc. - Cambridge Division**

Document Inventory

Case: FD402D

Project Number: 91-0607

"A" Pkg

CLP Data Manager: Tara M. Lamb

| Item Soils - Lead only | Page |
|---|---|
| Cover Page - Inorganic Analysis Data Package | 20001 A |
| Inorganic Analysis Data Sheet(s) | 20002 A |
| Q.C. Report - Initial and Continuing Calibration | 20014 A |
| Q.C. Report - CRDL Standards | 20019 A |
| Q.C. Report - Blanks | 20023 A |
| Q.C. Report - ICP Interference Check Sample | NR |
| Q.C. Report - Spike Sample Recovery | 20028 A |
| Q.C. Report - Post Digest Spike Recovery | NR |
| Q.C. Report - Duplicates | 20029 A |
| Q.C. Report - Laboratory Control Standard | 20030 A |
| Q.C. Report - Standard Addition Results | 20031 A |
| Q.C. Report - ICP Serial Dilutions | NR |
| Q.C. Report - Instrument Detection Limits | 20032 A |
| Q.C. Report - Interelement Correction Factors | NR |
| Q.C. Report - ICP Linear Ranges | NR |
| Q.C. Report - Preparation Log | 20034 A |
| Q.C. Report - Analysis Run Logs | 20035 A |
| Raw Data - ICP Listings | NR |
| Raw Data - Sb Worksheet(s) | NR |
| Raw Data - As Worksheet(s) | NR |
| Raw Data - Cd Worksheet(s) | NR |
| Raw Data - Pb Worksheet(s) | 20040 A |
| Raw Data - Se Worksheet(s) | NR |
| Raw Data - Tl Worksheet(s) | NR |
| Raw Data - Hg Worksheet(s) | NR |
| Raw Data - CN Worksheet(s) | NR |
| Raw Data - Sample Preparation Log(s) | 20088 A |
| Raw Data - Working Standard Preparation Log(s) | 20091 A |

20000 B

**NET Atlantic, Inc. - Cambridge Division**

Document Inventory

"B" pkg.

Case: FD402

Project Number: 91-0607

CLP Data Manager: Tom M. Lambert

| Item | Page |
|---|---|
| Soil - Lead only | |
| Cover Page - Inorganic Analysis Data Package | 20001 B |
| Inorganic Analysis Data Sheet(s) | 20002 B |
| Q.C. Report - Initial and Continuing Calibration | 20013 B |
| Q.C. Report - CRDL Standards | 20018 B |
| Q.C. Report - Blanks | 20021 B |
| Q.C. Report - ICP Interference Check Sample | NR |
| Q.C. Report - Spike Sample Recovery | 20024 B |
| Q.C. Report - Post Digest Spike Recovery | NR |
| Q.C. Report - Duplicates | 20025 B |
| Q.C. Report - Laboratory Control Standard | 20026 B |
| Q.C. Report - Standard Addition Results | 20027 B |
| Q.C. Report - ICP Serial Dilutions | NR |
| Q.C. Report - Instrument Detection Limits | 20028 B |
| Q.C. Report - Interelement Correction Factors | NR |
| Q.C. Report - ICP Linear Ranges | NR |
| Q.C. Report - Preparation Log | 20030 B |
| Q.C. Report - Analysis Run Logs | 20031 B |
| Raw Data - ICP Listings | NR |
| Raw Data - Sb Worksheet(s) | NR |
| Raw Data - As Worksheet(s) | NR |
| Raw Data - Cd Worksheet(s) | NR |
| Raw Data - Pb Worksheet(s) | 20036 B |
| Raw Data - Se Worksheet(s) | NR |
| Raw Data - Tl Worksheet(s) | NR |
| Raw Data - Hg Worksheet(s) | NR |
| Raw Data - CN Worksheet(s) | NR |
| Raw Data - Sample Preparation Log(s) | 20082 B |
| Raw Data - Working Standard Preparation Log(s) | 20085 B |

NET

CLP 2/88 Organics Deliverables Inventory

Case: Calverton, Neesa

CAA Project Number: 91.0607

| Item | Page |
|---|---|
| 1. Narrative / Cover Letter | Attached |
| 2. Traffic Reports / Chain of Custody | Attached |
| 3. Volatile Organic Analysis Data | |
| 3A. QC Summary—Forms II, III, IV, V | 30002 |
| 3B. Sample Data—Forms I, Ib, Raw Data | 30033 |
| 3C. Standards Data—Forms VI, VII, VIII, Raw Data | 30286 |
| 3D. Raw QC Data | |
| 3D1. BFB Tunes | 30380 |
| 3D2. Blank Data—Forms I, Ib, Raw Data | 30403 |
| 3D3. Matrix Spike—Form I, Raw Data | 30446 |
| 3D4. Matrix Spike Duplicate—Form I, Raw Data | 30458 |
| 4. Semivolatiles Analysis Data / ABNs | |
| 4A. QC Summary—Forms II, III, IV, V | 40002 |
| 4B. Sample Data—Forms I, Ib, Raw Data | 40041 |
| 4C. Standards Data—Forms VI, VII, VIII, Raw Data | 40562 |
| 4D. Raw QC Data | |
| 4D1. DFTPP Tunes | 40671 |

NET

CLP 2/88 Organics Deliverables Inventory (cont'd)

| | |
|---|---|
| 4D2. Blank Data—Forms I, Ib, Raw Data | 40696 |
| 4D3. Matrix Spike—Form I, Raw Data | 40751 |
| 4D4. Matrix Spike Duplicate—Form I, Raw Data | 40762 |

5. Pesticide / PCB Analysis Data

| | |
|---|---|
| 5A. QC Summary—Forms II, III, IV | 50002 |
| 5B. Sample Data—Form I, Raw Data | 50006 |
| 5C. Standards Data—Forms VIII, IX, X Raw Data | 50010 |
| 5D. Raw QC Data | |
| 5D1. Blank Data—Form I, Raw Data | 50078 |
| 5D3. Matrix Spike—Form I, Raw Data | N/A |
| 5D4. Matrix Spike Duplicate—Form I, Raw Data | N/A |

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

Form I-IN includes fields for three types of result qualifiers

- C Qualifier - (concentration qualifier)

  " B " - If the reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

  " U " - Analyte was not detected. The result of the analyte is less than the Instrument Detection Limit (IDL).

- Q Qualifier -

  " E " - The reported value is estimated because of the presence of interference. If the 5-fold dilution analysis for one or more analytes is not within 10%, a chemical or physical interference effect must be suspected, and the data for all affected analytes in the samples received associated with that serial dilution must be flagged with an "E" on Form IX-IN and Form I-IN.

  " M " - Duplicate injection precision not met.

  " N " - Spike sample recovery not within control limits.

  " S " - The reported value was determined by the Method of Standard Addition (MSA)

  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

  " * " - Duplicate analysis not within control limits.

  " + " - Correlation coefficient for the MSA is less than 0.995.

- M (Method) Qualifier -

  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.

E - The "E" flag identifies compound concentrations that exceed the calibration range of the GC/MS instrument. For Benzo(b) and Benzo(k)Flouranthene, the calibration range of <u>each peak</u> will be considered separately. Ortho, para, and meta xylene are quantified as two peaks, the calibration range of <u>each peak</u> will be considered separately.

D - If a sample is re-analyzed due to high concentrations and both the original analysis and re-analysis have been reported, the diluted analysis will have the "DL" suffix. All concentration values reported for the diluted analysis will be flagged with a "D".

U - The "U" flag indicates that the compound was analyzed for but not detected. The reported "U" value is the detection limit for the given compound. The value is corrected for dilution and for percent moisture.

J - The "J" flag indicates an estimated value. The flag is used for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitated value is less than the method quantitation limit.

Y - Compound values that are flagged with a "Y" have been edited on our RTE/MS data system.

X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXX = sample number
XXXXXMS = matrix spike sample
XXXXXMSD = matrix spike duplicate sample
XXXXXRE = re-analyzed sample
XXXXXDL = sample analyzed at a secondary dilution

"A" packet

2000:A

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MET-CAMBRIDGE DIVISION  Contract:

Lab Code: CAMBRG  Case No.: NUS  SAS No.:  SDG No.: 2017

SOW No.: 7/89

| EPA Sample No | Lab Sample ID. |
|---|---|
| ASL15 - SOIL 15A | 07-12793S |
| ASL17 - SOIL 17A | 07-12799S |
| ASL18 - SOIL-18A | 07-12802S |
| ASL19 - SOIL 19A | 07-12795S |
| SED03 | 07-12800S |
| SL15 - SOIL 15 | 07-12791S |
| SL15C - SOIL 15C | 07-12792S |
| SL15D - SOIL15 - Duplicate | 07 12791S2 |
| SL15S - SOIL 15 SPIKE | 07-12791DS |
| SL17 - SOIL 17 | 07-12797S |
| SL17C - SOIL 17C | 07-12798S |
| SL18 - SOIL 18 | 07-12801S |
| SL19 - SOIL 19 | 07-12794S |
| SL19B - SOIL 19B | 07-12796S |
| | |
| | |
| | |
| | |
| | |
| | |

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Tara M. Lambert  Name: Tara M. Lambert

Date: 08/27/91  Title: CLP INORGANIC TASK MANAGER

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

(Formerly Cambridge Analytical Associates, Inc.)

September 5, 1991

Mr. David Brayack
Haliburton NUS
Cliff Mine Road
Park West Two
Pittsburgh, PA 15274

RE: Data Packages for Calverton, New York

Dear Mr. Brayack,

Enclosed please find the data package for soil, aqueous and Free Product samples for the Calverton, New York Neesa project. These samples were collected on July 16th through the 24th and received at our facility on July 17th through the 25th. The samples were logged-in under NET job # 91.0474, 91.0482, and 91.0513. There were a number of problems encountered during the analysis of the Free Product samples. Some of these were due to the nature of the sample matrix itself, and not being easily analyzable using these procedures. Additional problems were due to confusion regarding the expected methods of analysis and which analyses were requested on these samples. These problems are outlined below.

Notes for Metals Analysis:

This data package only reports the Free Product samples. The aqueous and soil samples received with these samples are reported in the data package for NET job # 91.0582. Samples MW-4FP and MW-5FP were initially analyzed for Lead only by mistake. These samples were requested to be analyzed for the full list of metals. When this was discovered the samples were analyzed by commercial rather than CLP procedures, since the CLP preparation QC was not performed for all analytes. The full list/commercial QC and raw data are included following the CLP data package, with copies of the commercial "Form 1" data following the CLP Form 1s. Mercury was performed by the CLP procedure, and is included on the CLP Form 1s.

The digestion procedures were modified to better deal with the sample matrix. Blanks and LCS were digested in the same manner as the samples.

Notes for Volatile Organic Analysis:

Free Product samples MW-16FP(DL-Diluted analysis) and MW-11FP were analyzed greater than 12 hours from the BFB tune. These samples were set-up at the end of the analytical batch so as not to contaminate other samples. A MS/MSD was requested for sample MW-16FP, but due to a lab error this was never analyzed. The holding time has expired before the error was discovered. The FP samples were analyzed using large dilutions required by the sample matrix.

NET



Soil samples SOIL05 and SOIL06 were analyzed twice to confirm matrix interference with internal or surrogate standard recoveries. Both sets of data are reported.

Notes for Semivolatile Organic Analysis:

Sample MW4 (NET 12260) was double spiked with surrogates so that the % recoveries were doubled. Recoveries were corrected based on a doubled concentration.

Sample MW11FP (NET 12232) was a Free Product sample that was extracted by the medium level technique, and was also diluted 1:50 in the laboratory prior to analysis due to high levels of hydrocarbons present in the sample. The surrogates were diluted out.

Sample MW5 (NET 12261) had a 1:5 dilution performed prior to analysis due to high levels of hydrocarbons present in the sample.

Sample SOIL05 (NET 12342) was concentrated down to 5mls resulting in a 1:5 dilution. The surrogates were diluted out.

Matrix effect was verified by reanalysis for sample SOIL06 (NET 12345). The internal standards were low due to obvious matrix interference. The sample was reanalyzed with a 1:5 dilution verifying the matrix interference.

Sample SOIL07B (NET 12350) was rerun with a 1:10 dilution due to obvious matrix interference, The internal standard areas for I.S. # 4 and 5 were affected.

The method of analysis was not determined for the Free Product samples until after the holding times had expired for Sample MW-16FP. We believe that the soil or water holding times should not be applied to the FP samples since they are neither matrix but are apparently oil instead.

NET



Notes on Pesticide Analyses:

No comments are necessary.

f you have any questions regarding any of this information, please do not esitate to give me a call.

