TriMatrix
Laboratories, Inc.

November 23, 2004

EQ-Environmental Quality Company
Attn: Ms. Terri Zick
CTI & Associates, Inc.
12482 Emerson Drive
Brighton, MI 48116

**RE: Arkona Road Leachate**
**Submittal Number: 36650-3**

Dear Ms. Terri Zick:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 29, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 60.

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**STATEMENT OF DATA QUALIFICATIONS**

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

**Note:** This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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Individual sample results relate only to the sample tested.

# CASE NARRATIVE

Analysis: **Semi-Volatiles 8270C**
Semi-Volatiles GC/MS
WATER USEPA-8270C

**Narrative:**

Chromatographic limitations of this method prevent 4-methylphenol from being resolved from 3-methylphenol. Because of this, the reported result could actually be 4-methylphenol, 3-methylphenol, or a combination of both isomers.

**Sample(s) Narrated:** 375055 ARL 3 (A-M)



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Individual sample results relate only to the sample tested.

TriMatrix Laboratories, Inc.

# ANALYTICAL REPORT

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Sampled: 10/28/04 @ 10:35
Sampler: T. Zick
Received: 10/29/04 @ 08:55

Submittal #: **36650-3**
Submittal: October 28, 2004 Sample

Sample ID: **ARL 3 (A-M)**
Sample #: **375055**
Matrix: Leachate

Percent Solids: n/a

| Parameter | Analytical Result | Reporting Limit | Unit | Analysis Date | Chem | Reference Citation |
|---|---|---|---|---|---|---|
| Cyanide, Total | <0.005 | 0.005 | mg/L | 11/04/04 | JLB | USEPA-335.2 |
| Sulfide | <1.0 | 1.0 | mg/L | 11/03/04 | HLB | 376.1/4500 S2-F |
| Residue, Suspended | 57 | 25 | mg/L | 11/01/04 | INR | 160.2/SM 2540 D |
| Antimony, Total | <0.1 | 0.1 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Arsenic, Total | <0.1 | 0.1 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Barium, Total | 1.04 | 0.01 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Beryllium, Total | <0.01 | 0.01 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Cadmium, Total | <0.01 | 0.01 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Chromium, Total | <0.05 | 0.05 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Cobalt, Total | 0.021 | 0.01 | mg/L | 11/09/04 | DWJ | EPA-200.7 |
| Copper, Total | <0.01 | 0.01 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Lead, Total | <0.05 | 0.05 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Mercury, Total | <0.0002 | 0.0002 | mg/L | 11/03/04 | JLTR | USEPA-245.1 |
| Nickel, Total | 0.037 | 0.01 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Selenium, Total | <0.1 | 0.1 | mg/L | 11/09/04 | DWJ | EPA-200.7 |
| Silver, Total | 0.012 | 0.01 | mg/L | 11/09/04 | DWJ | EPA-200.7 |
| Thallium, Total | <0.1 | 0.1 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Tin, Total | <1 | 1 | mg/L | 11/13/04 | DWJ | EPA-200.7 |
| Vanadium, Total | <0.1 | 0.1 | mg/L | 11/05/04 | KLVM | EPA-200.7 |
| Zinc, Total | 0.33 | 0.02 | mg/L | 11/05/04 | KLVM | EPA-200.7 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/03/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-3510C |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/09/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100900 -103 |
| Sample #: | **375055** | Anal. Batch: | 224344 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 83-32-9 | Acenaphthene | <0.005 | 0.005 |
| 208-96-8 | Acenaphthylene | <0.005 | 0.005 |
| 98-86-2 | Acetophenone | <0.01 | 0.01 |
| 53-96-3 | 2-Acetylaminofluorene | <0.05 | 0.05 0.02 |
| 92-67-1 | 4-Aminobiphenyl | <0.01 | 0.01 |
| 62-53-3 | **Aniline** | **0.038** | 0.005 |
| 120-12-7 | Anthracene | <0.005 | 0.005 |
| 140-57-8 | Aramite | <0.05 | 0.05 0.02 |
| 56-55-3 | Benzo (a) Anthracene | <0.005 | 0.005 |
| 50-32-8 | Benzo (a) Pyrene | <0.005 | 0.005 |
| 205-99-2 | Benzo (b) Fluoranthene | <0.005 | 0.005 |
| 207-08-9 | Benzo (k) Fluoranthene | <0.005 | 0.005 |
| 191-24-2 | Benzo (g,h,i,) Perylene | <0.005 | 0.005 |
| 100-51-6 | Benzyl Alcohol | <0.05 | 0.05 0.02 |
| 101-55-3 | 4-Bromophenyl Phenylether | <0.005 | 0.005 |
| 85-68-7 | Butyl Benzyl Phthalate | <0.005 | 0.005 |
| 88-85-7 | 2-sec-Butyl-4,6-dinitro-phenol | <0.005 | 0.005 |
| 106-47-8 | 4-Chloroaniline | <0.02 | 0.02 |
| 111-91-1 | Bis (2-Chloroethoxy)-Methane | <0.005 | 0.005 |
| 111-44-4 | Bis (2-Chloroethyl) Ether | <0.005 | 0.005 |
| 108-60-1 | Bis (2-Chloroisopropyl)-Ether | <0.005 | 0.005 |
| 59-50-7 | 4-Chloro-3-Methylphenol | <0.005 | 0.005 |
| 91-58-7 | 2-Chloronaphthalene | <0.005 | 0.005 |
| 95-57-8 | 2-Chlorophenol | <0.005 | 0.005 |
| 7005-72-3 | 4-Chlorophenylphenyl-Ether | <0.005 | 0.005 |
| 218-01-9 | Chrysene | <0.005 | 0.005 |
| 84-74-2 | Di-n-Butylphthalate | <0.005 | 0.005 |
| 117-84-0 | Di-n-Octylphthalate | <0.005 | 0.005 |
| 53-70-3 | Dibenzo (a,h) Anthracene | <0.005 | 0.005 |



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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/03/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-3510C |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/09/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100900 -103 |
| Sample #: | **375055** | Anal. Batch: | 224344 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 132-64-9 | Dibenzofuran | <0.005 | 0.005 |
| 95-50-1 | 1,2-Dichlorobenzene | <0.005 | 0.005 |
| 541-73-1 | 1,3-Dichlorobenzene | <0.005 | 0.005 |
| 106-46-7 | 1,4-Dichlorobenzene | <0.005 | 0.005 |
| 91-94-1 | 3,3'-Dichlorobenzidine | <0.02 | 0.02 |
| 120-83-2 | 2,4-Dichlorophenol | <0.005 | 0.005 |
| 87-65-0 | 2,6-Dichlorophenol | <0.005 | 0.005 |
| 84-66-2 | **Diethylphthalate** | **0.017** | 0.005 |
| 60-11-7 | p-Dimethylaminoazobenzene | <0.01 | 0.01 |
| 57-97-6 | 7,12-Dimethylbenz(a)anthracene | <0.01 | 0.01 |
| 119-93-7 | 3,3'-Dimethylbenzidine | <0.05 | 0.05 |
| 122-09-8 | a,a-Dimethyl-phenethylamine | <0.02 | 0.02 |
| 105-67-9 | **2,4-Dimethylphenol** | **0.02** | 0.005 |
| 131-11-3 | Dimethylphthalate | <0.005 | 0.005 |
| 99-65-0 | 1,3-Dinitrobenzene | <0.005 | 0.005 |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | <0.02 | 0.02 |
| 51-28-5 | 2,4-Dinitrophenol | <0.02 | 0.02 |
| 121-14-2 | 2,4-Dinitrotoluene | <0.005 | 0.005 |
| 606-20-2 | 2,6-Dinitrotoluene | <0.005 | 0.005 |
| 122-39-4 | Diphenylamine | <0.01 | 0.01 |
| 117-81-7 | **Bis (2-ethylhexyl)-Phthalate** | **0.0082** | 0.005 |
| 97-63-2 | Ethyl Methacrylate | <0.05 | 0.05 |
| 62-50-0 | Ethyl Methanesulfonate | <0.01 | 0.01 |
| 206-44-0 | Fluoranthene | <0.005 | 0.005 |
| 86-73-7 | Fluorene | <0.005 | 0.005 |
| 118-74-1 | Hexachlorobenzene | <0.005 | 0.005 |
| 87-68-3 | Hexachlorobutadiene | <0.005 | 0.005 |
| 77-47-4 | Hexachlorocyclopentadiene | <0.005 | 0.005 |
| 67-72-1 | Hexachloroethane | <0.005 | 0.005 |



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## ANALYTICAL REPORT

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Submittal #: **36650-3**
Submittal: October 28, 2004 Sample

Sample ID: **ARL 3 (A-M)**
Sample #: **375055**
Matrix: Leachate
Unit: mg/L

Sampled: 10/28/04 @ 10:35
Sampler: T. Zick
Received: 10/29/04 @ 08:55
Prepared: 11/03/04 by PAK
Prep. Method: USEPA-3510C
Analyzed: 11/09/04 by JMK1
Anal. Method: USEPA-8270C
QC Batch: 100900 -103
Anal. Batch: 224344
Percent Solids: n/a
Dilution Factor: 1

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit | |
|---|---|---|---|---|
| 1888-71-7 | Hexachloropropene | <0.05 | 0.05 | |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | <0.005 | 0.005 | |
| 78-59-1 | Isophorone | <0.005 | 0.005 | |
| 120-58-1 | Isosafrole | <0.02 | 0.02 | 0.01 |
| 91-80-5 | Methapyrilene | <0.01 | 0.01 | |
| 56-49-5 | 3-Methylcholanthrene | <0.05 | 0.05 | 0.01 |
| 66-27-3 | Methyl methanesulfonate | <0.05 | 0.05 | 0.01 |
| 80-62-6 | Methylmethacrylate | <0.05 | 0.05 | |
| 91-57-6 | 2-Methylnaphthalene | <0.005 | 0.005 | |
| 95-48-7 | **2-Methylphenol** | **0.034** | 0.005 | |
| 108-39-4 | 3-Methylphenol | <0.005 | 0.005 | |
| 106-44-5 | **4-Methylphenol** | **0.071** | 0.005 | |
| 91-20-3 | **Naphthalene** | **0.0081** | 0.005 | |
| 130-15-4 | 1,4-Naphthoquinone | <1 | 1 | 0.01 |
| 134-32-7 | 1-Naphthylamine | <0.05 | 0.05 | 0.01 |
| 91-59-8 | 2-Naphthylamine | <0.05 | 0.05 | 0.01 |
| 88-74-4 | 2-Nitroaniline | <0.02 | 0.02 | |
| 99-09-2 | 3-Nitroaniline | <0.02 | 0.02 | |
| 100-01-6 | 4-Nitroaniline | <0.02 | 0.02 | |
| 98-95-3 | Nitrobenzene | <0.005 | 0.005 | |
| 88-75-5 | 2-Nitrophenol | <0.005 | 0.005 | |
| 100-02-7 | 4-Nitrophenol | <0.02 | 0.02 | |
| 56-57-5 | 4-Nitroquinoline-1-oxide | <0.5 | 0.5 | 0.04 |
| 924-16-3 | N-Nitroso-di-n-butylamine | <0.02 | 0.02 | 0.01 |
| 55-18-5 | N-Nitroso-di-ethylamine | <0.005 | 0.005 | |
| 62-75-9 | N-Nitroso-di-methylamine | <0.005 | 0.005 | |
| 86-30-6 | **N-Nitroso-di-Phenylamine** | **0.02** | 0.005 | |
| 621-64-7 | N-Nitrosodi-n-Propylamine | <0.005 | 0.005 | |
| 10595-95-6 | N-Nitrosomethylethylamine | <0.005 | 0.005 | |
| 59-89-2 | N-Nitrosomorpholine | <0.02 | 0.02 | |
| 100-75-4 | N-Nitrosopiperidine | <0.02 | 0.02 | |
| 930-55-2 | N-Nitrosopyrrolidine | <0.02 | 0.02 | |
| 99-55-8 | 5-Nitro-o-toluidine | <0.01 | 0.01 | |