Sincerely,

Edward A. Fanto (for)

D.Wesley Miller
Project
Manager

20000

NET Atlantic, Inc. - Cambridge Division

Document Inventory

Case: 2907CW

Project Number: 91.0474.048

CLP Data Manager: E. West

| Item | Free Product - Metals. | Page |
|---|---|---|
| Cover Page - Inorganic Analysis Data Package | | 001 |
| Inorganic Analysis Data Sheet(s) | | 002 |
| Q.C. Report - Initial and Continuing Calibration | | 006 |
| Q.C. Report - CRDL Standards | | 011 |
| Q.C. Report - Blanks | | 012 |
| Q.C. Report - ICP Interference Check Sample | | NR |
| Q.C. Report - Spike Sample Recovery | | 015 |
| Q.C. Report - Post Digest Spike Recovery | | NR |
| Q.C. Report - Duplicates | | 017 |
| Q.C. Report - Laboratory Control Standard | | 019 |
| Q.C. Report - Standard Addition Results | | 020 |
| Q.C. Report - ICP Serial Dilutions | | NR |
| Q.C. Report - Instrument Detection Limits | | 021 |
| Q.C. Report - Interelement Correction Factors | | NR |
| Q.C. Report - ICP Linear Ranges | | NR |
| Q.C. Report - Preparation Log | | 023 |
| Q.C. Report - Analysis Run Logs | | 025 |
| Raw Data - ICP Listings | | NR |
| Raw Data - Sb Worksheet(s) | | NR |
| Raw Data - As Worksheet(s) | | NR |
| Raw Data - Cd Worksheet(s) | | NR |
| Raw Data - Pb Worksheet(s) | | 032 |
| Raw Data - Se Worksheet(s) | | NR |
| Raw Data - Tl Worksheet(s) | | NR |
| Raw Data - Hg Worksheet(s) | | 061 |
| Raw Data - CN Worksheet(s) | | NR |
| Raw Data - Sample Preparation Log(s) | | 093 |
| Raw Data - Working Standard Preparation Log(s) | | 096 |
| "Commercial" Analysis Data for MW-4FP / MW-5FP | | 20099 |

NET

CLP 2/88 Organics Deliverables Inventory

Case: Calverton / Neesa

CAA Project Number: 91.0474, 91.0482, 91.0513

| Item | Page |
|---|---|
| 1. Narrative / Cover Letter | Attached |
| 2. Traffic Reports / Chain of Custody | Attached |
| 3. Volatile Organic Analysis Data | |
| 3A. QC Summary—Forms II, III, IV, V | 30002 |
| 3B. Sample Data—Forms I, Ib, Raw Data | 30045 |
| 3C. Standards Data—Forms VI, VII, VIII, Raw Data | 30317 |
| 3D. Raw QC Data | |
| 3D1. BFB Tunes | 30459 |
| 3D2. Blank Data—Forms I, Ib, Raw Data | 30494 |
| 3D3. Matrix Spike—Form I, Raw Data | N/A |
| 3D4. Matrix Spike Duplicate—Form I, Raw Data | N/A |
| 4. Semivolatiles Analysis Data / ABNs | |
| 4A. QC Summary—Forms II, III, IV, V | 40002 |
| 4B. Sample Data—Forms I, Ib, Raw Data | 40031 |
| 4C. Standards Data—Forms VI, VII, VIII, Raw Data | 40497 |
| 4D. Raw QC Data | |
| 4D1. DFTPP Tunes | 40580 |

NET

CLP 2/88 Organics Deliverables Inventory (cont'd)

| | |
|---|---|
| 4D2. Blank Data—Forms I, Ib, Raw Data | 40597 |
| 4D3. Matrix Spike—Form I, Raw Data | 40628 |
| 4D4. Matrix Spike Duplicate—Form I, Raw Data | 40634 |

5. Pesticide / PCB Analysis Data

| | |
|---|---|
| 5A. QC Summary—Forms II, III, IV | 50002 |
| 5B. Sample Data—Form I, Raw Data | 50012 |
| 5C. Standards Data—Forms VIII, IX, X Raw Data | 50097 |
| 5D. Raw QC Data | |
| 5D1. Blank Data—Form I, Raw Data | 50362 |
| 5D3. Matrix Spike—Form I, Raw Data | 50379 |
| 5D4. Matrix Spike Duplicate—Form I, Raw Data | 50408 |

NET

## Inorganic CLP SOW 7/87 Data Qualifiers

Form I-IN includes fields for three types of result qualifiers

- C Qualifier - (concentration qualifier)

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  " W " - Postdigested spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

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  " P " - for ICP

  " A " - for Flame AA

  " F " - for Furnace AA

  " CV "- for Manual Cold Vapor AA

  " C " - for Manual Spectrophotometric

  " NR "- if the analyte is not required to be analyzed

NET

## ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifers have been used for reporting results:

B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.

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X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXX = sample number
XXXXXMS = matrix spike sample
XXXXXMSD = matrix spike duplicate sample
XXXXXRE = re-analyzed sample
XXXXXDL = sample analyzed at a secondary dilution

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENC

C-49-10-5-72

TO: DAVE BRAYAK

DATE: OCTOBER 5, 1991

FROM: KAREN SABOLOSKY

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - BTEX/PAH
CALVERTON, NY
NET CONTROL # 91.0580

SAMPLES:

Soils:

Soil-

| | | | |
|---|---|---|---|
| 20 | 20B | 21 | 21B |
| 20A | 20C | 21A | |

NET Laboratories, Incorporated analyzed 7 soil samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and Polynuclear Aromatic Hydrocarbons (PAHs). Although associated field quality control blanks were taken, none were analyzed under this particular analytical grouping.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program" -NEESA. The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated according to the following parameters:

- Data completeness
- Holding times
- GC/MS tuning and performance
- Initial and continuing calibration
- Laboratory and field blank analyses
- * Surrogate spike recoveries
- * Matrix spike and matrix spike duplicate results
- Field duplicate precision
- Detection limits
- Sample quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are discussed below and the attached Table I summarizes the validation qualifications.

BTEX Fraction

The laboratory did not provide statistically derived surrogate quality control limits. When contacted, the laboratory explained that this quality control information is not included as part of the analytical data package, but is compiled and presented in periodic progress reports submitted to the client Project Manager. Because these quality control limits are not available at this time, the data reviewer proceeded by using professional judgement to evaluate the associated data.

The laboratory used three surrogates (1) 2-fluorobiphenyl and (2) para-terphenyl, which the laboratory uses as petroleum hydrocarbon fingerprint surrogate, and (3) bromofluorobenzene which the laboratory uses as a volatile surrogate. All recoveries for the volatile surrogate were greater than 80%, which is acceptable for soil analyses, in the professional opinion of the data reviewer.

PAH Fraction

As explained previously, no quality control acceptance ranges for surrogates are available from the laboratory at this time. In the professional opinion of the data reviewer, recoveries for both semivolatile surrogates were typical of soil analyses, therefore, the data are accepted without qualification.

Likewise, no statistical recovery (quality control) limits for matrix spike/matrix spike duplicate analyses are available from the laboratory at this time. Professional judgement was used to evaluate the data. All matrix spike/matrix spike duplicate recoveries were very typical of analysis for PAHs in soil. The data is accepted without qualification.

Additional Comments

No other problems were noted. Please do not hesitate to contact me if you have any questions regarding this review.

CALVERTON, NY
NET CONTROL # 91.0580

TABLE I - RECOMMENDATION SUMMARY

| Sample No. | BTEX | PAHs |
|---|---|---|
| SOIL20 | | |
| SOIL20A | | |
| SOIL20B | | |
| SOIL20C | | |
| SOIL21 | | |
| SOIL21A | | |
| SOIL21B | | |

If the field is left blank, the qualifier is A - Accept data without qualification.

HALLIBURTON NUS
*Environmental Corporation*

INTERNAL CORRESPONDENCE

C-49-9-1-364

TO: DAVE BRAYAK

DATE: SEPTEMBER 20, 1991

FROM: KAREN M. SMECKER

CC: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS & CYANIDE
CALVERTON
SDG 2852CW

**SAMPLES:**

Water:

| | | | |
|---|---|---|---|
| PW-3 | PW-3A | PW-2 | PW-1 |
| MW-1 | MW-2 | | |

Water:

FIELD BLANK #1

NET Laboratories analyzed 6 water samples and 1 aqueous field blank for Target Analyte List (TAL) metals and cyanide. No field duplicates were included in this sample set.

Data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program; NEESA". The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated
according to the following parameters:

- o Data Completeness
- o Holding Times
- * o Calibration Verification
- * o Laboratory and Field Blank Analyses
- o ICP Interference Check Sample Results
- * o Matrix Spike Recoveries
- o Laboratory Duplicates
- * o Furnace Atomic Absorption Results
- o ICP Serial Dilution Results
- o Detection Limits
- o Sample Quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are addressed below and the attached Table 1 summarizes the validation qualifications.

Calibration Verification

CRDL Standard analysis Percent Recoveries (%Rs) for antimony and silver were low (< 80%). Nondetects for these analytes are qualified as estimated, "UJ"; no positive results were reported.

The CRDL Standard analysis %R for zinc exceeded the 120% upper quality control limit. Positive results < 3X CRDL for this analyte (not qualified due to blank contamination) are qualified as estimated, "J".

Blanks

Sample FIELD BLANK #1 is a field quality control blank and according to data validation protocol is not qualified for blank contamination.

Laboratory method and field blank analyses yielded the following contaminants in the maximum concentrations indicated:

| Contaminant | Maximum Concentration (ug/l) | Action Level (ug/l) |
|---|---|---|
| aluminum | 78.4 | 392 |
| calcium | 292 | 1460 |
| iron | 35.6 | 178 |
| magnesium | 53.1 | 266 |
| manganese | 1.1 | 5.5 |
| nickel | 9.1 | 45.5 |
| zinc | 54.1 | 270 |

Positive sample results less than the action level are qualified as estimated nondetects, "UJ". No actions were taken for calcium and magnesium because all sample concentrations for these analytes are greater than the action level.

Negative blank contamination at the following maximum levels was evident for the analytes indicated below:

| Contaminant | Maximum Concentration (ug/l) |
|---|---|
| nickel | - 6.4 |
| potassium | - 557 |
| sodium | - 1198 |

Negative blank contamination is an indication of poor instrument performance. Positive results (not qualified on the basis of

positive blank contamination) and nondetects for these analytes are qualified as estimated, "J" and "UJ", respectively.

Matrix Spike Recoveries

The Matrix Spike (MS) %R for selenium was low (< 75, but > 30). Only nondetects were reported for this analyte, and they are qualified as estimated, "UJ".

Furnace Atomic Absorption Results

Five samples had Post Digestion Spike (PDS) %Rs for selenium below the 85% lower quality control criterion. Selenium nondetects in these samples are qualified as estimated, "UJ".

Please do not hesitate to contact me with questions regarding this review.

**CALVERTON**
**SDG 2852CW**

**TABLE 1 - RECOMMENDATION SUMMARY**

| | | | |
|---|---|---|---|
| Aluminum | $J^1$ | Magnesium | |
| Antimony | $J^3$ | Manganese | $J^1$ |
| Arsenic | | Mercury | |
| Barium | | Nickel | $J^1$, $J^2$ |
| Beryllium | | Potassium | $J^2$ |
| Cadmium | | Selenium | $J^5$, $J^6$ |
| Calcium | | Silver | $J^3$ |
| Chromium | | Sodium | $J^2$ |
| Cobalt | | Thallium | |
| Copper | | Vanadium | |
| Iron | $J^1$ | Zinc | $J^1$, $J^4$ |
| Lead | | Cyanide | |

If the field is left blank, the qualifier is A - Accept all data.

$J^1$ - Estimate "UJ" positive results within the action level because of influence from blank contamination.

$J^2$ - Estimate "J" positive results and "UJ" nondetects due to negative blank contamination.

$J^3$ - Estimate "UJ" nondetects due to CRDL Standard analysis %R < 80.

$J^4$ - Estimate "J" positive result < 3X CRDL in sample FIELD BLANK #1 due to high CRDL Standard analysis recovery.

$J^5$ - Estimate "UJ" nondetects due to low MS recovery.

$J^6$ - Estimate "UJ" nondetects in affected samples due to GFAA PDS %Rs < 85.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-9-1-225

TO: DAVE BRAYAK

DATE: SEPTEMBER 17, 1991

FROM: KAREN M. SMECKER

CC: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS & CYANIDE
CALVERTON
SDG 2009CS

SAMPLES:

Soil:

| | | | |
|---|---|---|---|
| SOIL-08 | SOIL-08A | SOIL-08B | SOIL-08C |
| SOIL-09 | SOIL-09A | SOIL-09B | SOIL-10 |
| SOIL-10B | SOIL-10C | SOIL-11 | SOIL-11A |
| SOIL-11B | SOIL-12A | SOIL-12B | |

Water:

RINSATE #7

~~Versar~~ NET Laboratories analyzed 15 soil samples and 1 aqueous rinsate blank for Target Analyte List (TAL) metals and cyanide. No field duplicates were included in this sample set.

Data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program; NEESA". The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated
according to the following parameters:

- o Data Completeness
- o Holding Times
- * o Calibration Verification
- * o Laboratory and Field Blank Analyses
- o ICP Interference Check Sample Results
- * o Matrix Spike Recoveries
- * o Laboratory Duplicates
- * o Furnace Atomic Absorption Results
- o ICP Serial Dilution Results
- o Detection Limits
- o Sample Quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are addressed below and the attached Table 1 summarizes the validation qualifications.

Calibration Verification

CRDL Standard analysis Percent Recoveries (%Rs) for antimony and silver were below the 80% lower quality control limit. Positive results < 3X CRDL and nondetects for these analytes are qualified as estimated, "J" and "UJ", respectively.

The CRDL Standard analysis %R for cadmium was high ( > 120%). Positive cadmium results < 3X CRDL are qualified as estimated, "J".

Blanks

Sample RINSATE #7 is a field quality control blank and according to data validation protocol is not qualified for blank contamination.

Laboratory method and rinsate blank analyses yielded the following contaminants in the maximum concentrations indicated:

| Contaminant | Maximum Concentration | Action Level (mg/kg) |
|---|---|---|
| aluminum | 23.4 ug/l | 23.4 |
| calcium | 201 ug/l | 201 |
| iron | 7.74 mg/kg | 39.0 |
| lead | 6.0 ug/l | 6.0 |
| sodium | 324 ug/l | 324 |
| zinc | 34.0 ug/l | 34.0 |

Positive sample results less than the action level are qualified as estimated nondetects, "UJ". Adjustments for individual sample size and moisture content were made prior to the application of action levels. No actions were taken for aluminum and iron since all sample concentrations for this analyte are greater than the action level.

Negative blank contamination at the following maximum levels was evident for the analytes indicated below:

| Contaminant | Maximum Concentration (ug/l) |
|---|---|
| manganese | - 1.7 |
| nickel | - 6.0 |
| potassium | - 425.9 |

Negative blank contamination is an indication of poor instrument performance. Positive results and nondetects for these analytes in all samples are qualified as estimated, "J" and "UJ", respectively.

Matrix Spike Recoveries

Matrix Spike (MS) %Rs for antimony, lead and cyanide were below the 75% lower quality control criterion, but above 30% for the soil matrix. Only positive results were reported for lead in soil samples, and these positive results (not qualified based on blank contamination) are qualified as estimated, "J". Positive results and nondetects for antimony and cyanide in soils are qualified as estimated, "J" and "UJ", respectively.

Laboratory Duplicates

Relative Percent Differences (RPDs) for mangnaese, copper, lead, silver and cyanide exceeded the 35% quality control criterion for soils. Positive results (not qualified due to blank contamination) and nondetects for these analytes in soils are qualified as estimated, "J" and "UJ", respectively.

Furnace Atomic Absorption Results

The Method of Standard Additions (MSA) correlation coefficient (r) for lead in one sample was low ( < 0.995). No further action was necessary since the positive result for lead in this sample is qualified because of blank contamination.

Post Digestion Spike (PDS) %Rs for lead and selenium in several samples failed to meet the 85 - 115% quality control limits. No qualifications were made for selenium since nondetects were not felt to have been impacted by high PDS recoveries. Positive results for lead in samples SOIL-10 and RINSATE #7 are qualified as estimated, "J"; no further actions were taken for lead in the other two affected samples since positive results in these samples are qualified on the basis of blank contamination.

No other problems were noted. Please do not hesitate to contact me with questions regarding this review.

**CALVERTON**
**SDG 2009CS**

**TABLE 1 - RECOMMENDATION SUMMARY**

| | | | |
|---|---|---|---|
| Aluminum | | Magnesium | |
| Antimony | $J^3$, $J^5$ | Manganese | $J^2$, $J^6$ |
| Arsenic | | Mercury | |
| Barium | | Nickel | $J^2$ |
| Beryllium | | Potassium | $J^2$ |
| Cadmium | $J^4$ | Selenium | |
| Calcium | $J^1$ | Silver | $J^3$, $J^6$ |
| Chromium | | Sodium | $J^1$ |
| Cobalt | | Thallium | |
| Copper | $J^6$ | Vanadium | |
| Iron | | Zinc | $J^1$ |
| Lead | $J^1$, $J^5$, $J^6$, $J^7$ | Cyanide | $J^5$, $J^6$ |

If the field is left blank, the qualifier is A - Accept all data.

$J^1$ - Estimate "UJ" positive results within the action level because of influence from blank contamination.

$J^2$ - Estimate "J" positive results and "UJ" nondetects because of negative blank contamination.

$J^3$ - Estimate "J" positive results < 3X CRDL and "UJ" nondetects because of low CRDL Standard analysis recovery.

$J^4$ - Estimate "J" positive results < 3X CRDL because CRDL Standard analysis %R was > 120.

$J^5$ - Estimate "J" positive results and "UJ" nondetects in soils because of low MS recovery.

$J^6$ - Estimate "J" positive results and "UJ" nondetects in soil samples because of laboratory duplicate imprecision.

$J^7$ - Estimate "J" positive results in affected samples because of non-compliant GFAA PDS recoveries.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-1-9-266

TO: DAVE BRAYACK

DATE: SEPTEMBER 24, 1991

FROM: KAREN SABOLOSKY

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA/PEST/PCB
CALVERTON, NY, NWIRP
NET CONTROL #91.0546

SAMPLES:

Soils:

| | | | | |
|---|---|---|---|---|
| 08 | 09 | 10A | 11A | 12B |
| 08A | 09A | 10B | 11B | |
| 08B | 09B | 10C | 12 | |
| 08C | 10 | 11 | 12A | |

Waters:

Rinsate #7 Trip blank #7

NET Laboratories, Incorporated analyzed 17 soil samples (including two field duplicate pairs), 1 rinsate blank, and 1 trip blank for Target Compound List (TCL) volatile organic, semivolatile, and pesticide/PCB compounds.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program - (NEESA)". The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated according to the following parameters:

- Data completeness
- Holding times
- GC/MS tuning and mass calibration
- * Initial and continuing calibrations
- * Laboratory and field blank analyses
- * Surrogate spike recoveries
- * Matrix spike/matrix spike duplicate results
- Field duplicate precision
- Internal standards performance
- Detection limits
- Sample quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are

discussed below and the attached Table I summarizes the validation qualifications.

Volatile Fraction

One initial calibration Percent Relative Standard Deviation (%RSD) for bromomethane exceeded the 50% quality control limit. No positive results were reported for this compound in affected samples; nondetects are qualified as estimated, "UJ".

Initial calibration %RSDs for acetone, 1,2-dichloroethene, and 2-butanone exceeded the 30% quality control limit. No action was taken for acetone as all affected results are either nondetects or are qualified for blank contamination. No qualifications were made for the remaining compounds since no positive results were reported for these compounds in affected samples.

Continuing calibration Percent Differences (%Ds) for bromomethane, acetone and chloromethane exceeded the 50% quality control limit. Nondetects for these compounds are qualified as estimated, "UJ" in affected samples.

Continuing calibration %Ds for bromoform, 4-methyl-2-pentanone, acetone, 2-butanone, 2-hexanone and vinyl acetate exceeded the 25% quality control limit. No qualifications were made since no positive results (not qualified for blank contamination), were reported for these compounds in affected samples.

The maximum concentrations of contaminants detected in trip, rinsate and laboratory method blank analyses are summarized below:

| Common Contaminant | Maximum Concentration (ug/L) |
|---|---|
| acetone | 30 |
| 2-butanone | 15 |

Action levels of ten times the maximum amount of these common contaminants (300 ug/kg acetone; 150 ug/kg 2-butanone), were used to evaluate the data. Dilution factors were considered prior to application of all action levels. Sample contaminant concentrations reported at levels below the action level are followed by the estimated nondetect qualifier, "UJ".

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) Relative Percent Differences (RPDs) for 1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene exceeded quality control

limits. No action was taken since all recoveries were acceptable and no positive results were reported for these compounds in the unspiked sample (SOIL08).

Sample SOIL09 was originally analyzed outside of the 12-hour calibration time. The sample was subsequently reanalyzed (SOIL09RE) within proper calibration time. Since all results (except for acetone) were within agreement, the initial data results were used for validation.

Positive results for several compounds are qualified as estimated, "J", because of detection at a concentration below the Contract Required Quantitation Limit (CRQL).

Semivolatile Fraction

Some continuing calibration %Ds for pyrene, 3,3'-dichlorobenzidine and 4-nitroaniline exceeded the 50% quality control limit. Positive results for these compounds in affected samples are qualified as estimated, "J", and nondetects as "UJ."

Some continuing calibration %Ds for pyrene exceeded 25%. Positive results for this compound in affected samples are qualified as estimated, "J". Continuing calibration %Ds for several other compounds exceeded 25%, but no actions are required since no positive results were reported for these compounds in affected samples.

The maximum concentrations of contaminants detected in trip, rinsate and laboratory method blank analyses are summarized below:

| Common Contaminant | Maximum Concentration (ug/L) |
|---|---|
| bis(2-ethylhexyl)phthalate | 210 |
| di-n-butylphthalate | 2100 |
| butylbenzylphthalate | 890 |

Action levels of ten times the maximum amount of these common contaminants were used to evaluate the data. Dilution factors were considered prior to application of all action levels. Sample contaminant concentrations reported at levels below the action level are followed by the estimated nondetect qualifier, "UJ".

The MS/MSD %RPD for pyrene exceeded the quality control limit. No further action was necessary since this compound in the unspiked sample (SOIL10) was qualified as estimated, "J" based on detection

less than the CRQL.

Several Tentatively Identified Compounds (TICs) were found in laboratory method and field quality control blanks analyzed with this sample set. Environmental sample results for these TICs reported at concentrations less than five times the maximum amount found in the blanks are crossed-out on the appended Form I-TIC reports.

Pesticide/PCB

The continuing calibration %D exceeded the quantitation column 15% quality control limit for 4,4'-DDT and methoxychlor. No action was necessary because data from this calibration was not used to quantify the affected compounds.

Positive results for endrin in samples SOIL9A and SOIL9B are qualified as estimated, "J" because of detection at levels less than the CRQL.

Please do not hesitate to contact me if you have any questions regarding this review.

CALVERTON, NY, NWIRP
NET CONTROL #91.0546

TABLE I - RECOMMENDATION SUMMARY

| Sample No. | Volatile | Semivolatile | Pesticide/PCB |
|---|---|---|---|
| 08 | $J^{1}$ | $A^{2}$, $J^{3,6,13}$ | |
| 08A | $J^{1,7}$ | $A^{2}$, $J^{3}$ | |
| 08B | $A^{1}$, $J^{1,13}$ | $A^{2}$, $J^{3}$ | |
| 08C | $A^{1}$, $J^{1,}$ | $A^{2}$, $J^{3,6,13}$ | |
| 09 | $A^{1,}$ $J^{1,5,13}$ | $A^{2}$, $J^{3,4,13}$ | |
| 09A | | $A^{2}$, $J^{3,6,13}$ | |
| 09B | $J^{13}$ | $A^{2}$, $J^{2,3,4,13}$ | |
| 10 | $A^{1}$, $J^{1,5}$ | $A^{2}$, $J^{3,6,13}$ | |
| 10A | $A^{1}$, $J^{1,5,13}$ | | |
| 10B | | $A^{2}$, $J^{3,6,13}$ | |
| 10C | $A^{1}$, $J^{1,13}$ | $A^{2}$, $J^{6,13}$ | |
| 11 | $J^{1,7,13}$ | $A^{2}$ | |
| 11A | $A^{1}$, $J^{1,7}$ | $A^{2}$ | |
| 11B | $A^{1}$, $J^{1,5}$ | $A^{2}$ | |
| 12 | $A^{1}$, $J^{1,5}$ | | |
| 12A | $J^{1,7}$ | $A^{2}$ | |
| 12B | $A^{1}$, $J^{1}$ | | |
| Trip blank #7 | $J^{9,11}$ | | |
| Rinsate #7 | $J^{9,11}$ | | |

$A^{1}$ - Change positive result for acetone and 2-butanone (where appropriate) to a revised detection limits because of blank contamination.

$A^{2}$ - Change positive result for butylbenzyl phthalate, bis(2-ethyhexyl)phthalate, and di-n-butylphthalate (where appropriate) to a revised detection limit because of blank contamination.

$J^{1}$ - Estimate "UJ" nondetect for bromomethane because continuing calibration %D is greater than 50%.

$J^{2}$ - Estimate "J" positive result for pyrene because continuing calibration %D is greater than 50%.

$J^{3}$ - Estimate "UJ" nondetect for 3,3'-dichlorobenzidine because continuing calibration %D is greater than 50%.

$J^4$ - Estimate "UJ" nondetect for 4-nitroaniline because continuing calibration %D is greater than 50%.

$J^5$ - Estimate "UJ" nondetects for bromomethane because continuing calibration %D exceeded 50%.

$J^6$ - Estimate "J" positive results for pyrene because continuing calibration %D is greater than 25%.

$J^7$ Estimate "UJ" nondetect for acetone because continuing calibration %D exceeded 50%.

$J^8$ - Estimate "J" positive results reported at concentrations < CRQL.

$J^9$ - Estimate "J" positive result for acetone because continuing calibration %D was greater than 30%.

$J^{10}$ - Estimate "J" positive results for acetone, toluene and xylene because surrogate %R is greater than the quality control limit.

$J^{11}$ - Estimate "UJ" nondetect for chromethane because continuing calibration %D was greater than 50%.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-10-1-78

TO: DAVE BRAYACK

DATE: OCTOBER 7, 1991

FROM: KENT WEAVER

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA/PESTICIDES & PCBs
CALVERTON/NAVY CLEAN
CASE NO. FD402B

SAMPLES:

Waters:

| | | |
|---|---|---|
| PW-3 | MW-8 | MW-10 |
| PW-3A | MW-9 | MW-1 |
| PW-1 | MW-12 | MW-2 |
| PW-2 | MW-11 | MW-7 |

Waters:

| | |
|---|---|
| FB-1 | TB-3 |
| Rinsate-3 | TB-4 |

NET CAMBRIDGE Laboratories analyzed 12 water samples (including one field duplicate pair), 1 field blank, 1 rinsate blank, and 2 trip blanks for Target Compound List (TCL) volatile and semivolatile organic compounds, pesticides and PCBs.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program - NEESA". The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated according to the following parameters:

- Data Completeness
- Holding times
- GC/MS tuning and mass calibration
- * Initial and continuing calibrations
- * Laboratory and field blanks
- Internal standards
- * Surrogate spike recoveries
- * Matrix spike/matrix spike duplicate results
- Detection limits
- Sample quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are

discussed below and the attached Table 1 summarizes the validation qualifications.

Volatile Fraction

The initial calibration average Relative Response Factor (RRF) for 2-butanone was below the 0.05 quality control limit. Nondetects for this compound in affected samples have been rejected, qualified "R".

Continuing calibration Percent Differences (%Ds) for 2-hexanone, 2-butanone, and acetone exceeded 50%. No positive results were reported for these compounds in the affected samples; affected nondetects are qualified as estimated "UJ".

Some continuing calibration Percent Differences (%Ds) for acetone, chloroethane, methylene chloride, carbon disulfide, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, and bromoform exceeded the 25% quality control criterion. The positive result for acetone in sample Rinsate-3 is qualified as estimated, "J". No action was taken for the other compounds because no positive results were reported for these compounds in any affected sample.

A maximum concentration of 26 ug/L acetone was detected in a rinsate blank analyzed with this sample set. An action level of 260 ug/L for this common contaminant was used to evaluate the data. Dilution factors were considered prior to the application of the action level. Samples with positive results for acetone reported at concentrations greater than the Contract Required Quantitation Limit (CRQL) but less than the action level, have been qualified as an estimated nondetect, "UJ".

Methylene chloride, bromoform, 1,1,2-trichloroethane, and 1,1,2,2-tetrachloroethane were also detected in laboratory method blanks and/or trip blanks analyzed with this sample set. No action was taken because no positive results were reported for these compounds in any sample.

Sample MW-11 should have been diluted and reanalyzed by the laboratory (but was not), because it contained a concentration of total xylenes at a level which exceeded the instrument's linear calibration range. The result reported for total xylenes in the

undiluted sample is qualified as estimated, "J".

Sample MW-1 was diluted due to sample matrix interferences. However, because most of the positive results reported for the initial analysis occurred at concentrations below the dilution detection limits, the initial results for this sample were used in validation. These initial analysis results are affected by high Percent Recoveries (%Rs) for two surrogates. All positive results for sample MW-1 have been qualified as estimated "J".

Sample MW-12 was reanalyzed because of low surrogate recovery. The reanalysis results were generated within the holding time allowance and all surrogate recoveries for the reanalysis were acceptable. Hence, the reanalysis results for this sample were used in validation without any qualification based on these occurrences.

Sample MW-9 was diluted and reanalyzed because of the presence of several target compounds at concentrations which exceeded the instrument's linear calibration range. The dilution results for these affected compounds along with the initial analysis results for the remaining compounds were used in validation.

Some positive results for some compounds are reported at concentrations less than the CRQL and are considered to be approximate; these results are qualified as estimated, "J".

Semivolatile Fraction

Continuing calibration %Ds for 3,3'-dichlorobenzidiene and pyrene exceeded the 50% quality control limit. Nondetects for these compounds in affected samples are qualified as estimated, "UJ".

Some continuing calibration %Ds for benzoic acid, 4-nitroaniline, and pyrene exceeded the 25% quality control limit. Positive results for benzoic acid in affected samples are qualified as estimated "J". No qualifications were made for the other compounds because no positive results were reported for these compounds in affected samples.

A maximum concentration of 9 ug/L phenol was detected in rinsate and field blanks analyzed with this sample set. No action was taken because no positive results for this compound were reported in any sample.

Several surrogate spike %Rs were outside QC limits. No qualifications were made because only one surrogate for each fraction was exceeded in the affected samples.

The Matrix Spike (MS) Percent Recovery (%R) for 4-nitrophenol exceeded the upper quality control limit; and the Matrix Spike Duplicate (MSD) %Rs for phenol, 4-chloro-3-methylphenol, 2,4-dinitrotoluene, and pyrene were also outside of QC limits. No actions were taken because no positive results were reported for these compounds in the unspiked sample.

It was necessary to analyze sample MW-11 at a dilution because of sample matrix interferences, resulting in no surrogate recoveries being reported; no action is required. No undiluted analysis was performed for this sample.