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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/03/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-3510C |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/09/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100900 -103 |
| Sample #: | **375055** | Anal. Batch: | 224344 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit | |
|---|---|---|---|---|
| 608-93-5 | Pentachlorobenzene | <0.005 | 0.005 | |
| 76-01-7 | Pentachloroethane | <0.05 | 0.05 | |
| 82-68-8 | Pentachloronitrobenzene | <0.02 | 0.02 | |
| 87-86-5 | Pentachlorophenol | <0.02 | 0.02 | |
| 62-44-2 | Phenacetin | <0.01 | 0.01 | |
| 85-01-8 | Phenanthrene | <0.005 | 0.005 | |
| 108-95-2 | **Phenol** | **0.018** | 0.005 | |
| 106-50-3 | 1,4-Phenylenediamine | <0.01 | 0.01 | |
| 109-06-8 | **2-Picoline** | **0.0093** | 0.005 | |
| 129-00-0 | Pyrene | <0.005 | 0.005 | |
| 110-86-1 | Pyridine | <0.01 | 0.01 | |
| 23950-58-5 | Pronamide | <0.01 | 0.01 | |
| 94-59-7 | Safrole | <0.01 | 0.01 | |
| 95-94-3 | 1,2,4,5-Tetrachloro-benzene | <0.01 | 0.01 | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | <0.05 | 0.05 | 0.01 |
| 95-53-4 | **2-Toluidine** | **0.014** | 0.01 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | <0.005 | 0.005 | |
| 95-95-4 | 2,4,5-Trichlorophenol | <0.05 | 0.05 | 0.01 |
| 88-06-2 | 2,4,6-Trichlorophenol | <0.005 | 0.005 | |
| 99-35-4 | 1,3,5-Trinitrobenzene | <0.02 | 0.02 | 0.01 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/03/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-3510C |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/09/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100900 -103 |
| Sample #: | **375055** | Anal. Batch: | 224344 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Organophosphorus Pesticides by USEPA-8270 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 60-51-5 | Dimethoate | <0.02 | 0.02 |
| 298-04-4 | Disulfoton | <0.02 | 0.02 |
| 52-85-7 | Famphur | <0.02 | 0.02 |
| 298-00-0 | Methyl Parathion | <0.02 | 0.02 |
| 56-38-2 | Parathion | <0.02 | 0.02 |
| 126-68-1 | o-o-o-Triethyl-phosphorothioate | <0.02 | 0.02 |
| 297-97-2 | Thionazin | <0.02 | 0.02 |
| 298-02-2 | Phorate | <0.02 | 0.02 |
| 3689-24-5 | Sulfotepp | <0.02 | 0.02 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/01/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-3510C |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/10/04 by JLW |
| | | Anal. Method: | USEPA-8082 |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100583 -101 |
| Sample #: | **375055** | Anal. Batch: | 224471 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | PCB Scan USEPA Method 8082 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 12674-11-2 | PCB-1016 | <0.0002 | 0.0002 |
| 11104-28-2 | PCB-1221 | <0.0002 | 0.0002 |
| 11141-16-5 | PCB-1232 | <0.0002 | 0.0002 |
| 53469-21-9 | PCB-1242 | <0.0002 | 0.0002 |
| 12672-29-6 | PCB-1248 | <0.0002 | 0.0002 |
| 11097-69-1 | PCB-1254 | <0.0002 | 0.0002 |
| 11096-82-5 | PCB-1260 | <0.0002 | 0.0002 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/01/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-3510C |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/04/04 by MSN |
| | | Anal. Method: | USEPA-8081A |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 101070 -101 |
| Sample #: | **375055** | Anal. Batch: | 224158 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Appendix IX Pesticides USEPA 8081 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 309-00-2 | Aldrin | <0.001 | 0.001 |
| 319-84-6 | Alpha-BHC | <0.001 | 0.001 |
| 319-85-7 | Beta-BHC | <0.001 | 0.001 |
| 58-89-9 | Lindane | <0.001 | 0.001 |
| 319-86-8 | Delta-BHC | <0.001 | 0.001 |
| 5103-71-9 | A-Chlordane | <0.001 | 0.001 |
| 5103-74-2 | G-Chlordane | <0.001 | 0.001 |
| 510-15-6 | Chlorobenzilate | <0.01 | 0.01 |
| 50-29-3 | 4,4'-DDT | <0.001 | 0.001 |
| 72-55-9 | 4,4'-DDE | <0.001 | 0.001 |
| 72-54-8 | 4,4'-DDD | <0.001 | 0.001 |
| 2303-16-4 | Diallate | <0.05 | 0.05 |
| 60-57-1 | Dieldrin | <0.001 | 0.001 |
| 959-98-8 | Endosulfan I | <0.001 | 0.001 |
| 33213-65-9 | Endosulfan II | <0.001 | 0.001 |
| 1031-07-8 | Endosulfan Sulfate | <0.001 | 0.001 |
| 72-20-8 | Endrin | <0.001 | 0.001 |
| 7421-93-4 | Endrin Aldehyde | <0.001 | 0.001 |
| 76-44-8 | Heptachlor | <0.001 | 0.001 |
| 1024-57-3 | Heptachlor Epoxide | <0.001 | 0.001 |
| 465-73-6 | Isodrin | <0.005 | 0.005 |
| 143-50-0 | Kepone | <0.005 | 0.005 |
| 72-43-5 | Methoxychlor | <0.001 | 0.001 |
| 8001-35-2 | Toxaphene | <0.001 | 0.001 |



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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | 11/04/04 by PAK |
| Submittal #: | **36650-3** | Prep. Method: | USEPA-8151A |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/12/04 by MSN |
| | | Anal. Method: | USEPA-8151A |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 101062 -104 |
| Sample #: | **375055** | Anal. Batch: | 224545 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 11 |

| CAS Number | Appendix IX Herbicides USEPA 8151 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 94-75-7 | 2,4-D | <0.005 | 0.005 |
| 93-76-5 | 2,4,5-T | <0.005 | 0.005 |
| 93-72-1 | 2,4,5-TP (Silvex) | <0.005 | 0.005 |
| 88-85-7 | Dinoseb | <0.005 | 0.005 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | n/a |
| Submittal #: | **36650-3** | Prep. Method: | n/a |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/01/04 by DLVV |
| | | Anal. Method: | USEPA-8260B |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100615 -101 |
| Sample #: | **375055** | Anal. Batch: | 223895 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 10 |

| CAS Number | Volatile Organics-8260B Appendix IX List | Analytical Result | Reporting Limit |
|---|---|---|---|
| 67-64-1 | Acetone | <0.5 | 0.5 |
| 75-05-8 | Acetonitrile | <0.1 | 0.1 |
| 107-02-8 | Acrolein | <0.05 | 0.05 |
| 107-13-1 | Acrylonitrile | <0.01 | 0.01 |
| 107-05-1 | Allyl Chloride | <0.1 | 0.1 |
| 71-43-2 | **Benzene** | **0.012** | 0.01 |
| 75-27-4 | Dichlorobromomethane | <0.01 | 0.01 |
| 75-25-2 | Bromoform | <0.01 | 0.01 |
| 74-83-9 | Bromomethane | <0.01 | 0.01 |
| 78-93-3 | **2-Butanone** | **0.72** | 0.5 |
| 75-15-0 | Carbon Disulfide | <0.05 | 0.05 |
| 56-23-5 | Carbon Tetrachloride | <0.01 | 0.01 |
| 108-90-7 | **Chlorobenzene** | **0.067** | 0.01 |
| 75-00-3 | **Chloroethane** | **0.036** | 0.01 |
| 67-66-3 | Chloroform | <0.01 | 0.01 |
| 74-87-3 | Chloromethane | <0.01 | 0.01 |
| 126-99-8 | 2-Chloro-1,3-butadiene | <0.5 | 0.5 |
| 124-48-1 | Chlorodibromomethane | <0.01 | 0.01 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | <0.01 | 0.01 |
| 106-93-4 | 1,2-Dibromoethane | <0.1 | 0.1 |
| 74-95-3 | Dibromomethane | <0.01 | 0.01 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | <0.05 | 0.05 |
| 75-71-8 | Dichlorodifluoromethane | <0.01 | 0.01 |
| 75-34-3 | **1,1-Dichloroethane** | **0.1** | 0.01 |
| 107-06-2 | **1,2-Dichloroethane** | **0.014** | 0.01 |
| 75-35-4 | 1,1-Dichloroethylene | <0.01 | 0.01 |
| 540-59-0 | 1,2-Dichloroethylene-(total) | <0.02 | 0.02 |
| 78-87-5 | 1,2-Dichloropropane | <0.01 | 0.01 |
| 10061-01-5 | cis-1,3-Dichloropropene | <0.01 | 0.01 |
| 10061-02-6 | trans-1,3-Dichloropropene | <0.01 | 0.01 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/28/04 @ 10:35 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/29/04 @ 08:55 |
| | | Prepared: | n/a |
| Submittal #: | **36650-3** | Prep. Method: | n/a |
| Submittal: | October 28, 2004 Sample | Analyzed: | 11/01/04 by DLVV |
| | | Anal. Method: | USEPA-8260B |
| Sample ID: | **ARL 3 (A-M)** | QC Batch: | 100615 -101 |
| Sample #: | **375055** | Anal. Batch: | 223895 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 10 |

| CAS Number | Volatile Organics-8260B Appendix IX List | Analytical Result | Reporting Limit |
|---|---|---|---|
| 123-91-1 | **1,4-Dioxane** | **4.4** | 3 |
| 100-41-4 | **Ethylbenzene** | **0.041** | 0.01 |
| 74-88-4 | Iodomethane | <0.1 | 0.1 |
| 78-83-1 | Isobutanol | <5 | 5 |
| 591-78-6 | 2-Hexanone | <0.5 | 0.5 |
| 126-98-7 | Methacrylonitrile | <0.5 | 0.5 |
| 75-09-2 | Methylene Chloride | <0.05 | 0.05 |
| 108-10-1 | **4-Methyl-2-Pentanone** | **0.65** | 0.5 |
| 107-12-0 | Propionitrile | <0.5 | 0.5 |
| 100-42-5 | Styrene | <0.01 | 0.01 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | <0.01 | 0.01 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.01 | 0.01 |
| 127-18-4 | Tetrachloroethene | <0.01 | 0.01 |
| 71-55-6 | 1,1,1-Trichloroethane | <0.01 | 0.01 |
| 79-00-5 | 1,1,2-Trichloroethane | <0.01 | 0.01 |
| 79-01-6 | Trichloroethene | <0.01 | 0.01 |
| 75-69-4 | Trichlorofluoromethane | <0.01 | 0.01 |
| 96-18-4 | 1,2,3-Trichloropropane | <0.01 | 0.01 |
| 108-88-3 | **Toluene** | **0.98** | 0.01 |
| 108-05-4 | Vinyl Acetate | <0.1 | 0.1 |
| 75-01-4 | **Vinyl Chloride** | **0.069** | 0.01 |
| 1330-20-7 | **Xylene (Total)** | **0.1** | 0.03 |



**End of Analytical Report**

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# QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 2500 | 2369 | 95 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 1250 | 1359 | 109 | 86-128 |

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# QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 2500 | 2494 | 100 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 1250 | 1342 | 107 | 89-122 |

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# QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 496 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 259 | 104 | 88-120 |

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# QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 50 | 48.8 | 98 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 25 | 25.6 | 102 | 87-117 |

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# QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 483 | 97 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 255 | 102 | 85-119 |

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# QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <50 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 495 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <50 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 274 | 110 | 88-120 |

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# QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |
| 11/09/04 | 224362 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/09/04 | 224362 | DWJ | 500 | 488 | 98 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 249 | 100 | 84-117 |

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# QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 514 | 103 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 254 | 102 | 86-117 |

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# QUALITY CONTROL REPORT

Parameter: **Cyanide, Total**
Method: Colorimetric, Automated W/Distillation USEPA-335.4 WATER
Units: mg/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/04/04 | 224109 | JLB | <0.005 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/04/04 | 224109 | JLB | 0.10 | 0.096 | 96 | 90-110 |
| 11/04/04 | 224109 | JLB | 0.05 | 0.048 | 96 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/04/04 | 100661 | JLB | <0.005 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/04/04 | 100661 | JLB | 0.10 | 0.102 | 102 | 90-110 |

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# QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <50 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 502 | 100 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <50 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 263 | 105 | 84-122 |

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# QUALITY CONTROL REPORT

Parameter: **Mercury, Total**
Method: Cold Vapor, Mercury USEPA-7470A WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/03/04 | 224101 | JLTR | <0.2 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/03/04 | 224101 | JLTR | 3.0 | 2.95 | 98 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/03/04 | 100805 | JLTR | <0.2 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/03/04 | 100805 | JLTR | 2.0 | 2.08 | 104 | 85-115 |

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# QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 501 | 100 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 253 | 101 | 87-114 |

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36650- 3

# QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/01/04 | 223995 | INR | <2.5 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/01/04 | 223995 | INR | 1000 | 972 | 97 | 89-106 |
| 11/01/04 | 223995 | INR | 1000 | 1012 | 101 | 89-106 |

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# QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/09/04 | 224362 | DWJ | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/09/04 | 224362 | DWJ | 2500 | 2587 | 103 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/09/04 | 100922 | DWJ | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/09/04 | 100922 | DWJ | 1250 | 1261 | 101 | 86-120 |

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# QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <10 |
| 11/09/04 | 224362 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/09/04 | 224362 | DWJ | 500 | 502 | 100 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/09/04 | 100922 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/09/04 | 100922 | DWJ | 250 | 248 | 99 | 86-114 |

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# QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/03/04 | 224338 | HLB | <1.0 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/03/04 | 224338 | HLB | 13.6 | 13.4 | 99 | 97-103 |

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# QUALITY CONTROL REPORT

Parameter: **Thallium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 2500 | 2485 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 1250 | 1256 | 100 | 67-131 |

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# QUALITY CONTROL REPORT

Parameter: **Tin, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/09/04 | 224362 | DWJ | <1000 |
| 11/13/04 | 224586 | DWJ | <1000 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/13/04 | 224586 | DWJ | 2500 | 2578 | 103 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/13/04 | 100922 | DWJ | <1000 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/13/04 | 100922 | DWJ | 1250 | 1215 | 97 | 75-127 |

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# QUALITY CONTROL REPORT

Parameter: **Vanadium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 488 | 98 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 253 | 101 | 87-119 |

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# QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 224247 | KLVM | <20 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 224247 | KLVM | 500 | 498 | 100 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 11/05/04 | 100922 | KLVM | <20 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 11/05/04 | 100922 | KLVM | 250 | 256 | 102 | 85-121 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 224344

Test Date: 11/09/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Acenaphthene | ND | 5.0 |
| Acenaphthylene | ND | 5.0 |
| Acetophenone | ND | 10 |
| 2-Acetylaminofluorene | ND | 50 |
| 4-Aminobiphenyl | ND | 10 |
| Aniline | ND | 5.0 |
| Anthracene | ND | 5.0 |
| Aramite | ND | 50 |
| Benzo (a) Anthracene | ND | 5.0 |
| Benzo (a) Pyrene | ND | 5.0 |
| Benzo (b) Fluoranthene | ND | 5.0 |
| Benzo (k) Fluoranthene | ND | 5.0 |
| Benzo (g,h,i,) Perylene | ND | 5.0 |
| Benzyl Alcohol | ND | 50 |
| 4-Bromophenyl Phenylether | ND | 5.0 |
| Butyl Benzyl Phthalate | ND | 5.0 |
| 2-sec-Butyl-4,6-dinitro-phenol | ND | 5.0 |
| 4-Chloroaniline | ND | 20 |
| Bis (2-Chloroethoxy)-Methane | ND | 5.0 |
| Bis (2-Chloroethyl) Ether | ND | 5.0 |
| Bis (2-Chloroisopropyl)-Ether | ND | 5.0 |
| 4-Chloro-3-Methylphenol | ND | 5.0 |
| 2-Chloronaphthalene | ND | 5.0 |
| 2-Chlorophenol | ND | 5.0 |
| 4-Chlorophenylphenyl-Ether | ND | 5.0 |
| Chrysene | ND | 5.0 |
| Di-n-Butylphthalate | ND | 5.0 |
| Di-n-Octylphthalate | ND | 5.0 |
| Dibenzo (a,h) Anthracene | ND | 5.0 |
| Dibenzofuran | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka Test Date: 11/09/04
Units: ug/L
Analytical Batch: 224344

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 3,3'-Dichlorobenzidine | ND | 20 |
| 2,4-Dichlorophenol | ND | 5.0 |
| 2,6-Dichlorophenol | ND | 5.0 |
| Diethylphthalate | ND | 5.0 |
| p-Dimethylaminoazobenzene | ND | 10 |
| 7,12-Dimethylbenz(a)anthr acene | ND | 10 |
| 3,3'-Dimethylbenzidine | ND | 50 |
| a,a-Dimethyl-phenethylamine | ND | 20 |
| 2,4-Dimethylphenol | ND | 5.0 |
| Dimethylphthalate | ND | 5.0 |
| 1,3-Dinitrobenzene | ND | 5.0 |
| 4,6-Dinitro-2-Methylphenol | ND | 20 |
| 2,4-Dinitrophenol | ND | 20 |
| 2,4-Dinitrotoluene | ND | 5.0 |
| 2,6-Dinitrotoluene | ND | 5.0 |
| Diphenylamine | ND | 10 |
| Bis (2-ethylhexyl)-Phthalate | ND | 5.0 |
| Ethyl Methacrylate | ND | 50 |
| Ethyl Methanesulfonate | ND | 10 |
| Fluoranthene | ND | 5.0 |
| Fluorene | ND | 5.0 |
| Hexachlorobenzene | ND | 5.0 |
| Hexachlorobutadiene | ND | 5.0 |
| Hexachlorocyclopentadiene | ND | 5.0 |
| Hexachloroethane | ND | 5.0 |
| Hexachloropropene | ND | 50 |
| Indeno (1,2,3-cd) Pyrene | ND | 5.0 |
| Isophorone | ND | 5.0 |
| Isosafrole | ND | 20 |
| Methapyrilene | ND | 10 |
| 3-Methylcholanthrene | ND | 50 |
| Methyl methanesulfonate | ND | 50 |
| Methylmethacrylate | ND | 50 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 224344

Test Date: 11/09/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2-Methylnaphthalene | ND | 5.0 |
| 2-Methylphenol | ND | 5.0 |
| 3-Methylphenol | ND | 5.0 |
| 4-Methylphenol | ND | 5.0 |
| Naphthalene | ND | 5.0 |
| 1,4-Naphthoquinone | ND | 1000 |
| 1-Naphthylamine | ND | 50 |
| 2-Naphthylamine | ND | 50 |
| 2-Nitroaniline | ND | 20 |
| 3-Nitroaniline | ND | 20 |
| 4-Nitroaniline | ND | 20 |
| Nitrobenzene | ND | 5.0 |
| 2-Nitrophenol | ND | 5.0 |
| 4-Nitrophenol | ND | 20 |
| 4-Nitroquinoline-1-oxide | ND | 500 |
| N-Nitroso-di-n-butylamine | ND | 20 |
| N-Nitroso-di-ethylamine | ND | 5.0 |
| N-Nitroso-di-methylamine | ND | 5.0 |
| N-Nitroso-di-Phenylamine | ND | 5.0 |
| N-Nitrosodi-n-Propylamine | ND | 5.0 |
| N-Nitrosomethylethylamine | ND | 5.0 |
| N-Nitrosomorpholine | ND | 20 |
| N-Nitrosopiperidine | ND | 20 |
| N-Nitrosopyrrolidine | ND | 20 |
| 5-Nitro-o-toluidine | ND | 10 |
| Pentachlorobenzene | ND | 5.0 |
| Pentachloroethane | ND | 50 |
| Pentachloronitrobenzene | ND | 20 |
| Pentachlorophenol | ND | 20 |
| Phenacetin | ND | 10 |
| Phenanthrene | ND | 5.0 |
| Phenol | ND | 5.0 |
| 1,4-Phenylenediamine | ND | 10 |
| 2-Picoline | ND | 5.0 |
| Pyrene | ND | 5.0 |
| Pyridine | ND | 10 |
| Pronamide | ND | 10 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 11/09/04
Units: ug/L
Analytical Batch: 224344

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Safrole | ND | 10 |
| 1,2,4,5-Tetrachloro-benzene | ND | 10 |
| 2,3,4,6-Tetrachlorophenol | ND | 50 |
| 2-Toluidine | ND | 10 |
| 1,2,4-Trichlorobenzene | ND | 5.0 |
| 2,4,5-Trichlorophenol | ND | 50 |
| 2,4,6-Trichlorophenol | ND | 5.0 |
| 1,3,5-Trinitrobenzene | ND | 20 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 11/11/04
Units: ug/L
Analytical Batch: 224545

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2,4-D | ND | 5.0 |
| 2,4,5-T | ND | 5.0 |
| 2,4,5-TP (Silvex) | ND | 5.0 |
| Dinoseb | ND | 0.50 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 11/19/04
Units: ug/L
QC Batch: 101070-101

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Chlorobenzilate | <10.0 | 10 |
| Diallate | <50.0 | 50 |
| Isodrin | <5.00 | 5.0 |
| Kepone | <5.00 | 5.0 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: QC ORGANOPHOS PEST'S 8270
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 11/09/04
Units: ug/L
Analytical Batch: 224344

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Dimethoate | ND | 20 |
| Disulfoton | ND | 20 |
| Famphur | ND | 20 |
| Methyl Parathion | ND | 20 |
| Parathion | ND | 20 |
| o-o-o-Triethyl-phosphorothioate | ND | 20 |
| Thionazin | ND | 20 |
| Phorate | ND | 20 |
| Sulfotepp | ND | 20 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Wenger Test Date: 11/09/04
Units: ug/L
Analytical Batch: 224471

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| PCB-1016 | ND | 0.10 |
| PCB-1221 | ND | 0.10 |
| PCB-1232 | ND | 0.10 |
| PCB-1242 | ND | 0.10 |
| PCB-1248 | ND | 0.10 |
| PCB-1254 | ND | 0.10 |
| PCB-1260 | ND | 0.10 |

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## QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 11/04/04
Units: ug/L
QC Batch: 101070-101

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Aldrin | <0.0100 | 0.010 |
| Alpha-BHC | <0.0100 | 0.010 |
| Beta-BHC | <0.0100 | 0.010 |
| Delta-BHC | <0.0100 | 0.010 |
| Lindane | <0.0100 | 0.010 |
| 4,4'-DDD | <0.0100 | 0.010 |
| 4,4'-DDE | <0.0100 | 0.010 |
| 4,4'-DDT | <0.0100 | 0.010 |
| Dieldrin | <0.0100 | 0.010 |
| Endosulfan I | <0.0100 | 0.010 |
| Endosulfan II | <0.0100 | 0.010 |
| Endosulfan Sulfate | <0.0200 | 0.020 |
| Endrin | <0.0100 | 0.010 |
| Endrin Aldehyde | <0.0100 | 0.010 |
| Heptachlor | <0.0100 | 0.010 |
| Heptachlor Epoxide | <0.0100 | 0.010 |
| Methoxychlor | <0.0100 | 0.010 |
| A-Chlordane | <0.0100 | 0.010 |
| G-Chlordane | <0.0100 | 0.010 |
| Toxaphene | <0.100 | 0.10 |

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## QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 11/04/04
Units: ug/L
QC Batch: 101070-101

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| Aldrin | 0.0800 | 0.0464 | 58 | 44 - 130 |
| Alpha-BHC | 0.0800 | 0.0606 | 76 | 38 - 136 |
| Beta-BHC | 0.0800 | 0.0665 | 83 | 52 - 125 |
| Delta-BHC | 0.0800 | 0.0674 | 84 | 54 - 144 |
| Lindane | 0.0800 | 0.0631 | 79 | 62 - 121 |
| 4,4'-DDD | 0.0800 | 0.0710 | 89 | 56 - 139 |
| 4,4'-DDE | 0.0800 | 0.0634 | 79 | 41 - 133 |
| 4,4'-DDT | 0.0800 | 0.0817 | 102 | 47 - 140 |
| Dieldrin | 0.0800 | 0.0675 | 84 | 58 - 135 |
| Endosulfan I | 0.0800 | 0.0479 | 60 | 35 - 116 |
| Endosulfan II | 0.0800 | 0.0523 | 65 | 46 - 134 |
| Endosulfan Sulfate | 0.0800 | 0.0753 | 94 | 56 - 132 |
| Endrin | 0.0800 | 0.0705 | 88 | 42 - 164 |
| Endrin Aldehyde | 0.0800 | 0.0521 | 65 | 45 - 131 |
| Heptachlor | 0.0800 | 0.0501 | 63 | 48 - 136 |
| Heptachlor Epoxide | 0.0800 | 0.0684 | 86 | 51 - 121 |
| Methoxychlor | 0.0800 | 0.0786 | 98 | 73 - 129 |
| A-Chlordane | 0.0800 | 0.0639 | 80 | 58 - 108 |
| G-Chlordane | 0.0800 | 0.0639 | 80 | 58 - 108 |
| Endrin Ketone | 0.0800 | 0.0644 | 81 | 70 - 130 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 11/04/04
Units: ug/L
Analytical Batch: 224158

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Alpha-BHC | ND | 1.0 |
| Beta-BHC | ND | 1.0 |
| Lindane | ND | 1.0 |
| Delta-BHC | ND | 1.0 |
| Heptachlor | ND | 1.0 |
| Aldrin | ND | 1.0 |
| Heptachlor Epoxide | ND | 1.0 |
| Endosulfan I | ND | 1.0 |
| 4,4'-DDE | ND | 1.0 |
| Dieldrin | ND | 1.0 |
| Endrin | ND | 1.0 |
| Endosulfan II | ND | 1.0 |
| 4,4'-DDD | ND | 1.0 |
| Endrin Aldehyde | ND | 1.0 |
| Endosulfan Sulfate | ND | 1.0 |
| 4,4'-DDT | ND | 1.0 |
| Toxaphene | ND | 1.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Semi-Volatile Organics USEPA-8270 Scan
Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 11/05/04
Units: ug/L
QC Batch: 100900-103

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Acenaphthene | <5.00 | 5.0 |
| Acenaphthylene | <5.00 | 5.0 |
| Anthracene | <5.00 | 5.0 |
| Aniline | <5.00 | 5.0 |
| Benzo (a) Anthracene | <5.00 | 5.0 |
| Benzo (a) Pyrene | <5.00 | 5.0 |
| Benzo (g,h,i,) Perylene | <5.00 | 5.0 |
| Benzyl Alcohol | <50.0 | 50 |
| Bis (2-Chloroethoxy)-Methane | <5.00 | 5.0 |
| Bis (2-Chloroethyl) Ether | <5.00 | 5.0 |
| Bis (2-Chloroisopropyl)-Ether | <5.00 | 5.0 |
| Bis (2-ethylhexyl)-Phthalate | <5.00 | 5.0 |
| 4-Bromophenyl Phenylether | <5.00 | 5.0 |
| Butyl Benzyl Phthalate | <5.00 | 5.0 |
| 4-Chloro-3-Methylphenol | <5.00 | 5.0 |
| 4-Chloroaniline | <5.00 | 5.0 |
| 2-Chloronaphthalene | <5.00 | 5.0 |
| 2-Chlorophenol | <5.00 | 5.0 |
| 4-Chlorophenylphenyl-Ether | <5.00 | 5.0 |
| Chrysene | <5.00 | 5.0 |
| Di-n-Butylphthalate | <5.00 | 5.0 |
| Di-n-Octylphthalate | <5.00 | 5.0 |
| Dibenzo (a,h) Anthracene | <5.00 | 5.0 |
| Dibenzofuran | <5.00 | 5.0 |
| 1,2-Dichlorobenzene | <5.00 | 5.0 |
| 1,3-Dichlorobenzene | <5.00 | 5.0 |
| 1,4-Dichlorobenzene | <5.00 | 5.0 |
| 3,3'-Dichlorobenzidine | <20.0 | 20 |
| 2,4-Dichlorophenol | <5.00 | 5.0 |
| Diethylphthalate | <5.00 | 5.0 |
| Dimethylphthalate | <5.00 | 5.0 |
| 2,4-Dimethylphenol | <5.00 | 5.0 |
| 4,6-Dinitro-2-Methylphenol | <5.00 | 5.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Semi-Volatile Organics USEPA-8270 Scan
Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 11/05/04
Units: ug/L
QC Batch: 100900-103