Positive results for some compounds are qualified as estimated, "J", because they are below the CRQL.

Tentatively Identified Compounds (TICs) were detected in rinsate and laboratory method blanks analyzed with this sample set. Sample results for these TICs detected at levels less than five times the maximum amount of TIC detected in the blanks have been deleted (crossed out) on the Form I BNA-TIC reports.

Pesticide PCB Fraction

Several quantitation column continuing calibration %Ds for heptachlor epoxide, 4,4'-DDT, beta-BHC, 4,4'-DDD, endrine ketone, endrin, and endosulfan sulfate exceeded the 15% quality control criterion. No action was taken because no positive results were reported for the affected compounds, and the exceedances were not gross enough to compromise the detection limits.

Please note that samples MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12 were not analyzed for the pesticide/PCB fraction as per the associated Chain-of-Custody reports.

No other problems were noted. Please do not hesitate to contact me if you have any questions regarding this review.

CALVERTON/NAVY CLEAN
CASE NO. FD402B

TABLE 1 - RECOMMENDATION SUMMARY

| Sample No. | Volatile | Semivolatile | Pesticide/PCB |
|---|---|---|---|
| PW-3 | R[1], J[1,2] | J[2,3] | |
| PW-3A | R[1], J[1] | J[3] | |
| PW-1 | R[1], J[1] | J[2,3] | |
| PW-2 | R[1], J[1,2] | J[2,3] | |
| MW-8 | J[4,9] | J[2,5] | |
| MW-9 | J[2] | J[2,5,6] | |
| MW-12 | | J[2,5] | |
| MW-11 | J[8] | J[2,3] | |
| MW-10 | J[2] | J[2,3] | |
| MW-1 | J[7] | J[2,3] | |
| MW-2 | A[1], J[1,2] | J[3] | |
| MW-7 | A[1], J[9] | J[2,5,6] | |
| TB-3 | J[2] | | |
| TB-4 | J[1,2] | | |
| Rinsate-3 | J[4] | J[5] | |
| FB-1 | | J[5] | |

A[1] - Estimate "UJ" positive results for acetone because of blank contamination.

J[1] - Estimate "UJ" nondetect for 2-hexanone because of continuing calibration %D > 50%.

J[2] - Estimate "J" positive results for compounds detected at concentrations less than the CRQL.

J[3] - Estimate "UJ" nondetects for 3,3-dichlorobenzidiene because of continuing calibration %D > 50.

$J^4$ - Estimate "J" positive result in sample Rinsate-3, and estimate "UJ" nondetects for acetone in remaining affected samples, because continuing calibration %D was > 50%.

$J^5$ - Estimate "UJ" nondetects for pyrene because of continuing calibration %D > 50%.

$J^6$ - Estimate "J" positive results for benzoic acid because continuing calibration %D > 25%.

$J^7$ - Estimate "J" positive results because surrogate %R was outside QC limits.

$J^8$ - Estimate "J" positive result for total xylenes because concentration exceeds instrument's linear calibration range.

$J^9$ - Estimate "UJ" nondetects for 2-butanone because of continuing calibration %D > 50%.

$R^1$ - Reject "R" nondetects for 2-butanone because of average RRF < 0.05.

# APPENDIX L

# DATA VALIDATION LETTERS

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-9-1-225

TO: DAVE BRAYAK

DATE: SEPTEMBER 17, 1991

FROM: KAREN M. SMECKER

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2009CS

SAMPLES: 15/SOIL/

| | | | |
|---|---|---|---|
| SOIL-08 | SOIL-08A | SOIL-08B | SOIL-08C |
| SOIL-09 | SOIL-09A | SOIL-09B | SOIL-10 |
| SOIL-10B | SOIL-10C | SOIL-11 | SOIL-11A |
| SOIL-11B | SOIL-12A | SOIL-12B | |

1/WATER/RINSATE #7

Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of fifteen (15) low level soil samples and one (1) aqueous rinsate blank were evaluated using the following parameters:

* • Data completeness
* • Holding times
• Calibrations
* • Laboratory control sample results
• Laboratory and field blanks
• Matrix spike analysis results
• Laboratory duplicates
• Field duplicate precision
* • ICP interferences
* • Graphite furnace results
• ICP serial dilution results
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

Overview

Samples SOIL-08C and SOIL-10C are field duplicates of samples SOIL-08 and SOIL-10, respectively.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-25-91 and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

CRDL Standard analysis Percent Recoveries (%Rs) for antimony and silver were below the 80% lower quality control limit (yet > 50%). Positive results and nondetects for these analytes in all samples are qualified as estimated, (J1) and (UJ1), respectively.

The CRDL Standard analysis %R for cadmium exceeded the 120% upper quality control limit. Positive results for this analyte in all samples are qualified as estimated, (J2).

Zinc and lead were detected as contaminants in the rinsate blank at concentrations > CRDL. Positive results for these analytes < 5X the contaminant concentration are considered unreliable and are qualified as rejected, (R2).

Matrix Spike (MS) %Rs for cyanide and antimony in the soil matrix were below the 75% lower quality control limit (yet > 10%). Positive results and nondetects for these analytes in soil samples are qualified as estimated, (J4) and (UJ2), respectively.

MS %Rs for lead in the soil matrix were both high (> 125% but < 150%) and low (< 75% yet > 10%). Positive soil results for this analyte (not qualified as rejected due to blank contamination) are qualified as estimated, (J3); no nondetects were reported.

Poor laboratory duplicate precision was noted for manganese, copper and lead in the soil matrix. Positive soil results (not qualified as rejected on the basis of blank contamination) and nondetects for these analytes are qualified as estimated, (J5) and (UJ3), respectively; no nondetects were reported for lead and manganese.

Field duplicate imprecision was noted for chromium and lead in the soil matrix. Positive soil results (not qualified as rejected) are qualified as estimated, (J7).

The Method of Standard Additions (MSA) correlation coefficient (r) for lead in sample SOIL-08C was < 0.990. The positive lead result in this sample is considered unreliable and is qualified as rejected, (R1).

ICP serial dilution Percent Differences (%Ds) between undiluted and

diluted sample results for zinc and manganese exceeded the 10% quality control criterion for the soil matrix; initial sample results were > 10X IDL. Positive results > 10X IDL for these analytes in soils are qualified as estimated, (J6).

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Karen M. Smecker
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-9-1-364

TO: DAVE BRAYAK

DATE: SEPTEMBER 20, 1991

FROM: KAREN M. SMECKER

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2852CW

SAMPLES: 6/WATER/

| | | | |
|---|---|---|---|
| PW-1 | PW-2 | PW-3 | PW-3A |
| MW-1 | MW-2 | | |

1/WATER/FIELD BLANK #1

Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of six (6) low-level water samples and one (1) aqueous field blank were evaluated using the following parameters:

* • Data completeness
* • Holding times
  • Calibrations
* • Laboratory control sample results
* • Laboratory and field blanks
  • Matrix spike analysis results
* • Laboratory duplicates
* • Field duplicate precision
* • ICP interferences
* • Graphite furnace results
  • ICP serial dilution results
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

Overview

Sample PW-3A is a field duplicate of PW-3.

The samples were collected by HALLIBURTON NUS Environmental

Corporation on 07-17-91 and 07-18-91 and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

CRDL Standard analysis Percent Recoveries (%Rs) for antimony and silver were below the 80% lower quality control limit (yet > 50%). Only nondetects were reported for these analytes, and these results are qualified as estimated, (UJ1).

The CRDL Standard analysis %R for zinc was high (> 150%). Positive results for this analyte are considered unreliable and are qualified as rejected, (R1).

The Matrix Spike (MS) %R for selenium was below the 75% lower quality control limit (yet > 10%). Positive results and nondetects for this analyte are qualified as estimated, (J2) and (UJ2), respectively.

ICP serial dilution Percent Differences (%Ds) for zinc and sodium exceeded the 10% quality control criterion; initial sample results were > 10X IDL. Positive sodium results > 10X IDL are qualified as estimated, (J1). No further action was taken for zinc because all positive results for this analyte are qualified as rejected due to extremely high CRDL Standard analysis recovery.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA

Guidelines and the Quality Assurrance Project Plan (QAPP)."

Karen M. Smecker
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality
Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-1-9-266

TO: DAVE BRAYACK

DATE: SEPTEMBER 24, 1991

FROM: KAREN SABOLOSKY

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA/PEST/PCB
CALVERTON, NY, NWIRP
NET CONTROL 403B

SAMPLES:

Soils:

| | | | | |
|---|---|---|---|---|
| 08 | 09 | 10A | 11A | 12B |
| 08A | 09A | 10B | 11B | |
| 08B | 09B | 10C | 12 | |
| 08C | 10 | 11 | 12A | |

Waters:

Rinsate #7 Trip blank #7

NET Laboratories, Incorporated analyzed 17 soil samples (including two field duplicate pairs), 1 rinsate blank, and 1 trip blank for Target Compound List (TCL) volatile organic, semivolatile, and pesticide/PCB compounds.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program - (NEESA)". The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated according to the following parameters:

- Data completeness
- Holding times
- GC/MS tuning and mass calibration
- * Initial and continuing calibrations
- * Laboratory and field blank analyses
- * Surrogate spike recoveries
- * Matrix spike/matrix spike duplicate results
- Field duplicate precision
- Internal standards performance
- Detection limits
- Sample quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are

discussed below and the attached Table I summarizes the validation qualifications.

Volatile Fraction

One initial calibration Percent Relative Standard Deviation (%RSD) for bromomethane exceeded the 50% quality control limit. No positive results were reported for this compound in affected samples; nondetects are qualified as estimated, "UJ".

Initial calibration %RSDs for acetone, 1,2-dichloroethene, and 2-butanone exceeded the 30% quality control limit. No action was taken for acetone as all affected results are either nondetects or are qualified for blank contamination. No qualifications were made for the remaining compounds since no positive results were reported for these compounds in affected samples.

Continuing calibration Percent Differences (%Ds) for bromomethane, acetone and chloromethane exceeded the 50% quality control limit. Nondetects for these compounds are qualified as estimated, "UJ" in affected samples.

Continuing calibration %Ds for bromoform, 4-methyl-2-pentanone, acetone, 2-butanone, 2-hexanone and vinyl acetate exceeded the 25% quality control limit. No qualifications were made since no positive results (not qualified for blank contamination), were reported for these compounds in affected samples.

The maximum concentrations of contaminants detected in trip, rinsate and laboratory method blank analyses are summarized below:

| Common Contaminant | Maximum Concentration (ug/L) |
|---|---|
| acetone | 30 |
| 2-butanone | 15 |

Action levels of ten times the maximum amount of these common contaminants (300 ug/kg acetone; 150 ug/kg 2-butanone), were used to evaluate the data. Dilution factors were considered prior to application of all action levels. Sample contaminant concentrations reported at levels below the action level are followed by the estimated nondetect qualifier, "UJ".

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) Relative Percent Differences (RPDs) for 1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene exceeded quality control

limits. No action was taken since all recoveries were acceptable and no positive results were reported for these compounds in the unspiked sample (SOIL08).

Sample SOIL09 was originally analyzed outside of the 12-hour calibration time. The sample was subsequently reanalyzed (SOIL09RE) within proper calibration time. Since all results (except for acetone) were within agreement, the initial data results were used for validation.

Positive results for several compounds are qualified as estimated, "J", because of detection at a concentration below the Contract Required Quantitation Limit (CRQL).

Semivolatile Fraction

Some continuing calibration %Ds for pyrene, 3,3'-dichlorobenzidine and 4-nitroaniline exceeded the 50% quality control limit. Positive results for these compounds in affected samples are qualified as estimated, "J", and nondetects as "UJ."

Some continuing calibration %Ds for pyrene exceeded 25%. Positive results for this compound in affected samples are qualified as estimated, "J". Continuing calibration %Ds for several other compounds exceeded 25%, but no actions are required since no positive results were reported for these compounds in affected samples.

The maximum concentrations of contaminants detected in trip, rinsate and laboratory method blank analyses are summarized below:

| Common Contaminant | Maximum Concentration (ug/L) |
|---|---|
| bis(2-ethylhexyl)phthalate | 210 |
| di-n-butylphthalate | 2100 |
| butylbenzylphthalate | 890 |

Action levels of ten times the maximum amount of these common contaminants were used to evaluate the data. Dilution factors were considered prior to application of all action levels. Sample contaminant concentrations reported at levels below the action level are followed by the estimated nondetect qualifier, "UJ".

The MS/MSD %RPD for pyrene exceeded the quality control limit. No further action was necessary since this compound in the unspiked sample (SOIL10) was qualified as estimated, "J" based on detection

less than the CRQL.

Several Tentatively Identified Compounds (TICs) were found in laboratory method and field quality control blanks analyzed with this sample set. Environmental sample results for these TICs reported at concentrations less than five times the maximum amount found in the blanks are crossed-out on the appended Form I-TIC reports.

Pesticide/PCB

The continuing calibration %D exceeded the quantitation column 15% quality control limit for 4,4'-DDT and methoxychlor. No action was necessary because data from this calibration was not used to quantify the affected compounds.

Positive results for endrin in samples SOIL9A and SOIL9B are qualified as estimated, "J" because of detection at levels less than the CRQL.

Please do not hesitate to contact me if you have any questions regarding this review.

CALVERTON, NY, NWIRP
NET CONTROL #91.0546

TABLE I - RECOMMENDATION SUMMARY

| Sample No. | Volatile | Semivolatile | Pesticide/PCB |
|---|---|---|---|
| 08 | $J^{1}$ | $A^{2}$, $J^{3,6,13}$ | |
| 08A | $J^{1,7}$ | $A^{2}$, $J^{3}$ | |
| 08B | $A^{1}$, $J^{1,13}$ | $A^{2}$, $J^{3}$ | |
| 08C | $A^{1}$, $J^{1,}$ | $A^{2}$, $J^{3,6,13}$ | |
| 09 | $A^{1,}$ $J^{1,5,13}$ | $A^{2}$, $J^{3,4,13}$ | |
| 09A | | $A^{2}$, $J^{3,6,13}$ | |
| 09B | $J^{13}$ | $A^{2}$, $J^{2,3,4,13}$ | |
| 10 | $A^{1}$, $J^{1,5}$ | $A^{2}$, $J^{3,6,13}$ | |
| 10A | $A^{1}$, $J^{1,5,13}$ | | |
| 10B | | $A^{2}$, $J^{3,6,13}$ | |
| 10C | $A^{1}$, $J^{1,13}$ | $A^{2}$, $J^{6,13}$ | |
| 11 | $J^{1,7,13}$ | $A^{2}$ | |
| 11A | $A^{1}$, $J^{1,7}$ | $A^{2}$ | |
| 11B | $A^{1}$, $J^{1,5}$ | $A^{2}$ | |
| 12 | $A^{1}$, $J^{1,5}$ | | |
| 12A | $J^{1,7}$ | $A^{2}$ | |
| 12B | $A^{1}$, $J^{1}$ | | |
| Trip blank #7 | $J^{9,11}$ | | |
| Rinsate #7 | $J^{9,11}$ | | |

$A^{1}$ - Change positive result for acetone and 2-butanone (where appropriate) to a revised detection limits because of blank contamination.