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2,4-Dinitrophenol | <5.00 | 5.0 |
| 2,4-Dinitrotoluene | <5.00 | 5.0 |
| 2,6-Dinitrotoluene | <5.00 | 5.0 |
| Fluoranthene | <5.00 | 5.0 |
| Fluorene | <5.00 | 5.0 |
| Hexachlorobenzene | <5.00 | 5.0 |
| Hexachlorobutadiene | <5.00 | 5.0 |
| Hexachlorocyclopentadiene | <5.00 | 5.0 |
| Hexachloroethane | <5.00 | 5.0 |
| Indeno (1,2,3-cd) Pyrene | <5.00 | 5.0 |
| Isophorone | <5.00 | 5.0 |
| 3-Methylphenol | <5.00 | 5.0 |
| 2-Methylnaphthalene | <5.00 | 5.0 |
| 2-Methylphenol | <5.00 | 5.0 |
| 4-Methylphenol | <5.00 | 5.0 |
| N-Nitrosodi-n-Propylamine | <5.00 | 5.0 |
| N-Nitroso-di-Phenylamine | <5.00 | 5.0 |
| Naphthalene | <5.00 | 5.0 |
| 2-Nitroaniline | <5.00 | 5.0 |
| 3-Nitroaniline | <5.00 | 5.0 |
| 4-Nitroaniline | <5.00 | 5.0 |
| Nitrobenzene | <5.00 | 5.0 |
| 2-Nitrophenol | <5.00 | 5.0 |
| 4-Nitrophenol | <5.00 | 5.0 |
| Pentachlorophenol | <5.00 | 5.0 |
| Phenanthrene | <5.00 | 5.0 |
| Phenol | <5.00 | 5.0 |
| Pyrene | <5.00 | 5.0 |
| 1,2,4-Trichlorobenzene | <5.00 | 5.0 |
| 2,4,5-Trichlorophenol | <5.00 | 5.0 |
| 2,4,6-Trichlorophenol | <5.00 | 5.0 |
| 2,3,4,6-Tetrachlorophenol | <50.0 | 50 |
| Pyridine | <10.0 | 10 |
| Benzo (b) Fluoranthene | <5.00 | 5.0 |
| Benzo (k) Fluoranthene | <5.00 | 5.0 |

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Semi-Volatile Organics USEPA-8270 Scan
Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 11/05/04
Units: ug/L
QC Batch: 100900-103

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| Acenaphthene | 10 | 6.83 | 68 | 39 - 109 |
| 1,4-Dichlorobenzene | 10 | 6.39 | 64 | 36 - 103 |
| 2,4-Dinitrotoluene | 10 | 8.06 | 81 | 42 - 119 |
| Naphthalene | 10 | 6.86 | 69 | 49 - 116 |
| N-Nitrosodi-n-Propylamine | 10 | 7.75 | 78 | 45 - 124 |
| Pyrene | 10 | 8.00 | 80 | 46 - 114 |
| 1,2,4-Trichlorobenzene | 10 | 6.44 | 64 | 42 - 103 |
| 4-Chloro-3-Methylphenol | 20 | 12.2 | 61 | 42 - 121 |
| 2-Chlorophenol | 20 | 11.8 | 59 | 40 - 122 |
| 4-Nitrophenol | 20 | 7.05 | 35 | 11 - 68 |
| Pentachlorophenol | 20 | 12.3 | 62 | 39 - 112 |
| Phenol | 20 | 6.84 | 34 | 19 - 55 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 11/12/04
Units: ug/L
QC Batch: 101062-104

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2,4-D | <5.00 | 5.0 |
| 2,4,5-T | <5.00 | 5.0 |
| Dinoseb | <0.500 | 0.50 |
| 2,4,5-TP (Silvex) | <5.00 | 5.0 |

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 11/12/04
Units: ug/L
QC Batch: 101062-104

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| 2,4-D | 2.50 | 3.54 | 142 | 23 - 151 |
| 2,4,5-T | 0.25 | 0.360 | **144** | 41 - 118 |
| Dinoseb | 1.25 | 0.562 | 45 | 10 - 75 |
| 2,4,5-TP (Silvex) | 0.25 | 0.340 | **136** | 22 - 135 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 11/01/04
Units: ug/L
QC Batch: 100615-101

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Dichlorodifluoromethane | <1.00 | 1.0 |
| Chloromethane | <1.00 | 1.0 |
| Vinyl Chloride | <1.00 | 1.0 |
| Bromomethane | <1.00 | 1.0 |
| Chloroethane | <1.00 | 1.0 |
| Trichlorofluoromethane | <1.00 | 1.0 |
| Acrolein | <5.00 | 5.0 |
| 1,1-Dichloroethylene | <1.00 | 1.0 |
| Iodomethane | <10.0 | 10 |
| Carbon Disulfide | <5.00 | 5.0 |
| Acetone | <50.0 | 50 |
| Allyl Chloride | <10.0 | 10 |
| Methylene Chloride | <5.00 | 5.0 |
| Acrylonitrile | <1.00 | 1.0 |
| 1,1-Dichloroethane | <1.00 | 1.0 |
| Vinyl Acetate | <10.0 | 10 |
| 1,2-Dichloroethylene-(total) | <2.00 | 2.0 |
| 2-Butanone | <50.0 | 50 |
| Chloroform | <1.00 | 1.0 |
| 1,1,1-Trichloroethane | <1.00 | 1.0 |
| Carbon Tetrachloride | <1.00 | 1.0 |
| Benzene | <1.00 | 1.0 |
| 1,2-Dichloroethane | <1.00 | 1.0 |
| Trichloroethene | <1.00 | 1.0 |
| 1,2-Dichloropropane | <1.00 | 1.0 |
| Dibromomethane | <1.00 | 1.0 |
| Dichlorobromomethane | <1.00 | 1.0 |
| cis-1,3-Dichloropropene | <1.00 | 1.0 |
| 4-Methyl-2-Pentanone | <50.0 | 50 |
| Toluene | <1.00 | 1.0 |
| trans-1,3-Dichloropropene | <1.00 | 1.0 |
| 1,1,2-Trichloroethane | <1.00 | 1.0 |
| Tetrachloroethene | <1.00 | 1.0 |
| 2-Hexanone | <50.0 | 50 |
| Chlorodibromomethane | <1.00 | 1.0 |
| 1,2-Dibromoethane | <10.0 | 10 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Units: ug/L
QC Batch: 100615-101

Test Date: 11/01/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Chlorobenzene | <1.00 | 1.0 |
| 1,1,1,2-Tetrachloroethane | <1.00 | 1.0 |
| Ethylbenzene | <1.00 | 1.0 |
| Xylene (Total) | <3.00 | 3.0 |
| Styrene | <1.00 | 1.0 |
| Bromoform | <1.00 | 1.0 |
| 1,1,2,2-Tetrachloroethane | <1.00 | 1.0 |
| 1,2,3-Trichloropropane | <1.00 | 1.0 |
| 1,2-Dibromo-3-chloropropane | <1.00 | 1.0 |
| Acetonitrile | <10.0 | 10 |
| Propionitrile | <50.0 | 50 |
| Methacrylonitrile | <50.0 | 50 |
| Isobutanol | <500 | 500 |
| 1,4-Dioxane | <300 | 300 |
| trans-1,4-Dichloro-2-butene | <5.00 | 5.0 |
| 2-Chloro-1,3-butadiene | <50.0 | 50 |

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36650- 3

## QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 11/01/04
Units: ug/L
QC Batch: 100615-101

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| Benzene | 40.0 | 40.2 | 101 | 79 - 120 |
| Chlorobenzene | 40.0 | 38.6 | 97 | 79 - 122 |
| 1,1-Dichloroethylene | 40.0 | 40.5 | 101 | 72 - 126 |
| Toluene | 40.0 | 40.7 | 102 | 79 - 126 |
| Trichloroethene | 40.0 | 41.3 | 103 | 71 - 127 |

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36650- 3

# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction USEPA-8081A
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 11/04/04
Units: ug/L
Analytical Batch: 224158

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Alpha-BHC | ND | 0.010 |
| Beta-BHC | ND | 0.010 |
| Lindane | ND | 0.010 |
| Delta-BHC | ND | 0.010 |
| Heptachlor | ND | 0.010 |
| Aldrin | ND | 0.010 |
| Heptachlor Epoxide | ND | 0.010 |
| G-Chlordane | ND | 0.010 |
| A-Chlordane | ND | 0.010 |
| Endosulfan I | ND | 0.050 |
| 4,4'-DDE | ND | 0.020 |
| Dieldrin | ND | 0.020 |
| Endrin | ND | 0.020 |
| Endosulfan II | ND | 0.050 |
| 4,4'-DDD | ND | 0.020 |
| Endrin Aldehyde | ND | 0.020 |
| Endosulfan Sulfate | ND | 0.050 |
| 4,4'-DDT | ND | 0.020 |
| Methoxychlor | ND | 0.50 |
| Toxaphene | ND | 0.17 |

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**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 | SUR-3 | SUR-4 |
|---|---|---|---|---|---|
| Control Limits: | | 79-124 | 75-128 | 87-113 | 70-121 |
| Sample # / ID | Batch | % R | % R | % R | % R |
| MPB-01 | 100615-101 | 104 | 104 | 104 | 94 |
| LFB-01 | 100615-101 | 97 | 105 | 101 | 105 |
| 375055 | 100615-101 | 104 | 98 | 105 | 102 |

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36650- 3

**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Organochlorine Pesticides & PCBs USEPA-608 WATER

Surrogate Compound List

SUR-1: Tetrachloro-m-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 45-112 | 31-114 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 224158 | 97 | 89 |

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**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Organochlorine Pesticides & PCBs USEPA-8081A WATER

Surrogate Compound List

SUR-1: Tetrachloro-m-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 36-123 | 14-103 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 224158 | 97 | 89 |
| MPB-01 | 101070-101 | 80 | 85 |
| LFB-01 | 101070-101 | 78 | 85 |
| 375055 | 101070-101 | 87 | 21 |

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36650- 3

**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Semi-Volatiles GC/MS USEPA-8270C WATER

Surrogate Compound List

| | | | |
|---|---|---|---|
| SUR-1: | 2-Fluorobiphenyl | SUR-4: | d6-Phenol |
| SUR-2: | 2-Fluorophenol | SUR-5: | o-Terphenyl |
| SUR-3: | d5-Nitrobenzene | SUR-6: | 2,4,6-Tribromophenol |

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 | SUR-3 | SUR-4 | SUR-5 | SUR-6 |
|---|---|---|---|---|---|---|---|
| Control Limits: | | 37-123 | 16- 69 | 26-116 | 11- 49 | 30-119 | 26-118 |
| Sample # / ID | Batch | % R | % R | % R | % R | % R | % R |
| MPB-01 | 100900-103 | 75 | 49 | 66 | 32 | 87 | 81 |
| LFB-01 | 100900-103 | 83 | 52 | 69 | 39 | 88 | 80 |
| 375055 | 100900-103 | 99 | 58 | 104 | 42 | 110 | 98 |

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**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Chlorinated Herbicides by GC-ECD USEPA-8151A WATER

Surrogate Compound List

SUR-1: 2,4-Dichlorophenylacetic

% R = Percent Recovery

| Compounds: | SUR-1 |
|---|---|
| Control Limits: | 26-135 |

| Sample # / ID | Batch | % R |
|---|---|---|
| BLK-01 | 224545 | 8 |
| MPB-01 | 101062-104 | 77 |
| LFB-01 | 101062-104 | 97 |
| 375055 | 101062-104 | 94 |

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36650- 3

**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Polychlorinated Biphenyls by GC USEPA-8082 WATER

Surrogate Compound List

SUR-1: Tetrachloro-meta-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 36-114 | 12-120 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 224471 | 87 | 73 |
| 375055 | 100583-101 | 50 | 37 |

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**TriMatrix Laboratories, Inc.**

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# Chain of Custody Record

COC No. SCL003

Page 1 of 1

For Lab Use Only
Cart: 2
VOC Rack/Tray: 149-B (Pres) 485-W (Un-Pres)
Receipt Log No.: 7-5
Project Chemist: RK tmt
Laboratory Project No.: 36656-3

Client Name: EQ/CTI
Address:
Phone: 313.300.7401
Fax:

Project Name: ARL
Client Project No. / P.O. No.:
Invoice To: EQ
Client / Other (comments)
Contact/Report To: S. Haton / T. Zick

Analyses Requested: App IX; VOC; VOC

Container Type (corresponds to Container Packing List): A E F B D A

PRESERVATIVES
A NONE pH~7
B $HNO_3$ pH<2
C $H_2SO_4$ pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

| Test Group | Matrix Code | Laboratory Sample Number | | Sample ID | Cooler ID | Sample Date | Sample Time | COMP | GRAB | Matrix | 2 | 5 | 9 | 6 | 10 | | | | | | Total | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02 | WG | 375055 | 1 | ARL 3 (A-F) | | 10/28 | 10:35-10:50 | | ✓ | W | 6 | | | | | | | | | | | App. IX |
| | | | 2 | ARL 3 G | | | 10:55 | | ✓ | W | | 1 | | | | | | | | | | + O&G |
| | | | 3 | ARL 3 H | | | 11:01 | | ✓ | W | | | 1 | | | | | | | | | + TSS |
| | | | 4 | ARL 3 I | | | 11:03 | | ✓ | W | | | | 1 | | | | | | | | |
| | | | 5 | ARL 3 J,K | | | 11:05 | | ✓ | W | | | | | 2 | | | | | | | |
| | | | 6 | ARL 3 L,M | | | 11:08 | | ✓ | W | | | | | | 2 | | | | | | |
| | | | 7 | | | | | | | | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | | | | | | |

Sampled By (print): Terri Zick
Sampler's Signature: [signature]
Company: CTI & Assoc.

How Shipped? Hand Carrier Fed-X
Tracking No.

Comments: Appendix IX parameters
Oil & Grease + TSS
No O+G Containers

| 1. Relinquished By | Date | Time | 2. Relinquished By | Date | Time | 3. Relinquished By | Date | Time |
|---|---|---|---|---|---|---|---|---|
| [signature] | 10/28/04 | 12:30 pm | | | | | | |

| 1. Received By | Date | Time | 2. Received By | Date | Time | 3. Received For Lab By | Date | Time |
|---|---|---|---|---|---|---|---|---|
| | | | | | | [signature] | 10-29-04 | 08:35 |

TriMatrix
Laboratories, Inc.

November 10, 2004

EQ-Environmental Quality Company
Attn: Ms. Terri Zick
CTI & Associates, Inc.
12482 Emerson Drive
Brighton, MI 48116

**RE: Arkona Road Leachate**
**Submittal Number: 36650-2**

Dear Ms. Terri Zick:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 5, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 71.

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**STATEMENT OF DATA QUALIFICATIONS**

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

**Note:** This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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**CASE NARRATIVE**

Analysis: **Semi-Volatiles 8270C**
Semi-Volatiles GC/MS
WATER USEPA-8270C

**Narrative:**

Chromatographic limitations of this method prevent 4-methylphenol from being resolved from 3-methylphenol. Because of this, the reported result could actually be 4-methylphenol, 3-methylphenol, or a combination of both isomers.

**Sample(s) Narrated:** 372367 ARL2 (a-k)



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# ANALYTICAL REPORT

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Sampled: 10/04/04 @ 00:00
Sampler: T. Zick
Received: 10/05/04 @ 08:55

Submittal #: **36650-2**
Submittal: October 4, 2004 Sample

Sample ID: **ARL2 (a-k)**
Sample #: **372367**
Matrix: Leachate

Percent Solids: n/a

| Parameter | Analytical Result | Reporting Limit | Unit | Analysis Date | Chem | Reference Citation |
|---|---|---|---|---|---|---|
| Cyanide, Total | 0.008 | 0.005 | mg/L | 10/12/04 | JLB | USEPA-335.2 |
| Sulfide | <1.0 | 1.0 | mg/L | 10/09/04 | HLB | 376.1/4500 S2-F |
| Residue, Suspended | 25 | 8 | mg/L | 10/06/04 | INR | 160.2/SM 2540 D |
| Antimony, Total | <0.1 | 0.1 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Arsenic, Total | <0.1 | 0.1 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Barium, Total | 0.94 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Beryllium, Total | <0.01 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Cadmium, Total | <0.01 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Chromium, Total | 0.051 | 0.05 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Cobalt, Total | <0.01 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Copper, Total | <0.01 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Lead, Total | 0.053 | 0.05 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Mercury, Total | <0.0002 | 0.0002 | mg/L | 10/19/04 | DWJ | USEPA-245.1 |
| Nickel, Total | 0.071 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Selenium, Total | <0.1 | 0.1 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Silver, Total | <0.01 | 0.01 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Thallium, Total | <0.1 | 0.1 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Tin, Total | <1 | 1 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Vanadium, Total | <0.1 | 0.1 | mg/L | 10/12/04 | DWJ | EPA-200.7 |
| Zinc, Total | 0.16 | 0.02 | mg/L | 10/12/04 | DWJ | EPA-200.7 |



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**ANALYTICAL REPORT**

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/08/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-3510C |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/11/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 99937 -108 |
| Sample #: | **372367** | Anal. Batch: | 222797 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 83-32-9 | Acenaphthene | <0.005 | 0.005 |
| 208-96-8 | Acenaphthylene | <0.005 | 0.005 |
| 98-86-2 | Acetophenone | <0.01 | 0.01 |
| 53-96-3 | 2-Acetylaminofluorene | <0.05 | 0.05 |
| 92-67-1 | 4-Aminobiphenyl | <0.01 | 0.01 |
| 62-53-3 | Aniline | <0.005 | 0.005 |
| 120-12-7 | Anthracene | <0.005 | 0.005 |
| 140-57-8 | Aramite | <0.05 | 0.05 |
| 56-55-3 | Benzo (a) Anthracene | <0.005 | 0.005 |
| 50-32-8 | Benzo (a) Pyrene | <0.005 | 0.005 |
| 205-99-2 | Benzo (b) Fluoranthene | <0.005 | 0.005 |
| 207-08-9 | Benzo (k) Fluoranthene | <0.005 | 0.005 |
| 191-24-2 | Benzo (g,h,i,) Perylene | <0.005 | 0.005 |
| 100-51-6 | Benzyl Alcohol | <0.05 | 0.05 |
| 101-55-3 | 4-Bromophenyl Phenylether | <0.005 | 0.005 |
| 85-68-7 | Butyl Benzyl Phthalate | <0.005 | 0.005 |
| 88-85-7 | 2-sec-Butyl-4,6-dinitro-phenol | <0.005 | 0.005 |
| 106-47-8 | 4-Chloroaniline | <0.02 | 0.02 |
| 111-91-1 | Bis (2-Chloroethoxy)-Methane | <0.005 | 0.005 |
| 111-44-4 | Bis (2-Chloroethyl) Ether | <0.005 | 0.005 |
| 108-60-1 | Bis (2-Chloroisopropyl)-Ether | <0.005 | 0.005 |
| 59-50-7 | 4-Chloro-3-Methylphenol | <0.005 | 0.005 |
| 91-58-7 | 2-Chloronaphthalene | <0.005 | 0.005 |
| 95-57-8 | 2-Chlorophenol | <0.005 | 0.005 |
| 7005-72-3 | 4-Chlorophenylphenyl-Ether | <0.005 | 0.005 |
| 218-01-9 | Chrysene | <0.005 | 0.005 |
| 84-74-2 | Di-n-Butylphthalate | <0.005 | 0.005 |
| 117-84-0 | Di-n-Octylphthalate | <0.005 | 0.005 |
| 53-70-3 | Dibenzo (a,h) Anthracene | <0.005 | 0.005 |



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**ANALYTICAL REPORT**

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/08/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-3510C |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/11/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 99937 -108 |
| Sample #: | **372367** | Anal. Batch: | 222797 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 132-64-9 | Dibenzofuran | <0.005 | 0.005 |
| 95-50-1 | 1,2-Dichlorobenzene | <0.005 | 0.005 |
| 541-73-1 | 1,3-Dichlorobenzene | <0.005 | 0.005 |
| 106-46-7 | 1,4-Dichlorobenzene | <0.005 | 0.005 |
| 91-94-1 | 3,3'-Dichlorobenzidine | <0.02 | 0.02 |
| 120-83-2 | 2,4-Dichlorophenol | <0.005 | 0.005 |
| 87-65-0 | 2,6-Dichlorophenol | <0.005 | 0.005 |
| 84-66-2 | Diethylphthalate | <0.005 | 0.005 |
| 60-11-7 | p-Dimethylaminoazobenzene | <0.01 | 0.01 |
| 57-97-6 | 7,12-Dimethylbenz(a)anthr acene | <0.01 | 0.01 |
| 119-93-7 | 3,3'-Dimethylbenzidine | <0.05 | 0.05 |
| 122-09-8 | a,a-Dimethyl-phenethylamine | <0.02 | 0.02 |
| 105-67-9 | **2,4-Dimethylphenol** | **0.034** | 0.005 |
| 131-11-3 | Dimethylphthalate | <0.005 | 0.005 |
| 99-65-0 | 1,3-Dinitrobenzene | <0.005 | 0.005 |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | <0.02 | 0.02 |
| 51-28-5 | 2,4-Dinitrophenol | <0.02 | 0.02 |
| 121-14-2 | 2,4-Dinitrotoluene | <0.005 | 0.005 |
| 606-20-2 | 2,6-Dinitrotoluene | <0.005 | 0.005 |
| 122-39-4 | Diphenylamine | <0.01 | 0.01 |
| 117-81-7 | Bis (2-ethylhexyl)-Phthalate | <0.005 | 0.005 |
| 97-63-2 | Ethyl Methacrylate | <0.05 | 0.05 |
| 62-50-0 | Ethyl Methanesulfonate | <0.01 | 0.01 |
| 206-44-0 | Fluoranthene | <0.005 | 0.005 |
| 86-73-7 | Fluorene | <0.005 | 0.005 |
| 118-74-1 | Hexachlorobenzene | <0.005 | 0.005 |
| 87-68-3 | Hexachlorobutadiene | <0.005 | 0.005 |
| 77-47-4 | Hexachlorocyclopentadiene | <0.005 | 0.005 |
| 67-72-1 | Hexachloroethane | <0.005 | 0.005 |



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**ANALYTICAL REPORT**

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Submittal #: **36650-2**
Submittal: October 4, 2004 Sample

Sample ID: **ARL2 (a-k)**
Sample #: **372367**
Matrix: Leachate
Unit: mg/L

Sampled: 10/04/04 @ 00:00
Sampler: T. Zick
Received: 10/05/04 @ 08:55
Prepared: 10/08/04 by DJM
Prep. Method: USEPA-3510C
Analyzed: 10/11/04 by JMK1
Anal. Method: USEPA-8270C
QC Batch: 99937 -108
Anal. Batch: 222797
Percent Solids: n/a
Dilution Factor: 1