$A^{2}$ - Change positive result for butylbenzyl phthalate, bis(2-ethyhexyl)phthalate, and di-n-butylphthalate (where appropriate) to a revised detection limit because of blank contamination.

$J^{1}$ - Estimate "UJ" nondetect for bromomethane because continuing calibration %D is greater than 50%.

$J^{2}$ - Estimate "J" positive result for pyrene because continuing calibration %D is greater than 50%.

$J^{3}$ - Estimate "UJ" nondetect for 3,3'-dichlorobenzidine because continuing calibration %D is greater than 50%.

$J^4$ - Estimate "UJ" nondetect for 4-nitroaniline because continuing calibration %D is greater than 50%.

$J^5$ - Estimate "UJ" nondetects for bromomethane because continuing calibration %D exceeded 50%.

$J^6$ - Estimate "J" positive results for pyrene because continuing calibration %D is greater than 25%.

$J^7$ Estimate "UJ" nondetect for acetone because continuing calibration %D exceeded 50%.

$J^8$ - Estimate "J" positive results reported at concentrations < CRQL.

$J^9$ - Estimate "J" positive result for acetone because continuing calibration %D was greater than 30%.

$J^{10}$ - Estimate "J" positive results for acetone, toluene and xylene because surrogate %R is greater than the quality control limit.

$J^{11}$ - Estimate "UJ" nondetect for chromethane because continuing calibration %D was greater than 50%.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-10-5-72 (RE-ISSUE)

TO: DAVE BRAYAK

DATE: OCTOBER 5, 1991

FROM: KAREN SABOLOSKY

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - BTEX/PAH
CALVERTON, NY
NET CONTROL # 91.0580

SAMPLES:

Soils:

Soil-

| | | | |
|---|---|---|---|
| 20 | 20B | 21 | 21B |
| 20A | 20C | 21A | |

NET Laboratories, Incorporated analyzed 7 soil samples (including one field duplicate pair) for benzene, toluene, ethylbenzene, and xylenes (BTEX) and Polynuclear Aromatic Hydrocarbons (PAHs). Although associated field quality control blanks were taken, none were analyzed under this particular analytical grouping.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program" -NEESA. The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated according to the following parameters:

- Data completeness
- Holding times
- GC/MS tuning and performance
- Initial and continuing calibration
- Laboratory and field blank analyses
- * Surrogate spike recoveries
- * Matrix spike and matrix spike duplicate results
- Field duplicate precision
- Detection limits
- Sample quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are discussed below and the attached Table I summarizes the validation qualifications.

BTEX Fraction

The laboratory did not provide statistically derived surrogate quality control limits. When contacted, the laboratory explained that this quality control information is not included as part of the analytical data package, but is presented in the monthly progress reports submitted to the client Project Manager. Because these quality control limits were not available at the time, the data reviewer proceeded by using professional judgement to evaluate the associated data.

The laboratory used three surrogates (1) 2-fluorobiphenyl and (2) para-terphenyl, which the laboratory uses as petroleum hydrocarbon fingerprint surrogate, and (3) bromofluorobenzene which the laboratory uses as a volatile surrogate. All recoveries for the volatile surrogate were greater than 80%. It is in the professional opinion of the reviewer that these volatile surrogate recoveries are acceptable for soil analyses. Review of subsequent information as produced by the laboratory shows all surrogate recoveries to be within the quality control limits.

PAH Fraction

As explained previously, no quality control acceptance ranges for surrogates were available from the laboratory at the original time of evaluation. In the professional opinion of the data reviewer, recoveries for both semivolatile surrogates were typical of soil analyses, therefore the data were accepted without qualification.

Likewise, no statistical recovery (quality control) limits for Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were available from the laboratory at the time of the original data evaluation. Professional judgement was used to evaluate the data. All MS/MSD recoveries were very typical of analyses for PAHs in soil. The data was accepted without qualification. Further review based on subsequent information as pprvided by the laboratory showed that all surrogate and MS/MSD recoveries were within acceptable limits.

**CALVERTON, NY**
**NET CONTROL # 91.0580**

TABLE I - RECOMMENDATION SUMMARY

| Sample No. | BTEX | PAHs |
|---|---|---|
| SOIL20 | | |
| SOIL20A | | |
| SOIL20B | | |
| SOIL20C | | |
| SOIL21 | | |
| SOIL21A | | |
| SOIL21B | | |

If the field is left blank, the qualifier is A - Accept data without qualification.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-10-1-78

TO: DAVE BRAYACK

DATE: OCTOBER 7, 1991

FROM: KENT WEAVER

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA/PESTICIDES & PCBs
CALVERTON/NAVY CLEAN
CASE NO. FD402B

SAMPLES:

Waters:

| | | |
|---|---|---|
| PW-3 | MW-8 | MW-10 |
| PW-3A | MW-9 | MW-1 |
| PW-1 | MW-12 | MW-2 |
| PW-2 | MW-11 | MW-7 |

Waters:

| | |
|---|---|
| FB-1 | TB-3 |
| Rinsate-3 | TB-4 |

NET CAMBRIDGE Laboratories analyzed 12 water samples (including one field duplicate pair), 1 field blank, 1 rinsate blank, and 2 trip blanks for Target Compound List (TCL) volatile and semivolatile organic compounds, pesticides and PCBs.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" and the "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program - NEESA". The analyses were conducted under NEESA Level D QA/QC criteria and were evaluated according to the following parameters:

- Data Completeness
- Holding times
- GC/MS tuning and mass calibration
- * Initial and continuing calibrations
- * Laboratory and field blanks
- Internal standards
- * Surrogate spike recoveries
- * Matrix spike/matrix spike duplicate results
- Detection limits
- Sample quantitation

The symbol (*) indicates that quality control criteria were not met for this parameter. Problems affecting data usability are

discussed below and the attached Table 1 summarizes the validation qualifications.

Volatile Fraction

The initial calibration average Relative Response Factor (RRF) for 2-butanone was below the 0.05 quality control limit. Nondetects for this compound in affected samples have been rejected, qualified "R".

Continuing calibration Percent Differences (%Ds) for 2-hexanone, 2-butanone, and acetone exceeded 50%. No positive results were reported for these compounds in the affected samples; affected nondetects are qualified as estimated "UJ".

Some continuing calibration Percent Differences (%Ds) for acetone, chloroethane, methylene chloride, carbon disulfide, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, and bromoform exceeded the 25% quality control criterion. The positive result for acetone in sample Rinsate-3 is qualified as estimated, "J". No action was taken for the other compounds because no positive results were reported for these compounds in any affected sample.

A maximum concentration of 26 ug/L acetone was detected in a rinsate blank analyzed with this sample set. An action level of 260 ug/L for this common contaminant was used to evaluate the data. Dilution factors were considered prior to the application of the action level. Samples with positive results for acetone reported at concentrations greater than the Contract Required Quantitation Limit (CRQL) but less than the action level, have been qualified as an estimated nondetect, "UJ".

Methylene chloride, bromoform, 1,1,2-trichloroethane, and 1,1,2,2-tetrachloroethane were also detected in laboratory method blanks and/or trip blanks analyzed with this sample set. No action was taken because no positive results were reported for these compounds in any sample.

Sample MW-11 should have been diluted and reanalyzed by the laboratory (but was not), because it contained a concentration of total xylenes at a level which exceeded the instrument's linear calibration range. The result reported for total xylenes in the

undiluted sample is qualified as estimated, "J".

Sample MW-1 was diluted due to sample matrix interferences. However, because most of the positive results reported for the initial analysis occurred at concentrations below the dilution detection limits, the initial results for this sample were used in validation. These initial analysis results are affected by high Percent Recoveries (%Rs) for two surrogates. All positive results for sample MW-1 have been qualified as estimated "J".

Sample MW-12 was reanalyzed because of low surrogate recovery. The reanalysis results were generated within the holding time allowance and all surrogate recoveries for the reanalysis were acceptable. Hence, the reanalysis results for this sample were used in validation without any qualification based on these occurrences.

Sample MW-9 was diluted and reanalyzed because of the presence of several target compounds at concentrations which exceeded the instrument's linear calibration range. The dilution results for these affected compounds along with the initial analysis results for the remaining compounds were used in validation.

Some positive results for some compounds are reported at concentrations less than the CRQL and are considered to be approximate; these results are qualified as estimated, "J".

Semivolatile Fraction

Continuing calibration %Ds for 3,3'-dichlorobenzidiene and pyrene exceeded the 50% quality control limit. Nondetects for these compounds in affected samples are qualified as estimated, "UJ".

Some continuing calibration %Ds for benzoic acid, 4-nitroaniline, and pyrene exceeded the 25% quality control limit. Positive results for benzoic acid in affected samples are qualified as estimated "J". No qualifications were made for the other compounds because no positive results were reported for these compounds in affected samples.

A maximum concentration of 9 ug/L phenol was detected in rinsate and field blanks analyzed with this sample set. No action was taken because no positive results for this compound were reported in any sample.

Several surrogate spike %Rs were outside QC limits. No qualifications were made because only one surrogate for each fraction was exceeded in the affected samples.

The Matrix Spike (MS) Percent Recovery (%R) for 4-nitrophenol exceeded the upper quality control limit; and the Matrix Spike Duplicate (MSD) %Rs for phenol, 4-chloro-3-methylphenol, 2,4-dinitrotoluene, and pyrene were also outside of QC limits. No actions were taken because no positive results were reported for these compounds in the unspiked sample.

It was necessary to analyze sample MW-11 at a dilution because of sample matrix interferences, resulting in no surrogate recoveries being reported; no action is required. No undiluted analysis was performed for this sample.

Positive results for some compounds are qualified as estimated, "J", because they are below the CRQL.

Tentatively Identified Compounds (TICs) were detected in rinsate and laboratory method blanks analyzed with this sample set. Sample results for these TICs detected at levels less than five times the maximum amount of TIC detected in the blanks have been deleted (crossed out) on the Form I BNA-TIC reports.

Pesticide PCB Fraction

Several quantitation column continuing calibration %Ds for heptachlor epoxide, 4,4'-DDT, beta-BHC, 4,4'-DDD, endrine ketone, endrin, and endosulfan sulfate exceeded the 15% quality control criterion. No action was taken because no positive results were reported for the affected compounds, and the exceedances were not gross enough to compromise the detection limits.

Please note that samples MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12 were not analyzed for the pesticide/PCB fraction as per the associated Chain-of-Custody reports.

No other problems were noted. Please do not hesitate to contact me if you have any questions regarding this review.

**CALVERTON/NAVY CLEAN**
**CASE NO. FD402B**

TABLE 1 - RECOMMENDATION SUMMARY

| Sample No. | Volatile | Semivolatile | Pesticide/PCB |
|---|---|---|---|
| PW-3 | R[1], J[1,2] | J[2,3] | |
| PW-3A | R[1], J[1] | J[3] | |
| PW-1 | R[1], J[1] | J[2,3] | |
| PW-2 | R[1], J[1,2] | J[2,3] | |
| MW-8 | J[4,9] | J[2,5] | |
| MW-9 | J[2] | J[2,5,6] | |
| MW-12 | | J[2,5] | |
| MW-11 | J[8] | J[2,3] | |
| MW-10 | J[2] | J[2,3] | |
| MW-1 | J[7] | J[2,3] | |
| MW-2 | A[1], J[1,2] | J[3] | |
| MW-7 | A[1], J[9] | J[2,5,6] | |
| TB-3 | J[2] | | |
| TB-4 | J[1,2] | | |
| Rinsate-3 | J[4] | J[5] | |
| FB-1 | | J[5] | |

A[1] - Estimate "UJ" positive results for acetone because of blank contamination.

J[1] - Estimate "UJ" nondetect for 2-hexanone because of continuing calibration %D > 50%.

J[2] - Estimate "J" positive results for compounds detected at concentrations less than the CRQL.

J[3] - Estimate "UJ" nondetects for 3,3-dichlorobenzidiene because of continuing calibration %D > 50.

$J^4$ - Estimate "J" positive result in sample Rinsate-3, and estimate "UJ" nondetects for acetone in remaining affected samples, because continuing calibration %D was > 50%.

$J^5$ - Estimate "UJ" nondetects for pyrene because of continuing calibration %D > 50%.

$J^6$ - Estimate "J" positive results for benzoic acid because continuing calibration %D > 25%.

$J^7$ - Estimate "J" positive results because surrogate %R was outside QC limits.

$J^8$ - Estimate "J" positive result for total xylenes because concentration exceeds instrument's linear calibration range.

$J^9$ - Estimate "UJ" nondetects for 2-butanone because of continuing calibration %D > 50%.

$R^1$ - Reject "R" nondetects for 2-butanone because of average RRF < 0.05.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-11-1-20

TO: DAVE BRAYAK

DATE: OCTOBER 25, 1991

FROM: KAREN M. SMECKER

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - LEAD
CALVERTON
SDG 2017CS

SAMPLES: 12/SOIL/

| | | | |
|---|---|---|---|
| SOIL-15 | SOIL-15A | SOIL-15C | SOIL-19 |
| SOIL-19A | SOIL-19B | SOIL-17 | SOIL-17A |
| SOIL-17C | SOIL-18 | SOIL-18A | SED-03 |

Introduction

Inorganic data from the lead analysis of twelve (12) low level soil samples were evaluated using the following parameters:

* • Data completeness
* • Holding times
* • Calibrations
* • Laboratory control sample results
  • Laboratory and field blanks
  • Matrix spike analysis results
* • Laboratory duplicates
* • Field duplicate precision
* • Graphite furnace results
* • Detection limits
* • Analyte quantitation

The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

Overview

Samples SOIL-15C and SOIL-17C are field duplicates of samples SOIL-15 and SOIL-17, respectively.

The field blank associated with these samples was analyzed in another sample delivery group; the data for this blank was used to evaluate the samples in this set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-30-91, and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

Lead was detected as a contaminant in the field blank at a level > Contract Required Detection Limit (CRDL). Positive results for this analyte < 5X the amount found in the field blank are considered unreliable and are qualified as rejected, (R1).

The Matrix Spike (MS) Percent Recovery (%R) for lead was extremely low (< 10%). Only positive results were reported for this analyte; these results are considered unreliable and are qualified as rejected, (R2).