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 1888-71-7 | Hexachloropropene | <0.05 | 0.05 |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | <0.005 | 0.005 |
| 78-59-1 | Isophorone | <0.005 | 0.005 |
| 120-58-1 | Isosafrole | <0.02 | 0.02 |
| 91-80-5 | Methapyrilene | <0.01 | 0.01 |
| 56-49-5 | 3-Methylcholanthrene | <0.05 | 0.05 |
| 66-27-3 | Methyl methanesulfonate | <0.05 | 0.05 |
| 80-62-6 | Methylmethacrylate | <0.05 | 0.05 |
| 91-57-6 | 2-Methylnaphthalene | <0.005 | 0.005 |
| 95-48-7 | **2-Methylphenol** | **0.029** | 0.005 |
| 108-39-4 | 3-Methylphenol | <0.005 | 0.005 |
| 106-44-5 | **4-Methylphenol** | **0.2** | 0.005 |
| 91-20-3 | Naphthalene | <0.005 | 0.005 |
| 130-15-4 | 1,4-Naphthoquinone | <1 | 1 |
| 134-32-7 | 1-Naphthylamine | <0.05 | 0.05 |
| 91-59-8 | 2-Naphthylamine | <0.05 | 0.05 |
| 88-74-4 | 2-Nitroaniline | <0.02 | 0.02 |
| 99-09-2 | 3-Nitroaniline | <0.02 | 0.02 |
| 100-01-6 | 4-Nitroaniline | <0.02 | 0.02 |
| 98-95-3 | Nitrobenzene | <0.005 | 0.005 |
| 88-75-5 | 2-Nitrophenol | <0.005 | 0.005 |
| 100-02-7 | 4-Nitrophenol | <0.02 | 0.02 |
| 56-57-5 | 4-Nitroquinoline-1-oxide | <0.5 | 0.5 |
| 924-16-3 | N-Nitroso-di-n-butylamine | <0.02 | 0.02 |
| 55-18-5 | N-Nitroso-di-ethylamine | <0.005 | 0.005 |
| 62-75-9 | N-Nitroso-di-methylamine | <0.005 | 0.005 |
| 86-30-6 | **N-Nitroso-di-Phenylamine** | **0.017** | 0.005 |
| 621-64-7 | N-Nitrosodi-n-Propylamine | <0.005 | 0.005 |
| 10595-95-6 | N-Nitrosomethylethylamine | <0.005 | 0.005 |
| 59-89-2 | N-Nitrosomorpholine | <0.02 | 0.02 |
| 100-75-4 | N-Nitrosopiperidine | <0.02 | 0.02 |
| 930-55-2 | N-Nitrosopyrrolidine | <0.02 | 0.02 |
| 99-55-8 | 5-Nitro-o-toluidine | <0.01 | 0.01 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/08/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-3510C |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/11/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 99937 -108 |
| Sample #: | **372367** | Anal. Batch: | 222797 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 608-93-5 | Pentachlorobenzene | <0.005 | 0.005 |
| 76-01-7 | Pentachloroethane | <0.05 | 0.05 |
| 82-68-8 | Pentachloronitrobenzene | <0.02 | 0.02 |
| 87-86-5 | Pentachlorophenol | <0.02 | 0.02 |
| 62-44-2 | Phenacetin | <0.01 | 0.01 |
| 85-01-8 | Phenanthrene | <0.005 | 0.005 |
| 108-95-2 | **Phenol** | **0.017** | 0.005 |
| 106-50-3 | 1,4-Phenylenediamine | <0.01 | 0.01 |
| 109-06-8 | **2-Picoline** | **0.0074** | 0.005 |
| 129-00-0 | Pyrene | <0.005 | 0.005 |
| 110-86-1 | Pyridine | <0.01 | 0.01 |
| 23950-58-5 | Pronamide | <0.01 | 0.01 |
| 94-59-7 | Safrole | <0.01 | 0.01 |
| 95-94-3 | 1,2,4,5-Tetrachloro-benzene | <0.01 | 0.01 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | <0.05 | 0.05 |
| 95-53-4 | **2-Toluidine** | **0.2** | 0.01 |
| 120-82-1 | 1,2,4-Trichlorobenzene | <0.005 | 0.005 |
| 95-95-4 | 2,4,5-Trichlorophenol | <0.05 | 0.05 |
| 88-06-2 | 2,4,6-Trichlorophenol | <0.005 | 0.005 |
| 99-35-4 | 1,3,5-Trinitrobenzene | <0.02 | 0.02 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/08/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-3510C |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/11/04 by JMK1 |
| | | Anal. Method: | USEPA-8270C |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 99937 -108 |
| Sample #: | **372367** | Anal. Batch: | 222797 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Organophosphorus Pesticides by USEPA-8270 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 60-51-5 | Dimethoate | <0.02 | 0.02 |
| 298-04-4 | Disulfoton | <0.02 | 0.02 |
| 52-85-7 | Famphur | <0.02 | 0.02 |
| 298-00-0 | Methyl Parathion | <0.02 | 0.02 |
| 56-38-2 | Parathion | <0.02 | 0.02 |
| 126-68-1 | o-o-o-Triethyl-phosphorothioate | <0.02 | 0.02 |
| 297-97-2 | Thionazin | <0.02 | 0.02 |
| 298-02-2 | Phorate | <0.02 | 0.02 |
| 3689-24-5 | Sulfotepp | <0.02 | 0.02 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/06/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-3510C |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/12/04 by JLRM |
| | | Anal. Method: | USEPA-8082 |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 99954 -106 |
| Sample #: | **372367** | Anal. Batch: | 222811 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | PCB Scan USEPA Method 8082 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 12674-11-2 | PCB-1016 | <0.0002 | 0.0002 |
| 11104-28-2 | PCB-1221 | <0.0002 | 0.0002 |
| 11141-16-5 | PCB-1232 | <0.0002 | 0.0002 |
| 53469-21-9 | PCB-1242 | <0.0002 | 0.0002 |
| 12672-29-6 | PCB-1248 | <0.0002 | 0.0002 |
| 11097-69-1 | PCB-1254 | <0.0002 | 0.0002 |
| 11096-82-5 | PCB-1260 | <0.0002 | 0.0002 |
| 37324-23-5 | PCB-1262 | <0.0002 | 0.0002 |
| 11100-14-4 | PCB-1268 | <0.0002 | 0.0002 |



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**ANALYTICAL REPORT**

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/06/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-3510C |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/20/04 by MSN |
| | | Anal. Method: | USEPA-8081A |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 100328 -106 |
| Sample #: | **372367** | Anal. Batch: | 223306 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Appendix IX Pesticides USEPA 8081 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 309-00-2 | Aldrin | <0.001 | 0.001 |
| 319-84-6 | Alpha-BHC | <0.001 | 0.001 |
| 319-85-7 | Beta-BHC | <0.001 | 0.001 |
| 58-89-9 | Lindane | <0.001 | 0.001 |
| 319-86-8 | Delta-BHC | <0.001 | 0.001 |
| 5103-71-9 | A-Chlordane | <0.001 | 0.001 |
| 5103-74-2 | G-Chlordane | <0.001 | 0.001 |
| 510-15-6 | Chlorobenzilate | <0.01 | 0.01 |
| 50-29-3 | 4,4'-DDT | <0.001 | 0.001 |
| 72-55-9 | 4,4'-DDE | <0.001 | 0.001 |
| 72-54-8 | 4,4'-DDD | <0.001 | 0.001 |
| 2303-16-4 | Diallate | <0.05 | 0.05 |
| 60-57-1 | Dieldrin | <0.001 | 0.001 |
| 959-98-8 | Endosulfan I | <0.001 | 0.001 |
| 33213-65-9 | Endosulfan II | <0.001 | 0.001 |
| 1031-07-8 | Endosulfan Sulfate | <0.001 | 0.001 |
| 72-20-8 | Endrin | <0.001 | 0.001 |
| 7421-93-4 | Endrin Aldehyde | <0.001 | 0.001 |
| 76-44-8 | Heptachlor | <0.001 | 0.001 |
| 1024-57-3 | Heptachlor Epoxide | <0.001 | 0.001 |
| 465-73-6 | Isodrin | <0.005 | 0.005 |
| 143-50-0 | Kepone | <0.005 | 0.005 |
| 72-43-5 | Methoxychlor | <0.001 | 0.001 |
| 8001-35-2 | Toxaphene | <0.001 | 0.001 |



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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | 10/07/04 by DJM |
| Submittal #: | **36650-2** | Prep. Method: | USEPA-8151A |
| Submittal: | October 4, 2004 Sample | Analyzed: | 11/02/04 by MSN |
| | | Anal. Method: | USEPA-8151A |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 99765 -107 |
| Sample #: | **372367** | Anal. Batch: | 224068 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 1 |

| CAS Number | Appendix IX Herbicides USEPA 8151 | Analytical Result | Reporting Limit |
|---|---|---|---|
| 94-75-7 | 2,4-D | <0.005 | 0.005 |
| 93-76-5 | 2,4,5-T | <0.005 | 0.005 |
| 93-72-1 | 2,4,5-TP (Silvex) | <0.005 | 0.005 |
| 88-85-7 | Dinoseb | <0.005 | 0.005 |



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**ANALYTICAL REPORT**

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | n/a |
| Submittal #: | **36650-2** | Prep. Method: | n/a |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/14/04 by JDM |
| | | Anal. Method: | USEPA-8260B |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 100046 -114 |
| Sample #: | **372367** | Anal. Batch: | 222982 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 5 |

| CAS Number | Volatile Organics-8260B Appendix IX List | Analytical Result | Reporting Limit |
|---|---|---|---|
| 67-64-1 | **Acetone** | **0.85** | 0.25 |
| 75-05-8 | Acetonitrile | <0.05 | 0.05 |
| 107-02-8 | Acrolein | <0.025 | 0.025 |
| 107-13-1 | Acrylonitrile | <0.005 | 0.005 |
| 107-05-1 | Allyl Chloride | <0.05 | 0.05 |
| 71-43-2 | **Benzene** | **0.0064** | 0.005 |
| 75-27-4 | Dichlorobromomethane | <0.005 | 0.005 |
| 75-25-2 | Bromoform | <0.005 | 0.005 |
| 74-83-9 | Bromomethane | <0.005 | 0.005 |
| 78-93-3 | **2-Butanone** | **0.65** | 0.25 |
| 75-15-0 | Carbon Disulfide | <0.025 | 0.025 |
| 56-23-5 | Carbon Tetrachloride | <0.005 | 0.005 |
| 108-90-7 | **Chlorobenzene** | **0.04** | 0.005 |
| 75-00-3 | **Chloroethane** | **0.016** | 0.005 |
| 67-66-3 | Chloroform | <0.005 | 0.005 |
| 74-87-3 | Chloromethane | <0.005 | 0.005 |
| 126-99-8 | 2-Chloro-1,3-butadiene | <0.25 | 0.25 |
| 124-48-1 | Chlorodibromomethane | <0.005 | 0.005 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | <0.005 | 0.005 |
| 106-93-4 | 1,2-Dibromoethane | <0.05 | 0.05 |
| 74-95-3 | Dibromomethane | <0.005 | 0.005 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | <0.025 | 0.025 |
| 75-71-8 | Dichlorodifluoromethane | <0.005 | 0.005 |
| 75-34-3 | **1,1-Dichloroethane** | **0.057** | 0.005 |
| 107-06-2 | **1,2-Dichloroethane** | **0.011** | 0.005 |
| 75-35-4 | 1,1-Dichloroethylene | <0.005 | 0.005 |
| 540-59-0 | 1,2-Dichloroethylene-(total) | <0.01 | 0.01 |
| 78-87-5 | 1,2-Dichloropropane | <0.005 | 0.005 |
| 10061-01-5 | cis-1,3-Dichloropropene | <0.005 | 0.005 |
| 10061-02-6 | trans-1,3-Dichloropropene | <0.005 | 0.005 |

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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Client: | **EQ-Environmental Quality Company** | Sampled: | 10/04/04 @ 00:00 |
| Project: | Arkona Road Leachate | Sampler: | T. Zick |
| | | Received: | 10/05/04 @ 08:55 |
| | | Prepared: | n/a |
| Submittal #: | **36650-2** | Prep. Method: | n/a |
| Submittal: | October 4, 2004 Sample | Analyzed: | 10/14/04 by JDM |
| | | Anal. Method: | USEPA-8260B |
| Sample ID: | **ARL2 (a-k)** | QC Batch: | 100046 -114 |
| Sample #: | **372367** | Anal. Batch: | 222982 |
| Matrix: | Leachate | Percent Solids: | n/a |
| Unit: | mg/L | Dilution Factor: | 5 |

| CAS Number | Volatile Organics-8260B Appendix IX List | Analytical Result | Reporting Limit |
|---|---|---|---|
| 123-91-1 | **1,4-Dioxane** | **8.3** | 1.5 |
| 100-41-4 | **Ethylbenzene** | **0.017** | 0.005 |
| 74-88-4 | Iodomethane | <0.05 | 0.05 |
| 78-83-1 | Isobutanol | <2.5 | 2.5 |
| 591-78-6 | 2-Hexanone | <0.25 | 0.25 |
| 126-98-7 | Methacrylonitrile | <0.25 | 0.25 |
| 75-09-2 | Methylene Chloride | <0.025 | 0.025 |
| 108-10-1 | **4-Methyl-2-Pentanone** | **0.4** | 0.25 |
| 107-12-0 | Propionitrile | <0.25 | 0.25 |
| 100-42-5 | Styrene | <0.005 | 0.005 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | <0.005 | 0.005 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.005 | 0.005 |
| 127-18-4 | Tetrachloroethene | <0.005 | 0.005 |
| 71-55-6 | 1,1,1-Trichloroethane | <0.005 | 0.005 |
| 79-00-5 | 1,1,2-Trichloroethane | <0.005 | 0.005 |
| 79-01-6 | Trichloroethene | <0.005 | 0.005 |
| 75-69-4 | Trichlorofluoromethane | <0.005 | 0.005 |
| 96-18-4 | 1,2,3-Trichloropropane | <0.005 | 0.005 |
| 108-88-3 | **Toluene** | **0.6** | 0.005 |
| 108-05-4 | Vinyl Acetate | <0.05 | 0.05 |
| 75-01-4 | **Vinyl Chloride** | **0.043** | 0.005 |
| 1330-20-7 | **Xylene (Total)** | **0.11** | 0.015 |



**End of Analytical Report**

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# QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 2500 | 2597 | 104 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 1250 | 1439 | 115 | 86-128 |

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# QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 2500 | 2551 | 102 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 1256 | 1336 | 106 | 89-122 |

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# QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 495 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 259 | 104 | 88-120 |

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# QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 50 | 50.0 | 100 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 25 | 26.7 | 107 | 87-117 |

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# QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 509 | 102 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 264 | 106 | 85-119 |

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# QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 509 | 102 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 277 | 111 | 90-115 |

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# QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 507 | 101 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 257 | 103 | 84-117 |

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# QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 521 | 104 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 275 | 110 | 86-117 |

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# QUALITY CONTROL REPORT

Parameter: **Cyanide, Total**
Method: Colorimetric, Automated W/Distillation USEPA-335.4 WATER
Units: mg/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222908 | JLB | <0.005 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222908 | JLB | 0.05 | 0.051 | 102 | 90-110 |
| 10/12/04 | 222908 | JLB | 0.10 | 0.099 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99998 | JLB | <0.005 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99998 | JLB | 0.10 | 0.101 | 101 | 90-110 |

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# QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP
Units: ug/L

EPA-200.7/6010B WATER

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <50 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 505 | 101 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <50 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 275 | 110 | 84-122 |

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# QUALITY CONTROL REPORT

Parameter: **Mercury, Total**
Method: Cold Vapor, Mercury USEPA-7470A WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/19/04 | 223186 | DWJ | <0.2 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/19/04 | 223186 | DWJ | 3.0 | 2.96 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/19/04 | 100204 | DWJ | <0.2 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/19/04 | 100204 | DWJ | 2.0 | 2.22 | 111 | 85-115 |

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# QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 507 | 101 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 260 | 104 | 87-114 |

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# QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/06/04 | 222807 | INR | <2.5 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/06/04 | 222807 | INR | 1000 | 999 | 100 | 89-106 |
| 10/06/04 | 222807 | INR | 1000 | 969 | 97 | 89-106 |

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# QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 2500 | 2596 | 104 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 1250 | 1242 | 99 | 86-120 |

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# QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 507 | 101 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 266 | 106 | 86-114 |

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# QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/09/04 | 222952 | HLB | <1.0 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/09/04 | 222952 | HLB | 11.2 | 11 | 98 | 97-103 |

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# QUALITY CONTROL REPORT

Parameter: **Thallium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <100 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 2500 | 2529 | 101 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <100 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 1250 | 1289 | 103 | 67-131 |

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# QUALITY CONTROL REPORT

Parameter: **Tin, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <1000 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 2500 | 2449 | 98 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <1000 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 1250 | 1197 | 96 | 75-127 |

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# QUALITY CONTROL REPORT

Parameter: **Vanadium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <10 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 494 | 99 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <10 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 272 | 109 | 87-119 |

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# QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

## Instrument Blank

| Test Date | Analytical Batch Number | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 222810 | DWJ | <20 |

## Laboratory Control Sample

| Test Date | Analytical Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 222810 | DWJ | 500 | 514 | 103 | 90-110 |

## Method Preparation Blank

| Test Date | QC Batch # | Analyst | Blank Conc |
|---|---|---|---|
| 10/12/04 | 99940 | DWJ | <20 |

## Laboratory Fortified Blank

| Test Date | QC Batch # | Analyst | Spike Qty | Spike Result | Recovery | QC Limits |
|---|---|---|---|---|---|---|
| 10/12/04 | 99940 | DWJ | 250 | 256 | 102 | 85-121 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 222797

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Acenaphthene | ND | 5.0 |
| Acenaphthylene | ND | 5.0 |
| Acetophenone | ND | 10 |
| 2-Acetylaminofluorene | ND | 50 |
| 4-Aminobiphenyl | ND | 10 |
| Aniline | ND | 5.0 |
| Anthracene | ND | 5.0 |
| Aramite | ND | 50 |
| Benzo (a) Anthracene | ND | 5.0 |
| Benzo (a) Pyrene | ND | 5.0 |
| Benzo (b) Fluoranthene | ND | 5.0 |
| Benzo (k) Fluoranthene | ND | 5.0 |
| Benzo (g,h,i,) Perylene | ND | 5.0 |
| Benzyl Alcohol | ND | 50 |
| 4-Bromophenyl Phenylether | ND | 5.0 |
| Butyl Benzyl Phthalate | ND | 5.0 |
| 2-sec-Butyl-4,6-dinitro-phenol | ND | 5.0 |
| 4-Chloroaniline | ND | 20 |
| Bis (2-Chloroethoxy)-Methane | ND | 5.0 |
| Bis (2-Chloroethyl) Ether | ND | 5.0 |
| Bis (2-Chloroisopropyl)-Ether | ND | 5.0 |
| 4-Chloro-3-Methylphenol | ND | 5.0 |
| 2-Chloronaphthalene | ND | 5.0 |
| 2-Chlorophenol | ND | 5.0 |
| 4-Chlorophenylphenyl-Ether | ND | 5.0 |
| Chrysene | ND | 5.0 |
| Di-n-Butylphthalate | ND | 5.0 |
| Di-n-Octylphthalate | ND | 5.0 |
| Dibenzo (a,h) Anthracene | ND | 5.0 |
| Dibenzofuran | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 222797

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 3,3'-Dichlorobenzidine | ND | 20 |
| 2,4-Dichlorophenol | ND | 5.0 |
| 2,6-Dichlorophenol | ND | 5.0 |
| Diethylphthalate | ND | 5.0 |
| p-Dimethylaminoazobenzene | ND | 10 |
| 7,12-Dimethylbenz(a)anthr acene | ND | 10 |
| 3,3'-Dimethylbenzidine | ND | 50 |
| a,a-Dimethyl-phenethylamine | ND | 20 |
| 2,4-Dimethylphenol | ND | 5.0 |
| Dimethylphthalate | ND | 5.0 |
| 1,3-Dinitrobenzene | ND | 5.0 |
| 4,6-Dinitro-2-Methylphenol | ND | 20 |
| 2,4-Dinitrophenol | ND | 20 |
| 2,4-Dinitrotoluene | ND | 5.0 |
| 2,6-Dinitrotoluene | ND | 5.0 |
| Diphenylamine | ND | 10 |
| Bis (2-ethylhexyl)-Phthalate | ND | 5.0 |
| Ethyl Methacrylate | ND | 50 |
| Ethyl Methanesulfonate | ND | 10 |
| Fluoranthene | ND | 5.0 |
| Fluorene | ND | 5.0 |
| Hexachlorobenzene | ND | 5.0 |
| Hexachlorobutadiene | ND | 5.0 |
| Hexachlorocyclopentadiene | ND | 5.0 |
| Hexachloroethane | ND | 5.0 |
| Hexachloropropene | ND | 50 |
| Indeno (1,2,3-cd) Pyrene | ND | 5.0 |
| Isophorone | ND | 5.0 |
| Isosafrole | ND | 20 |
| Methapyrilene | ND | 10 |
| 3-Methylcholanthrene | ND | 50 |
| Methyl methanesulfonate | ND | 50 |
| Methylmethacrylate | ND | 50 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 222797

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2-Methylnaphthalene | ND | 5.0 |
| 2-Methylphenol | ND | 5.0 |
| 3-Methylphenol | ND | 5.0 |
| 4-Methylphenol | ND | 5.0 |
| Naphthalene | ND | 5.0 |
| 1,4-Naphthoquinone | ND | 1000 |
| 1-Naphthylamine | ND | 50 |
| 2-Naphthylamine | ND | 50 |
| 2-Nitroaniline | ND | 20 |
| 3-Nitroaniline | ND | 20 |
| 4-Nitroaniline | ND | 20 |
| Nitrobenzene | ND | 5.0 |
| 2-Nitrophenol | ND | 5.0 |
| 4-Nitrophenol | ND | 20 |
| 4-Nitroquinoline-1-oxide | ND | 500 |
| N-Nitroso-di-n-butylamine | ND | 20 |
| N-Nitroso-di-ethylamine | ND | 5.0 |
| N-Nitroso-di-methylamine | ND | 5.0 |
| N-Nitroso-di-Phenylamine | ND | 5.0 |
| N-Nitrosodi-n-Propylamine | ND | 5.0 |
| N-Nitrosomethylethylamine | ND | 5.0 |
| N-Nitrosomorpholine | ND | 20 |
| N-Nitrosopiperidine | ND | 20 |
| N-Nitrosopyrrolidine | ND | 20 |
| 5-Nitro-o-toluidine | ND | 10 |
| Pentachlorobenzene | ND | 5.0 |
| Pentachloroethane | ND | 50 |
| Pentachloronitrobenzene | ND | 20 |
| Pentachlorophenol | ND | 20 |
| Phenacetin | ND | 10 |
| Phenanthrene | ND | 5.0 |
| Phenol | ND | 5.0 |
| 1,4-Phenylenediamine | ND | 10 |
| 2-Picoline | ND | 5.0 |
| Pyrene | ND | 5.0 |
| Pyridine | ND | 10 |
| Pronamide | ND | 10 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 222797

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Safrole | ND | 10 |
| 1,2,4,5-Tetrachloro-benzene | ND | 10 |
| 2,3,4,6-Tetrachlorophenol | ND | 50 |
| 2-Toluidine | ND | 10 |
| 1,2,4-Trichlorobenzene | ND | 5.0 |
| 2,4,5-Trichlorophenol | ND | 50 |
| 2,4,6-Trichlorophenol | ND | 5.0 |
| 1,3,5-Trinitrobenzene | ND | 20 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 99937-108

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Acenaphthene | <5.00 | 5.0 |
| Acenaphthylene | <5.00 | 5.0 |
| Acetophenone | <10.0 | 10 |
| 2-Acetylaminofluorene | <50.0 | 50 |
| 4-Aminobiphenyl | <10.0 | 10 |
| Aniline | <5.00 | 5.0 |
| Anthracene | <5.00 | 5.0 |
| Aramite | <50.0 | 50 |
| Benzo (a) Anthracene | <5.00 | 5.0 |
| Benzo (a) Pyrene | <5.00 | 5.0 |
| Benzo (b) Fluoranthene | <5.00 | 5.0 |
| Benzo (k) Fluoranthene | <5.00 | 5.0 |
| Benzo (g,h,i,) Perylene | <5.00 | 5.0 |
| Benzyl Alcohol | <50.0 | 50 |
| 4-Bromophenyl Phenylether | <5.00 | 5.0 |
| Butyl Benzyl Phthalate | <5.00 | 5.0 |
| 2-sec-Butyl-4,6-dinitro-phenol | <5.00 | 5.0 |
| 4-Chloroaniline | <20.0 | 20 |
| Bis (2-Chloroethoxy)-Methane | <5.00 | 5.0 |
| Bis (2-Chloroethyl) Ether | <5.00 | 5.0 |
| Bis (2-Chloroisopropyl)-Ether | <5.00 | 5.0 |
| 4-Chloro-3-Methylphenol | <5.00 | 5.0 |
| 2-Chloronaphthalene | <5.00 | 5.0 |
| 2-Chlorophenol | <5.00 | 5.0 |
| 4-Chlorophenylphenyl-Ether | <5.00 | 5.0 |
| Chrysene | <5.00 | 5.0 |
| Di-n-Butylphthalate | <5.00 | 5.0 |
| Di-n-Octylphthalate | <5.00 | 5.0 |
| Dibenzo (a,h) Anthracene | <5.00 | 5.0 |
| Dibenzofuran | <5.00 | 5.0 |
| 1,2-Dichlorobenzene | <5.00 | 5.0 |
| 1,3-Dichlorobenzene | <5.00 | 5.0 |
| 1,4-Dichlorobenzene | <5.00 | 5.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 99937-108

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 3,3'-Dichlorobenzidine | <20.0 | 20 |
| 2,4-Dichlorophenol | <5.00 | 5.0 |
| 2,6-Dichlorophenol | <5.00 | 5.0 |
| Diethylphthalate | <5.00 | 5.0 |
| p-Dimethylaminoazobenzene | <10.0 | 10 |
| 7,12-Dimethylbenz(a)anthr acene | <10.0 | 10 |
| 3,3'-Dimethylbenzidine | <50.0 | 50 |
| a,a-Dimethyl-phenethylamine | <20.0 | 20 |
| 2,4-Dimethylphenol | <5.00 | 5.0 |
| Dimethylphthalate | <5.00 | 5.0 |
| 1,3-Dinitrobenzene | <5.00 | 5.0 |
| 4,6-Dinitro-2-Methylphenol | <20.0 | 20 |
| 2,4-Dinitrophenol | <20.0 | 20 |
| 2,4-Dinitrotoluene | <5.00 | 5.0 |
| 2,6-Dinitrotoluene | <5.00 | 5.0 |
| Diphenylamine | <10.0 | 10 |
| Bis (2-ethylhexyl)-Phthalate | <5.00 | 5.0 |
| Ethyl Methacrylate | <50.0 | 50 |
| Ethyl Methanesulfonate | <10.0 | 10 |
| Fluoranthene | <5.00 | 5.0 |
| Fluorene | <5.00 | 5.0 |
| Hexachlorobenzene | <5.00 | 5.0 |
| Hexachlorobutadiene | <5.00 | 5.0 |
| Hexachlorocyclopentadiene | <5.00 | 5.0 |
| Hexachloroethane | <5.00 | 5.0 |
| Hexachloropropene | <50.0 | 50 |
| Indeno (1,2,3-cd) Pyrene | <5.00 | 5.0 |
| Isophorone | <5.00 | 5.0 |
| Isosafrole | <20.0 | 20 |
| Methapyrilene | <10.0 | 10 |
| 3-Methylcholanthrene | <50.0 | 50 |
| Methyl methanesulfonate | <50.0 | 50 |
| Methylmethacrylate | <50.0 | 50 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 99937-108