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Karen M. Smecker
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-2-1-180

TO: DAVE BRAYACK

DATE: JANUARY 14, 1992

FROM: RICKY C. DEPAUL

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - LEAD ANALYSES
CALVERTON
SDG 2850CW

SAMPLES: 16/WATER

| | | | | |
|---|---|---|---|---|
| 1MW14 | 2MW13 | 3MW13 | MW15 | MW16 |
| MW19 | MW18 | MW17 | MW8 | MW7 |
| MW9 | MW12 | MW11 | MW10 | RINSATE #7 |
| RINSATE #3 | | | | |

## Introduction

Inorganic data from the lead analysis of sixteen (16) low level water samples (including two rinsate blanks and one field duplicate pair), were evaluated using the following parameters:

* • Data completeness
* • Holding times
* • Calibrations
* • Laboratory control sample results
* • Laboratory blanks
* • Matrix spike analysis results
* • Laboratory duplicates
* • ICP interferences
* • Detection limits
* • Analyte quantitation

The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

## Overview

Samples 2MW13 and 3MW13 are field duplicate pair samples.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07/15/91, 07/17/91 and 07/18/91 and analyzed by

NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

No problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Ricky C. DePaul
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-2-1-172

**TO:** DAVE BRAYACK **DATE:** JANUARY 14, 1992

**FROM:** RICKY C. DEPAUL **COPIES:** D. A. SCHEIB

**SUBJECT:** INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2926CW

**SAMPLES:** 3/WATER

MW3 MW4 MW6

## Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of three (3) low level water samples were evaluated using the following parameters:

* • Data completeness
• Holding times
• Calibrations
* • Laboratory control sample results
* • Laboratory blanks
• Matrix spike analysis results
* • Laboratory duplicates
* • ICP interferences
* • Detection limits
• ICP Serial Dilution Results
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

## Overview

No field quality control blanks or field duplicate pairs were analyzed under this analytical data set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-24-91 and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory

Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

The 28-day holding time for the analysis of mercury in sample MW-6 was exceeded by two days. A nondetect was reported for this analyte, and it is qualified as rejected, (R1).

The CRDL Standard Analysis Percent Recovery (%R) for antimony was below the 80% quality control limit. The nondetect is qualified as estimated, (UJ2).

The MS %Rs for antimony and arsenic were less than the 75% lower quality control limit, yet > 30%. The positive arsenic result and the nondetect for antimony are qualified as estimated (J1) and (UJ1), respectively.

ICP serial dilution Percent Differences (RPDs) for cobalt, potassium and zinc exceeded 10% where initial sample concentrations were > 10X IDLs. Only positive sample results were reported for these analytes, and these results are qualified as estimated, (J2).

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Ricky C. DePaul
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

**HALLIBURTON NUS**
*Environmental Corporation*

# INTERNAL CORRESPONDENCE

C-49-01-2-227

TO: DAVE BRAYACK

DATE: JANUARY 15, 1992

FROM: KENT WEAVER

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA/PESTICIDES & PCBs
CALVERTON/NAVY CLEAN
CASE NO. FD413

SAMPLES: 11/SOIL

| | | |
|---|---|---|
| SOIL03 | SOIL03C | SOIL03A |
| SOIL03B | SOIL02 | SOIL02A |
| SOIL02B | SOIL04 | SOIL04C |
| SOIL04A | SOIL04B | |
| RINSATE8 | TB8 (Trip Blank) | FB2 (Field Blank) |

## Introduction

Organic data from the Target Compound List (TCL) analysis of eleven (11) low level soil samples and three (3) associated field quality control samples were evaluated using the following parameters:

* • Data Completeness
* • Holding times
* • GC/MS tuning and mass calibration
• Initial and continuing calibrations
• Laboratory and field blanks
• Internal standards
• Surrogate spike recoveries
• Matrix spike/matrix spike duplicate results
* • Field duplicate precision
* • Detection limits
* • Sample quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix D (Regional Worksheets).** Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

## Overview

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07/26/91, and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP)

Statement of Work (SOW) 1/87 analytical and reporting protocols.

Summary

Volatile Fraction

The initial calibration Percent Relative Standard Deviation (%RSD) for bromomethane exceeded 90. Nondetects for this compound in affected samples have been rejected, "R".

Initial calibration %RSDs for acetone, bromomethane, and 2-butanone exceeded the 30% quality control criterion. No action was taken for acetone because positive results in affected samples are qualified based on blank contamination. No actions were taken for the other compounds because no positive results were reported for these compounds in affected samples.

Continuing calibration Percent Differences (%Ds) for 2-hexanone, acetone, and bromomethane exceeded 50%. No action was taken for bromomethane because nondetects are rejected due to initial calibration %RSD. No positive results were reported for the other compounds; nondetects are qualified as estimated, "UJ", in affected samples.

Some continuing calibration Percent Differences (%Ds) for chloromethane, bromoform, bromomethane, 2-butanone, chloroethane, and acetone exceeded the 25% quality control criterion. The positive results for acetone are qualified based on blank contamination. No actions were taken for the other compounds because no positive results were reported for these compounds in any affected sample.

Maximum concentrations of 48 ug/L acetone and 1 ug/kg methylene chloride (common contaminants), and 1 ug/kg chloroform were detected in rinsate and/or method blanks analyzed with this sample set. Action levels of ten times the amount of common contaminants and five times the amount of the other contaminant were used to evaluate the data. Dilution and moisture correction factors were considered prior to the application of the action level. Samples with positive results less than the Contract Required Quantitation Limit (CRQL) have been deleted and replaced with the CRQL followed by the undetected qualifier "U". Samples with positive results reported at concentrations greater than the CRQL but less than the action level, have been qualified as an estimated, "UJ".

2-butanone and 2-hexanone were also detected in laboratory method blanks analyzed with this sample set. No action was taken because

no positive results were reported for these compounds in any sample.

Samples SOIL02A, SOIL03, SOIL03C, and SOIL04 have internal standard areas outside of QC limits. Positive results and nondetects for compounds quantified using the failed internal standard have been qualified as estimated, "J, UJ" , respectively.

Samples SOIL02A, SOIL03, SOIL03C, SOIL04, and SOIL04C have surrogate spike Percent Recoveries (%Rs) outside of QC limits. Positive results and nondetects for all compounds in these samples are qualified as estimated, "J, UJ" , respectively.

Samples SOIL02A, SOIL3C, and SOIL04C have been reanalyzed due to surrogate spike %Rs outside QC limits and/or internal standard failure. The reanalysis data showed no improvement in data quality, therefore the original data is used in validation.

Matrix Spike/Matrix Spike Duplicate %Rs for benzene and toluene exceeded the upper quality control limit. No action were taken because no positive results were reported for these compounds in the unspiked sample.

Some positive results for some compounds are reported at concentrations less than the CRQL and are considered to be approximate; these results are qualified as estimated, "J".

Semivolatile Fraction

The initial calibration %RSD for 3,3'-dichlorobenzidine exceeded the 30% quality control criterion. No action was taken because no positive results were reported for this compound in affected samples.

Continuing calibration %Ds for 3,3'-dichlorobenzidine, 3-nitroaniline, 4-nitroaniline, benzoic acid, and 2,4-dinitrophenol exceeded 50%. Nondetects for these compounds in affected samples are qualified as estimated, "UJ". No positive results were reported for these compounds.

Some continuing calibration %Ds for benzoic acid, 4-nitroaniline, 4-nitrophenol, 4-chloroaniline, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, bis(2-chloroisopropyl)ether, 3,3'-dichlorobenzidine, and pyrene exceeded the 25% quality control limit. Positive results for pyrene in affected samples are qualified as estimated "J". No qualifications were made for the other compounds because

no positive results were reported for these compounds in affected samples.

Maximum concentrations of 2100 ug/kg di-n-butylphthalate and 210 ug/kg bis(2-ethylhexyl)phthalate were detected in method blanks analyzed with this sample set. Action levels of ten times these common contaminants were used to evaluate the data. Dilution and moisture correction factors were considered prior to the application of the action level. Samples with positive results for these compounds less than the Contract Required Quantitation Limit (CRQL) have been deleted and replaced with the CRQL followed by the undetected qualifier "U". Samples with positive results for acetone reported at concentrations greater than the CRQL but less than the action level, have been qualified "U".

Phenol and benzoic acid were also detected in a rinsate blank associated with this sample set. No qualifications were made because no positive results were reported for these compounds in any sample.

Sample SOIL02A has surrogate spike %Rs diluted out thus no recoveries were noted. No action is necessary.

The positive result and nondetect for butylbenzylphthalate in the field duplicate pair have been qualified as estimated, "J, UJ", respectively, due to poor field duplicate precision.

Positive results for some compounds are qualified as estimated, "J", because they are below the CRQL.

Pesticides & PCBs

No problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation", as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurance Project Plan (QAPP).

Kent E. Weaver
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
2. Appendix B - Results as Reported by the Laboratory.
3. Appendix C - TICs.
4. Appendix D - Regional Worksheets.
5. Appendix E - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-2-1-126

TO: DAVE BRAYACK

DATE: JANUARY 13, 1992

FROM: DWAYNE S. MOCK

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - LEAD ANALYSES
CALVERTON
SDG 2018CS

SAMPLES: 9/SOIL/SOIL-

| | | | | |
|---|---|---|---|---|
| 18B | 18C | 13 | 13A | 14 |
| 14A | 16 | 16A | 16C | |

2/SOIL/SED-

04 05

## Introduction

Inorganic data from the lead analysis of eleven (11) low level solid matrix samples, were evaluated using the following parameters:

* • Data completeness
* • Holding times
* • Calibrations
* • Laboratory control sample results
* • Laboratory blanks
  • Matrix spike analysis results
* • Laboratory duplicates
* • ICP interferences
* • Furnace atomic absorption results
* • Field duplicate precision
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

## Overview

No field quality control blanks were analyzed under this analytical data set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-30-91, and analyzed by NET-Cambridge Division

Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

The matrix spike Percent Recovery (%R) for lead was below the lower quality control criteria. Positive results for lead in all samples were qualified as estimated, "J".

The Post Digestion Spike (PDS) Percent Recoveries (%Rs) for several samples were high. Postive results were qualified as estimated, "J". The Method of Standard Addition (MSA) was used to quantitate the analytical results of some samples. No further actions were taken when all criteria was met by MSA reanalysis.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". **The text of this report has been formulated to address only those problem areas affecting data quality.**

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Dwayne S. Mock
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-01-2-226

TO: DAVE BRAYACK

DATE: January 14, 1992

FROM: KENT WEAVER

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA
CALVERTON/NAVY CLEAN
CASE NO. FD402A

SAMPLES: 8/WATER

| | | |
|---|---|---|
| 001MW14 | 002MW13 | 003MW13A |
| MW15 | MW16 | MW17 |
| MW18 | MW19 | |
| 007RINSATE | 006TB | TB2 |

## Introduction

Organic data from the Target Compound List (TCL) analysis of eight (8) low level water samples were evaluated using the following parameters:

* • Data Completeness
* • Holding times
* • GC/MS tuning and mass calibration
  • Initial and continuing calibrations
  • Laboratory and field blanks
* • Internal standards
  • Surrogate spike recoveries
  • Matrix spike/matrix spike duplicate results
* • Detection limits
* • Sample quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix D (Regional Worksheets).** Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

## Overview

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07/15/91, and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were

conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 1/87 analytical and reporting protocols.

Summary

Volatile Fraction

The initial calibration average Relative Response Factor (RRF) for 2-butanone was below the 0.05 quality control limit. Nondetects for this compound in affected samples have been rejected, qualified "R".

An initial calibration Percent Relative Standard Deviation (%RSD) for acetone exceeded the 30% quality control criterion. No action was taken because positive results in affected samples are qualified based on blank contamination.

Continuing calibration Percent Differences (%Ds) for 2-hexanone, 2-butanone, and acetone exceeded 50%. No positive results were reported for these compounds in the affected samples; affected nondetects are qualified as estimated, "UJ".

Some continuing calibration Percent Differences (%Ds) for acetone, methylene chloride, and 2-butanone exceeded the 25% quality control criterion. The positive results for acetone are qualified based on blank contamination. No actions were taken for the other compounds because no positive results were reported for these compounds in any affected sample.

A maximum concentration of 38 ug/L acetone was detected in a rinsate blank analyzed with this sample set. An action level of 380 ug/L for this common contaminant was used to evaluate the data. Dilution factors were considered prior to the application of the action level. Samples with positive results less than the Contract Required Quantitation Limit (CRQL) have been deleted and replaced with the CRQL followed by the undetected qualifier "U". Samples with positive results for acetone reported at concentrations greater than the CRQL but less than the action level, have been qualified as undetected, "U".

Methylene chloride, chloromethane, bromoform, 1,1,2-trichloroethane, and 1,1,2,2-tetrachloroethane were also detected in laboratory method blanks and/or trip blanks analyzed with this sample set. No action was taken because no positive results were reported for these compounds in any sample.

Some positive results for some compounds are reported at concentrations less than the CRQL and are considered to be approximate; these results are qualified as estimated, "J".

Semivolatile Fraction

Continuing calibration %Ds for 3,3'-dichlorobenzidine, 3-nitroaniline, and 4-nitroaniline exceeded 50%. Nondetects for these compounds in affected samples are qualified as estimated, "UJ". No positive results were reported for these compounds.

Some continuing calibration %Ds for benzoic acid, 4-nitroaniline, 4-nitrophenol, and pyrene exceeded the 25% quality control limit. Positive results for pyrene in affected samples are qualified as estimated "J". No qualifications were made for the other compounds because no positive results were reported for these compounds in affected samples.

Maximum concentrations of 38 ug/L di-n-butylphthalate and 3 ug/l bis(2-ethylhexyl)phthalate were detected in method blanks analyzed with this sample set. Action levels of ten times these common contaminants were used to evaluate the data. Dilution factors were considered prior to the application of the action level. Samples with positive results for these compounds less than the Contract Required Quantitation Limit (CRQL) have been deleted and replaced with the CRQL followed by the undetected qualifier "U". Samples with positive results for acetone reported at concentrations greater than the CRQL but less than the action level, have been qualified as undetected, "U".

Phenol was also detected in a rinsate blank associated with this sample set. No qualifications were made because no positive results were reported for phenol in any sample.

Sample MW17 has acid fraction surrogate spike Percent Recoveries (%Rs) less than 10%. The sample was subsequently reanalyzed. The reanalysis data also showed acid fraction surrogate %Rs less than 10%; therefore, the original analysis data was used in validation. Nondetects for acid fraction compounds in this sample are considered unreliable and qualified as rejected, "R". No positive results were reported for this sample.

The Matrix Spike/Matrix Spike Duplicate %Rs for 4-nitrophenol exceeded the upper quality control limit. No action was taken because no positive result was reported for this compound in the unspiked sample.

Positive results for some compounds are qualified as estimated, "J", because they are below the CRQL.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation", as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurance Project Plan (QAPP)."

Kent E. Weaver
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Technical Reviewer

cc: D. Scheib

Attachments:

1. Appendix A - Qualified Analytical Results.
2. Appendix B - Results as Reported by the Laboratory.
3. Appendix C - TICs.
4. Appendix D - Regional Worksheets.
5. Appendix E - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-2-1-244

TO: DAVE BRAYACK DATE: JANUARY 16, 1992

FROM: NORMAN J. STRAUB COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2907CW

SAMPLES: 4/AQUEOUS/

MW04-FP MW05-FP MW11-FP MW16-FP

## Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of four (4) low level aqueous samples were evaluated using the following parameters:

* • Data completeness
* • Holding times
* • Calibrations
  • Laboratory control sample results
  • Laboratory blanks
  • Matrix spike analysis results
  • Laboratory duplicates
* • ICP interferences
* • Graphite furnace analysis results
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

## Overview

No field duplicate pairs or field quality control blanks were analyzed under this analytical data set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-16-91, 07-18-91, and 07-23-91, and analyzed by NET-Cambridge Division Laboratories under Naval Energy and Environmental Support Activity (NEESA) Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

Cyanide analyses were not performed as required by the chain-of-custody forms that accompanied the samples. Also, mercury analyses performed on samples MW11-FP and MW16-FP were not requested by the sampling team.

SUMMARY

The pH reported for samples MW04-FP and MW05-FP were greater than 2. Positive results and nondetects reported for all analytes are qualified as estimated, (J3) and (UJ2), respectively, in the affected samples.

Zinc was detected as a contaminant in the analysis of a laboratory preparation blank analyzed with this sample set in a maximum concentration of 35 µg/L. Positive sample results reported for this analyte at concentrations less than five times this maximum are qualified as undetected, (R2), because of blank contamination.

The Matrix Spike (MS) Percent Recovery (%R) for mercury was less than the 75% lower quality control limit. Nondetects reported for this analyte are qualified as estimated, (UJ1), in all samples.

The laboratory duplicate Relative Percent Difference (RPD) for lead exceeded the 50% quality control limit. Positive results for lead are qualifed as estimated, (J2), in all samples.

The %R reported for selenium in the Labortory Control Sample (LCS) analysis was reported as zero. All nondetects reported for this analyte are qualified as rejected, (R1).

ICP Serial Dilution was not performed for ICP analytes reported at concentrations greater than ten times the Instrument Detection Limit (IDL). Consequently, positive results reported for iron and calcium in samples MW04-FP and MW05-FP; and aluminum in sample MW04-FP are qualifed as estimated, (J1), because of detection at concentrations greater than ten times respective IDLs.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Norman J. Straub
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

**HALLIBURTON NUS**
*Environmental Corporation*

# INTERNAL CORRESPONDENCE

C-49-2-1-243

TO: DAVE BRAYACK

DATE: JANUARY 16, 1992

FROM: NORMAN J. STRAUB

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2014CS

SAMPLES: 16/SOIL/

| | | | |
|---|---|---|---|
| SOIL-01 | SOIL-02A | SOIL-03B | SOIL-04B |
| SOIL-01A | SOIL-02B | SOIL-03C | SOIL-04C |
| SOIL-01B | SOIL-03 | SOIL-04 | SED-01 |
| SOIL-02 | SOIL-03A | SOIL-04A | SED-02 |

## Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of sixteen (16) low level soil samples were evaluated using the following parameters:

* • Data completeness
* • Holding times
• Calibrations
* • Laboratory control sample results
• Laboratory and field blanks
• Matrix spike analysis results
• Laboratory and field duplicates
* • ICP interferences
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

## Overview

No field quality control blanks were analyzed under this analytical data set. However, results from the analyses of field quality control blanks taken in conjunction with the samples analyzed in this sample set, but analyzed in SDG 2910CW, were applied to

environmental samples in this sample set. Two pairs of field duplicates were included in this sample set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-26-91, 07-29-91, and 07-31-91, and analyzed by NET-Cambridge Division Laboratories under Naval Energy and Environmental Support Activity (NEESA) Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

Initial and final Contract Required Detection Limit (CRDL) Standard Percent Recoveries (%Rs) for antimony and silver were less than the 80% lower quality control limit. Positive results and nondetects for these analytes are qualifed as estimated, (J1) and (UJ1), respectively, in all samples.

The following analytes were detected in the analysis of field quality control blanks in the maximum concentrations indicated:

| Analyte | Maximum Concentration | | Action Level (mg/Kg) |
|---|---|---|---|
| calcium | 12700. | µg/L | 12700. |
| iron | 222. | µg/L | 222. |
| lead | 3.2 | µg/L | 3.2 |
| manganese | 41.7 | µg/L | 41.7 |
| sodium | 5850. | µg/L | 5850. |
| zinc | 68.3 | µg/L | 68.3 |

Positive sample results reported at concentrations less than respective action levels are qualified as unreliable, (R1). Moisture correction, sample weight, and dilution factors were considered prior to the application of all action levels. No action was taken for iron results as all positive results for this analyte were reported at concentrations greater than the action level.

The Matrix Spike (MS) %R for barium was greater than the 125% upper quality control limit. Positive results for this analyte are qualified as estimated, (J2), in all samples.

MS %Rs for antimony, copper, lead, and selenium were less than the 75% lower quality control limit, yet greater than 10%. Positive results (not qualified due to blank contamination) and nondetects for these analytes are qualified as estimated, (J3) and (UJ2),

respectively, in all samples.

Laboratory duplicate imprecision was noted for vanadium: Positive results and nondetects for this analyte are qualified as estimated, (J4) and (UJ3), respectively.

The Percent Difference (%D) for zinc in the ICP Serial Dilution analysis exceeded 10%; the initial sample result was greater than ten times the Instrument Detection Limit (IDL). Positive results for zinc reported at concentrations greater than ten times the IDL are qualified as estimated, (J5).

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Norman J. Straub
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality
Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
2. Appendix B - Results as Reported by the Laboratory.
3. Appendix C - Regional Worksheets.
4. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-01-2-341

TO: DAVE BRAYACK

DATE: JANUARY 24, 1992

FROM: KENT WEAVER

COPIES: D. A. SCHEIB

SUBJECT: ORGANIC DATA VALIDATION - VOA/BNA/PESTICIDES & PCBs
CALVERTON/NAVY CLEAN
CASE NO. FD403A

SAMPLES: 9/SOIL

| | | |
|---|---|---|
| SOIL05 | SOIL05A | SOIL05B |
| SOIL06 | SOIL06A | SOIL06B |
| SOIL07 | SOIL07A | SOIL07B |

8/WATER

| | | |
|---|---|---|
| MW16FP | MW11FP | MW3 |
| MW4 | MW5 | MW4FP |
| MW5FP | MW6 | |
| RINSATE5 | TB5 | TB6 |

Introduction

Organic data from the Target Compound List (TCL) full organics analysis of nine (9) soil and eight (8) water samples were evaluated using the following parameters:

* • Data Completeness
* • Holding times
* • GC/MS tuning and mass calibration
  • Initial and continuing calibrations
  • Laboratory and field blanks
  • Internal standards
  • Surrogate spike recoveries
  • Matrix spike/matrix spike duplicate results
* • Detection limits
* • Sample quantitation

The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix D (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

Overview

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07/26/91, and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 1/87 analytical and reporting protocols.

Summary

Volatile Fraction

An initial calibration Percent Relative Standard Deviation (%RSD) for bromomethane exceeded 50%. Nondetects for this compound in affected soil samples are qualified as estimated, "UJ". No affected positive results were reported for this compound.

An initial calibration %RSD for acetone exceeded the 30% quality control criterion. No action was taken for this compound because positive results in affected samples are qualified based on blank contamination.

Continuing calibration Percent Differences (%Ds) for 2-hexanone, acetone, and chloromethane exceeded 50%. No positive results were reported for these compounds in affected samples; nondetects are qualified as estimated, "UJ".

Some continuing calibration Percent Differences (%Ds) for bromoform, 2-butanone, acetone, 4-methyl-2-pentanone, 2-hexanone, and vinyl acetate exceeded the 25% quality control criterion. The positive results for acetone are qualified based on blank contamination. No actions were taken for the other compounds because no positive results were reported for these compounds in any affected sample.

Maximum concentrations of 45 ug/L acetone and 2 ug/L methylene chloride were detected in rinsate, trip, and/or method blanks analyzed with this sample set. Action levels of ten times the maximum amounts of these common contaminants were used to evaluate the data. Dilution and moisture correction factors were considered prior to the application of the action levels. Samples with positive results less than the Contract Required Quantitation Limit (CRQL) have been deleted and replaced with the CRQL followed by the undetected qualifier "U". Samples with positive results reported at concentrations greater than the CRQL but less than the action level, have been qualified as undetected, "U".

Bromoform, 1,1,2,2-tetrachloroethane, and 1,1,2-trichloroethane were also detected in laboratory method, trip, and/or rinsate blanks analyzed with this sample set. No action was taken because no positive results were reported for these compounds in any sample.

Sample MW16FP was diluted and reanalyzed due to target compounds which exceeded the instrument's linear calibration range and surrogate Percent Recoveries (%Rs) outside of QC limits. The dilution results also showed non-compliant surrogate %Rs but are considered to be of better quality and were therefore used for validation. Nondetects for this sample are qualified as estimated, "UJ". No positive results were reported for this sample.

Samples SOIL05 and SOIL06 were reanalyzed due to internal standard failure and/or surrogate %Rs outside QC limits. The reanalysis data for sample SOIL05 did not show marked improvement, therefore, the original analysis data were used in validation. The reanalysis data for sample SOIL06 showed internal standard failure of lesser extent than the original analysis, therefore, the reanalysis data was used in validation. Positive results and nondetects for the compounds quantitated under the failed standards in the affected samples are qualified as estimated, "J or UJ".

Some positive results for some compounds are reported at concentrations less than the CRQL and are considered to be approximate; these results are qualified as estimated, "J".

Semivolatile Fraction

The initial calibration %RSD for 3,3'-dichlorobenzidine exceeded the 30% quality control criterion. No action was taken because no positive results were reported for this compound in affected samples.

Continuing calibration %Ds for 3,3'-dichlorobenzidine, 3-nitroaniline, 4-nitroaniline, and pyrene exceeded 50%. Nondetects for these compounds in affected samples are qualified as estimated, "UJ". No positive results were reported for these compounds.

Some continuing calibration %Ds for benzoic acid, 4-nitroaniline, 2,4-dinitrophenol, bis(2-chloroisopropyl)ether, 4-chloroaniline, 3,3'-dichlorobenzidine, and pyrene exceeded the 25% quality control limit. Positive results for pyrene in affected samples are qualified as estimated "J". No qualifications were made for the

other compounds because no positive results were reported for these compounds in affected samples.

Maximum concentrations of 390 ug/kg di-n-butylphthalate and 110 ug/kg bis(2-ethylhexyl)phthalate were detected in method blanks analyzed with this sample set. Action levels of ten times these common contaminants were used to evaluate the data. Dilution and moisture correction factors were considered prior to the application of the action levels. Samples results for these compounds less than the Contract Required Quantitation Limit (CRQL) have been deleted and replaced with the CRQL followed by the undetected qualifier "U". Samples with positive results for acetone reported at concentrations greater than the CRQL but less than the action level, have been qualified as undetected, "U".

Phenol was also detected in a rinsate blank associated with this sample set. No qualifications were made because no positive results were reported for this compound in any sample.

Samples MW5 and MW11FP have surrogate spike %Rs diluted out, thus no recoveries were noted. No action is necessary.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) %Rs for phenol, 2,4-dinitrotoluene, and pentachlorophenol exceeded the upper quality control limits. No actions were taken because no positive results were reported for these compounds in the unspiked sample.

Samples SOIL06 and SOIL07B were diluted and reanalyzed due to internal standard failure. The dilution results are considered to be of better quality, therefore, they are used in validation. Positive results and nondetects for compounds quantitated under the failed internal standards in the diluted analysis for sample SOIL06 are qualified as estimated, "J, UJ", respectively.

Positive results for some compounds are qualified as estimated, "J", because they are reported at concentrations below the CRQL.

<u>Pesticides & PCBs</u>

Several continuing calibration %Ds of the quantitation column for 4,4'-DDT, methoxychlor, alpha-BHC, endrin ketone, aldrin, and beta-BHC exceeded the 15% quality control limit. Positive results for 4,4'-DDT are qualified as estimated, "J", in affected samples. No actions were taken for the other compounds because no positive results were reported for these compounds in any sample.

A MSD %R for gamma-BHC (Lindane) exceeded the upper quality control limit. No action was taken because no positive result was reported for this compound in the unspiked sample.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation", as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurance Project Plan (QAPP)."

| | |
|---|---|
| Kent E. Weaver<br>HALLIBURTON NUS | Debra A. Scheib<br>HALLIBURTON NUS |
| Data Validator | Data Validation Quality Assurance Officer |

Attachments:

1. Appendix A - Qualified Analytical Results.
2. Appendix B - Results as Reported by the Laboratory.
3. Appendix C - TICs.
4. Appendix D - Regional Worksheets.
5. Appendix E - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-2-1-245

TO: DAVE BRAYACK

DATE: JANUARY 24, 1992

FROM: NORMAN J. STRAUB

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - VOA/BNA/Pesticides and PCBs
CALVERTON
SDG FD403C

SAMPLES: 23/SOIL/

| | | | |
|---|---|---|---|
| SED-03 | SOIL-14A | SOIL-16C | SOIL-18B |
| SED-04 | SOIL-15 | SOIL-17 | SOIL-18C |
| SED-05 | SOIL-15A | SOIL-17A | SOIL-19 |
| SOIL-13 | SOIL-15C | SOIL-17C | SOIL-19A |
| SOIL-13A | SOIL-16 | SOIL-18 | SOIL-19B |
| SOIL-14 | SOIL-16A | SOIL-18A | |

2/AQUEOUS/

FIELD BLANK #3 TRIP BLANK #10

## Introduction

Organic data from the Target Compound List (TCL) volatile, semivolatile, and pesticide and PCB analysis of twenty-three (23) soil samples and two (2) low level aqueous samples were evaluated using the following parameters:

* • Data completeness
* • Holding times
  • Surrogate recoveries
  • Matrix spike and matrix spike duplicate analysis results
  • Field and laboratory method blank analysis
* • GC/MS tuning and system performance
  • Initial and continuing calibrations
  • Internal standard performance
* • Field duplicate precision
* • Quantitation limits
* • Compound quantitation

The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix D (Regional Worksheets).

Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

Overview

Four field duplicate pairs, one field blank, and one trip blank were analyzed under this analytical data set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-30-91, and analyzed by NET-Cambridge Division Laboratories under Naval Energy and Environmental Support Activity (NEESA) Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

Summary

Volatile Fraction

The Percent Recovery (%R) reported for the bromofluorobenzene surrogate compound in sample SOIL-13A exceeded the upper quality control limit. All positive results and nondetects are qualified as estimated, "J" and "UJ", respectively, in the affected sample.

Chloroform was detected in a maximum concentration of 1 µg/Kg in the analysis of laboratory method blanks and acetone was detected in a maximum concentration of 31 µg/L in the analysis of the field blank analyzed with this sample set. Action levels of 5 µg/Kg for chloroform and 310 µg/Kg for acetone were used to evaluate the data. Moisture correction and dilution factors were considered prior to the application of all action levels. Positive results reported for the blank contaminants at concentrations less than the Contract Required Quantitation Limit (CRQL) and the respective action level have been replaced by the respective CRQL and qualified as undetected, "U". Positive results reported for the blank contaminants at concentrations above the CRQL and less than the respective action levels are qualified as undetected, "U".

Some initial calibration Relative Response Factors (RRFs) reported for 2-butanone were less than the 0.050 quality control limit. Nondetects reported for this compound are considered unreliable and have been rejected, qualified "R", in affected samples.

Some continuing calibration Percent Differences (%Ds) reported for acetone exceeded the 50% quality control limit. Nondetects for this compound not previously flagged because of blank contamination are qualified as estimated, "UJ", in affected samples.

Semivolatile Fraction

The following summarizes the maximum concentrations of contaminants detected in laboratory method and field quality control blanks analyzed with this sample set:

| Common Contaminant | Maximum Concentration (µg/Kg) |
|---|---|
| bis(2-ethylhexyl)phthalate | 82 |
| di-n-butylphthalate | 550 |
| butylbenyzlphthalate | 61 |

| Other Contaminant | Maximum Concentration (µg/L) |
|---|---|
| phenol | 8 |

Action levels of ten times the maximum concentration of common contaminants and five times the maximum concentration of the other contaminant were used to evaluate the data. Moisture correction and dilution factors were considered prior to the application of all action levels. Positive results reported for the blank contaminants at concentrations less than the CRQL and the respective action level have been replaced by the CRQL and qualified as undetected, "U". Positive results reported for the blank contaminants at concentrations above the CRQL and less than the respective action levels are qualified as undetected, "U". No action was taken for phenol as no positive results were reported for this compound at concentrations less the than the action level.

Some continuing calibration RRFs reported for 3,3'-dichlorobenzidine were less than the 0.050 quality control limit. Nondetects reported for this compound are considered unreliable and have been rejected, qualified "R", in affected samples.

Some continuing calibration %Ds reported for 3-nitroaniline, 4-nitroaniline, 3,3'-dichlorobenzidine, benzoic acid, 2,4-dinitrophenol, and pyrene exceeded the 50% quality control limit. Nondetects for these compounds are qualified as estimated, "UJ", in affected samples.

Some continuing calibration %Ds reported for several compounds exceeded the 25% quality control limit. One positive result reported for benzoic acid is qualified as estimated, "J", in an affected sample. No other actions were taken for noncompliant compounds as no positive results were reported for these compounds

in the affected samples.

Pesticide and PCB Fraction

All data were accepted without qualification.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation" (2/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurance Project Plan (QAPP)."

Norman J. Straub
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
2. Appendix B - Annotated Tentatively Identified Compound Results.
4. Appendix C - Results as Reported by the Laboratory.
5. Appendix D - Regional Worksheets.
5. Appendix E - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-1-2-253

**TO:** DAVE BRAYACK **DATE:** JANUARY 27, 1991

**FROM:** RICKY C. DEPAUL **CC:** D. A. SCHEIB

**SUBJECT:** ORGANIC DATA VALIDATION - VOA/BNA/PESTICIDES & PCBs
CALVERTON/NAVY CLEAN
CASE NO. FD413A

**SAMPLES:** 6/WATER/

SW-01 SW-02 SW-02A Trip Blank-11

Trip Blank #9 Rinsate #9

15/SOIL/

| | | | |
|---|---|---|---|
| SED-01 | SED-02 | SOIL-01 | SOIL-01A |
| SOIL-22 | SOIL-22A | SOIL-22B | SOIL-23 |
| SOIL-23C | SOIL-23A | SOIL-23B | SOIL-24 |
| SOIL-24A | SOIL-24B | SOIL-01B | |

## Introduction

Organic data from the full organics Target Compound List (TCL) analysis of three (3) low level water samples (including one field duplicate pair), fifteen (15) low level soil samples (including one field duplicate pair), and three (3) associated field quality control blanks were evaluated using the following parameters:

* o Data Completeness
o Holding times
* o GC/MS tuning and mass calibration
o Initial and continuing calibrations
o Laboratory and field blanks
o Internal standards
o Surrogate spike recoveries
* o Matrix spike/matrix spike duplicate results
* o Detection Limits
* o Sample Quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these**

**parameters is provided in Appendix D (Regional Worksheets).** Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.

Overview

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07/29/91 and 07/31/91, and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 1/87 analytical and reporting protocols.

Summary

Volatile Fraction

Samples SOIL-01B and SOIL-22 have surrogate spike Percent Recoveries (%Rs) outside of QC limits. These samples were reanalyzed but the surrogate recoveries still remained outside of the quality control limits. The original data was used for validation. Positive results and nondetects for all compounds in these samples are qualified as estimated, J and UJ, respectively.

Blank contamination occurred in both the laboratory method and field quality control blanks. Acetone and methylene chloride were detected at maximum concentrations of 39 ug/L and 1 ug/L, respectively in the field blanks. Action levels of 390 ug/L and 10 ug/L respectively for these common contaminants were used to evaluate the data.

Chloroform, 2-hexanone and 1,1,2,2-tetrachloroethane were also detected in laboratory method blanks and/or field blanks analyzed with this sample set. Sample results for these compounds < 5X the action level are replaced with the CRQL when contaminant concentrations are < the CRQL. If contaminant concentrations are < the action level and > the CRQL, results are qualified as nondetected, U.

The initial calibration Percent Relative Standard Deviation (%RSD) for bromomethane and 2-butanone exceeded the 30% quality control limit. Only nondetected sample results were reported for these compounds; no data qualifications are necessary.

One Percent Difference (%D), was > 50% for 2-hexanone. Nondetected sample results for this compound are qualified as estimated, UJ.

Semivolatile Fraction

The holding times until extraction for samples SOIL-23B, SOIL-23A, SOIL-23C, SOIL-22B, SOIL-22A and SOIL-22 failed to meet the seven day limit. Positive and nondetected sample results for all compounds in these samples are qualified as estimated, J and UJ, respectively.

Phenol was detected in the field blank at a maximum concentration of 16 ug/L. Also, the common phthalate esters, di-n-butylphthalate, butyl-benzylphthalate and bis(2-ethylhexyl)phthalate were detected in the laboratory and/or field blanks. All sample results for these compounds were < the CRQLs and < the action levels; hence, all results for these compounds were replaced by CRQLs.

The Percent Relative Standard Deviation (%RSD) for 3,3'-dichlorobenzidine exceeded 30%. Only nondetected sample results were reported for this compound; no qualifications are necessary.

The continuing calibration Percent Differences (%Ds) for benzoic acid, 4-nitroaniline, bis(2-chloroisopropyl)ether, bis(2-ethylhexyl)phthalate, benzyl alcohol and 3-nitroaniline exceeded 25%. However, only nondetects were reported for these compounds and no action was required. The %Ds for 3,3'-dichlorobenzidine, bis(2-chloroisopropyl)ether, benzoic acid, 2,4-dinitrophenol and 4-nitroaniline exceeded 50%. Nondetected sample results for these compounds are qualified as estimated, UJ.

Field duplicate samples, SOIL-23 and SOIL-23C exhibited large deviations among results. However, sample data is not qualified for this reason.

Pesticide PCB Fraction

The continuing calibration standard calibration factors percent difference (%D) for the quantitation column, exceeded 15% for Aldrin and 4,4'-DDT. However, only nondetected sample results were reported for these compounds and no action was taken. The (%D) for the confirmation column, exceeded 20% for Endosulfan sulfate. Only nondetects were reported for this compound and no action was taken.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation", as amended for use within EPA Region II, and the NEESA document "Sampling and

Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". **The text of this report has been formulated to address only those problem areas affecting data quality.**

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurance Project Plan (QAPP)."

Ricky C. DePaul

HALLIBURTON NUS
Chemist

Debra A. Scheib

HALLIBURTON NUS
Data Quality Assurance Officer

Attachments:

Appendix A: Qualified Analytical results.
Appendix B: Annotated Tentatively Identified Compounds (TICs).
Appendix C: Results as Reported by the Laboratory.
Appendix D: Regional Worksheets.
Appendix E: Support Documentation.

HALLIBURTON NUS
Environmental Corporation

INTERNAL CORRESPONDENCE

C-49-2-1-120

**TO:** DAVE BRAYACK **DATE:** JANUARY 9, 1992

**FROM:** KAREN M. SMECKER **COPIES:** D. A. SCHEIB

**SUBJECT:** INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2021CS

**SAMPLES:** 10/SOIL/SOIL-

| | | | | | |
|---|---|---|---|---|---|
| 05 | 05A | 5B | 06 | 06A | 06B |
| 07 | 07A | 07B | 08 | | |

Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of nine (9) low level soil samples, and one (1) additional low level soil sample that was analyzed for cyanide only, were evaluated using the following parameters:

* • Data completeness
* • Holding times
  • Calibrations
* • Laboratory control sample results
* • Laboratory blanks
* • Matrix spike analysis results
* • Laboratory duplicates
* • ICP interferences
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

Overview

No field quality control blanks or field duplicate pairs were analyzed under this analytical data set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-24-91 and 07-25-91, and analyzed by NET-Cambridge Division Laboratories under NEESA Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory

Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

The CRDL Standard analysis recovery for antimony was below the 80% lower quality control limit. No positive results were reported for this analyte; nondetects are qualified as estimated (UJ).

The CRDL Standard analysis recovery for lead exceeded the 120% upper quality control limit. Only positive results were reported for this analyte, and these results are qualified as estimated (J).

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Karen M. Smecker
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
3. Appendix B - Results as Reported by the Laboratory.
4. Appendix C - Regional Worksheets.
5. Appendix D - Support Documentation.

HALLIBURTON NUS
Environmental Corporation

# INTERNAL CORRESPONDENCE

C-49-2-1-242

TO: DAVE BRAYACK

DATE: JANUARY 16, 1992

FROM: NORMAN J. STRAUB

COPIES: D. A. SCHEIB

SUBJECT: INORGANIC DATA VALIDATION - TAL METALS AND CYANIDE
CALVERTON
SDG 2910CW

SAMPLES: 11/AQUEOUS/

| | | | |
|---|---|---|---|
| MW03 | SW01 | RINSATE#5 | FIELD BLANK#2 |
| MW04 | SW02 | RINSATE#8 | FIELD BLANK#3 |
| MW05 | SW02A | RINSATE#9 | |

## Introduction

Inorganic data from the Target Analyte List (TAL) metals and cyanide analysis of eleven (11) low level water samples were evaluated using the following parameters:

* • Data completeness
* • Holding times
  • Calibrations
* • Laboratory control sample results
* • Laboratory and field quality control blanks
* • Matrix spike analysis results
* • Laboratory duplicates
* • ICP interferences
* • Detection limits
* • Analyte quantitation

**The symbol (*) indicates that all quality control criteria were met for this parameter. Documentation of compliance for these parameters is provided in Appendix C (Regional Worksheets). Problems affecting data quality are discussed below, and the data spreadsheets presented in Appendix A (Qualified Analytical Results) summarize the validation qualifications.**

## Overview

Five field quality control blanks were analyzed under this analytical data set. However, only analytical results from RINSATE#5 applied to environmental samples in this sample set (MW03, MW04, and MW05). Other field quality control blanks apply to samples analyzed in different analytical sets. One pair of field duplicates were included in this sample set.

The samples were collected by HALLIBURTON NUS Environmental Corporation on 07-23-91, 07-26-91, 07-29-91, 07-30-91, and 07-31-91, and analyzed by NET-Cambridge Division Laboratories under Naval Energy and Environmental Support Activity (NEESA) Level D QA/QC criteria. All analyses were conducted in accordance with the Contract Laboratory Program (CLP) Statement of Work (SOW) 7/88 analytical and reporting protocols.

SUMMARY

Initial and final Contract Required Detection Limit (CRDL) Standard Percent Recoveries (%Rs) for antimony and silver were less than the 80% lower quality control limit, yet greater than 50%. Nondetects in all samples for these analytes are qualifed as estimated, (UJ1); no positive results were reported.

Matrix Spike (MS) %Rs for selenium and cyanide were less than the 75% lower quality control limit, yet greater than 30%. Positive results and nondetects reported for these analytes are qualified as estimated, (J2) and (UJ2), respectively, in all samples; no positive results were reported for selenium.

Absolute differences between reported results for zinc and cyanide in the field duplicate pair (samples SW02 and SW02A) were greater than the respective CRDLs. Positive results (not qualified due to blank contamination) and nondetects for these analytes in all samples are qualifed as estimated, (J3) and (UJ3), respectively.

The Percent Difference (%D) for manganese in the ICP Serial Dilution analysis exceeded 10%; the initial result was greater than ten times the Instrument Detection Limit (IDL). Positive results for manganese greater than ten times the IDL are qualified as estimated, (J4), in all samples.

Lead and zinc were detected in the analysis of RINSATE#5, a rinsate blank analyzed with this sample set, in maximum concentrations of 3.10 $\mu$g/L and 61.50 $\mu$g/L, respectively. Positive results reported for these analytes in samples MW03, MW04, and MW05 (the associated environmental samples) at concentrations less than five times the reported maximums are qualified as unreliable, (R1).

The Method of Standard Additions (MSA) correlation coeffient (r) for lead in sample RINSATE#8 did not meet the 0.995 quality control criterion. The positive result for this analyte is estimated, (J1), in this sample.

No other problems were noted.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Inorganic Data Validation" (7/88), as amended for use within EPA Region II, and the NEESA document "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program". The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NEESA Guidelines and the Quality Assurrance Project Plan (QAPP)."

Norman J. Straub
HALLIBURTON NUS

Data Validator

Debra A. Scheib
HALLIBURTON NUS

Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results.
2. Appendix B - Results as Reported by the Laboratory.
3. Appendix C - Regional Worksheets.
4. Appendix D - Support Documentation.