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2-Methylnaphthalene | <5.00 | 5.0 |
| 2-Methylphenol | <5.00 | 5.0 |
| 3-Methylphenol | <5.00 | 5.0 |
| 4-Methylphenol | <5.00 | 5.0 |
| Naphthalene | <5.00 | 5.0 |
| 1,4-Naphthoquinone | <1000 | 1000 |
| 1-Naphthylamine | <50.0 | 50 |
| 2-Naphthylamine | <50.0 | 50 |
| 2-Nitroaniline | <20.0 | 20 |
| 3-Nitroaniline | <20.0 | 20 |
| 4-Nitroaniline | <20.0 | 20 |
| Nitrobenzene | <5.00 | 5.0 |
| 2-Nitrophenol | <5.00 | 5.0 |
| 4-Nitrophenol | <20.0 | 20 |
| 4-Nitroquinoline-1-oxide | <500 | 500 |
| N-Nitroso-di-n-butylamine | <20.0 | 20 |
| N-Nitroso-di-ethylamine | <5.00 | 5.0 |
| N-Nitroso-di-methylamine | <5.00 | 5.0 |
| N-Nitroso-di-Phenylamine | <5.00 | 5.0 |
| N-Nitrosodi-n-Propylamine | <5.00 | 5.0 |
| N-Nitrosomethylethylamine | <5.00 | 5.0 |
| N-Nitrosomorpholine | <20.0 | 20 |
| N-Nitrosopiperidine | <20.0 | 20 |
| N-Nitrosopyrrolidine | <20.0 | 20 |
| 5-Nitro-o-toluidine | <10.0 | 10 |
| Pentachlorobenzene | <5.00 | 5.0 |
| Pentachloroethane | <50.0 | 50 |
| Pentachloronitrobenzene | <20.0 | 20 |
| Pentachlorophenol | <20.0 | 20 |
| Phenacetin | <10.0 | 10 |
| Phenanthrene | <5.00 | 5.0 |
| Phenol | <5.00 | 5.0 |
| 1,4-Phenylenediamine | <10.0 | 10 |
| 2-Picoline | <5.00 | 5.0 |
| Pyrene | <5.00 | 5.0 |
| Pyridine | <10.0 | 10 |
| Pronamide | <10.0 | 10 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 10/11/04
Units: ug/L
QC Batch: 99937-108

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Safrole | <10.0 | 10 |
| 1,2,4,5-Tetrachloro-benzene | <10.0 | 10 |
| 2,3,4,6-Tetrachlorophenol | <50.0 | 50 |
| 2-Toluidine | <10.0 | 10 |
| 1,2,4-Trichlorobenzene | <5.00 | 5.0 |
| 2,4,5-Trichlorophenol | <50.0 | 50 |
| 2,4,6-Trichlorophenol | <5.00 | 5.0 |
| 1,3,5-Trinitrobenzene | <20.0 | 20 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod
Units: ug/L
Analytical Batch: 223306

Test Date: 10/19/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Aldrin | ND | 1.0 |
| Alpha-BHC | ND | 1.0 |
| Beta-BHC | ND | 1.0 |
| Lindane | ND | 1.0 |
| Delta-BHC | ND | 1.0 |
| A-Chlordane | ND | 1.0 |
| G-Chlordane | ND | 1.0 |
| 4,4'-DDT | ND | 1.0 |
| 4,4'-DDE | ND | 1.0 |
| 4,4'-DDD | ND | 1.0 |
| Dieldrin | ND | 1.0 |
| Endosulfan I | ND | 1.0 |
| Endosulfan II | ND | 1.0 |
| Endosulfan Sulfate | ND | 1.0 |
| Endrin | ND | 1.0 |
| Endrin Aldehyde | ND | 1.0 |
| Heptachlor | ND | 1.0 |
| Heptachlor Epoxide | ND | 1.0 |
| Methoxychlor | ND | 1.0 |
| Toxaphene | ND | 1.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod
Units: ug/L
QC Batch: 100328-106

Test Date: 10/19/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Aldrin | <1.00 | 1.0 |
| Alpha-BHC | <1.00 | 1.0 |
| Beta-BHC | <1.00 | 1.0 |
| Lindane | <1.00 | 1.0 |
| Delta-BHC | <1.00 | 1.0 |
| A-Chlordane | <1.00 | 1.0 |
| G-Chlordane | <1.00 | 1.0 |
| Chlorobenzilate | <10.0 | 10 |
| 4,4'-DDT | <1.00 | 1.0 |
| 4,4'-DDE | <1.00 | 1.0 |
| 4,4'-DDD | <1.00 | 1.0 |
| Diallate | <50.0 | 50 |
| Dieldrin | <1.00 | 1.0 |
| Endosulfan I | <1.00 | 1.0 |
| Endosulfan II | <1.00 | 1.0 |
| Endosulfan Sulfate | <1.00 | 1.0 |
| Endrin | <1.00 | 1.0 |
| Endrin Aldehyde | <1.00 | 1.0 |
| Heptachlor | <1.00 | 1.0 |
| Heptachlor Epoxide | <1.00 | 1.0 |
| Isodrin | <5.00 | 5.0 |
| Kepone | <5.00 | 5.0 |
| Methoxychlor | <1.00 | 1.0 |
| Toxaphene | <1.00 | 1.0 |

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 10/19/04
Units: ug/L
QC Batch: 100328-106

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| Aldrin | 0.0840 | 0.0430 | 51 | 44 - 130 |
| Alpha-BHC | 0.0800 | 0.0638 | 80 | 38 - 136 |
| Beta-BHC | 0.0800 | 0.0608 | 76 | 52 - 125 |
| Lindane | 0.0800 | 0.0702 | 88 | 62 - 121 |
| Delta-BHC | 0.0800 | 0.179 | 224 | 54 - 144 |
| A-Chlordane | 0.0800 | 0.0640 | 80 | 58 - 108 |
| G-Chlordane | 0.0800 | 0.0464 | 58 | 58 - 108 |
| 4,4'-DDT | 0.0800 | 0.0662 | 83 | 47 - 140 |
| 4,4'-DDE | 0.0800 | 0.0406 | 51 | 41 - 133 |
| 4,4'-DDD | 0.0800 | 0.0894 | 112 | 56 - 139 |
| Dieldrin | 0.0800 | 0.0566 | 71 | 58 - 135 |
| Endosulfan I | 0.0800 | 0.0414 | 52 | 35 - 116 |
| Endosulfan II | 0.0800 | 0.0546 | 68 | 46 - 134 |
| Endosulfan Sulfate | 0.0800 | 0.0860 | 108 | 56 - 132 |
| Endrin | 0.0800 | 0.0604 | 76 | 42 - 164 |
| Endrin Aldehyde | 0.0800 | 0.0532 | 67 | 45 - 131 |
| Heptachlor | 0.0800 | 0.0394 | 49 | 48 - 136 |
| Heptachlor Epoxide | 0.0800 | 0.0554 | 69 | 51 - 121 |
| Methoxychlor | 0.0800 | 0.0694 | 87 | 73 - 129 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: QC ORGANOPHOS PEST'S 8270
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 10/11/04
Units: ug/L
Analytical Batch: 222797

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Dimethoate | ND | 20 |
| Disulfoton | ND | 20 |
| Famphur | ND | 20 |
| Methyl Parathion | ND | 20 |
| Parathion | ND | 20 |
| o-o-o-Triethyl-phosphorothioate | ND | 20 |
| Thionazin | ND | 20 |
| Phorate | ND | 20 |
| Sulfotepp | ND | 20 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: QC ORGANOPHOS PEST'S 8270
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 99937-108

Test Date: 10/11/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Dimethoate | <20.0 | 20 |
| Disulfoton | <20.0 | 20 |
| Famphur | <20.0 | 20 |
| Methyl Parathion | <20.0 | 20 |
| Parathion | <20.0 | 20 |
| o-o-o-Triethyl-phosphorothioate | <20.0 | 20 |
| Thionazin | <20.0 | 20 |
| Phorate | <20.0 | 20 |
| Sulfotepp | <20.0 | 20 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Reiffer
Units: ug/L
Analytical Batch: 222811

Test Date: 10/12/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| PCB-1016 | ND | 0.10 |
| PCB-1221 | ND | 0.10 |
| PCB-1232 | ND | 0.10 |
| PCB-1242 | ND | 0.10 |
| PCB-1248 | ND | 0.10 |
| PCB-1254 | ND | 0.10 |
| PCB-1260 | ND | 0.10 |

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## QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Reiffer Test Date: 10/13/04
Units: ug/L
QC Batch: 99954-106

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| PCB-1016 | <0.100 | 0.10 |
| PCB-1221 | <0.100 | 0.10 |
| PCB-1232 | <0.100 | 0.10 |
| PCB-1242 | <0.100 | 0.10 |
| PCB-1248 | <0.100 | 0.10 |
| PCB-1254 | <0.100 | 0.10 |
| PCB-1260 | <0.100 | 0.10 |

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Reiffer Test Date: 10/13/04
Units: ug/L
QC Batch: 99954-106

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| PCB-1248 | 1.00 | 0.641 | 64 | 49 - 137 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Reiffer
Test Date: 10/12/04
Units: ug
Analytical Batch: 222811

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| PCB-1016 | ND | 1.0 |
| PCB-1221 | ND | 1.0 |
| PCB-1232 | ND | 1.0 |
| PCB-1242 | ND | 1.0 |
| PCB-1248 | ND | 1.0 |
| PCB-1254 | ND | 1.0 |
| PCB-1260 | ND | 1.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod
Units: ug/L
QC Batch: 100328-106

Test Date: 10/13/04

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 10/13/04
Units: ug/L
QC Batch: 100328-106

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| PBB(BP-6) | 0.0800 | 0.0916 | 115 | 36 - 152 |
| Hexabromobenzene | 0.0800 | 0.0548 | 69 | 36 - 160 |
| 2,4'-DDT | 0.0800 | 0.0752 | 94 | 51 - 132 |
| tris (2,3-Dibromopropyl) phosphate | 4.00 | 7.84 | **196** | 50 - 146 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Semi-Volatile Organics USEPA-8270 Scan
Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 10/11/04
Units: ug/L
QC Batch: 99937-108

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Acenaphthene | <5.00 | 5.0 |
| Acenaphthylene | <5.00 | 5.0 |
| Anthracene | <5.00 | 5.0 |
| Aniline | <5.00 | 5.0 |
| Benzo (a) Anthracene | <5.00 | 5.0 |
| Benzo (a) Pyrene | <5.00 | 5.0 |
| Benzo (g,h,i,) Perylene | <5.00 | 5.0 |
| Benzyl Alcohol | <10.0 | 10 |
| Bis (2-Chloroethoxy)-Methane | <5.00 | 5.0 |
| Bis (2-Chloroethyl) Ether | <5.00 | 5.0 |
| Bis (2-Chloroisopropyl)-Ether | <5.00 | 5.0 |
| Bis (2-ethylhexyl)-Phthalate | <5.00 | 5.0 |
| 4-Bromophenyl Phenylether | <5.00 | 5.0 |
| Butyl Benzyl Phthalate | <5.00 | 5.0 |
| 4-Chloro-3-Methylphenol | <5.00 | 5.0 |
| 4-Chloroaniline | <10.0 | 10 |
| 2-Chloronaphthalene | <5.00 | 5.0 |
| 2-Chlorophenol | <5.00 | 5.0 |
| 4-Chlorophenylphenyl-Ether | <5.00 | 5.0 |
| Chrysene | <5.00 | 5.0 |
| Di-n-Butylphthalate | <5.00 | 5.0 |
| Di-n-Octylphthalate | <5.00 | 5.0 |
| Dibenzo (a,h) Anthracene | <5.00 | 5.0 |
| Dibenzofuran | <5.00 | 5.0 |
| 1,2-Dichlorobenzene | <5.00 | 5.0 |
| 1,3-Dichlorobenzene | <5.00 | 5.0 |
| 1,4-Dichlorobenzene | <5.00 | 5.0 |
| 3,3'-Dichlorobenzidine | <20.0 | 20 |
| 2,4-Dichlorophenol | <5.00 | 5.0 |
| Diethylphthalate | <5.00 | 5.0 |
| Dimethylphthalate | <5.00 | 5.0 |
| 2,4-Dimethylphenol | <5.00 | 5.0 |
| 4,6-Dinitro-2-Methylphenol | <20.0 | 20 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Semi-Volatile Organics USEPA-8270 Scan
Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 10/11/04
Units: ug/L
QC Batch: 99937-108

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2,4-Dinitrophenol | <10.0 | 10 |
| 2,4-Dinitrotoluene | <5.00 | 5.0 |
| 2,6-Dinitrotoluene | <5.00 | 5.0 |
| Fluoranthene | <5.00 | 5.0 |
| Fluorene | <5.00 | 5.0 |
| Hexachlorobenzene | <5.00 | 5.0 |
| Hexachlorobutadiene | <5.00 | 5.0 |
| Hexachlorocyclopentadiene | <5.00 | 5.0 |
| Hexachloroethane | <5.00 | 5.0 |
| Indeno (1,2,3-cd) Pyrene | <5.00 | 5.0 |
| Isophorone | <5.00 | 5.0 |
| 3-Methylphenol | <5.00 | 5.0 |
| 2-Methylnaphthalene | <5.00 | 5.0 |
| 2-Methylphenol | <5.00 | 5.0 |
| 4-Methylphenol | <5.00 | 5.0 |
| N-Nitrosodi-n-Propylamine | <5.00 | 5.0 |
| N-Nitroso-di-Phenylamine | <5.00 | 5.0 |
| Naphthalene | <5.00 | 5.0 |
| 2-Nitroaniline | <20.0 | 20 |
| 3-Nitroaniline | <20.0 | 20 |
| 4-Nitroaniline | <20.0 | 20 |
| Nitrobenzene | <5.00 | 5.0 |
| 2-Nitrophenol | <5.00 | 5.0 |
| 4-Nitrophenol | <20.0 | 20 |
| Pentachlorophenol | <10.0 | 10 |
| Phenanthrene | <5.00 | 5.0 |
| Phenol | <5.00 | 5.0 |
| Pyrene | <5.00 | 5.0 |
| 1,2,4-Trichlorobenzene | <5.00 | 5.0 |
| 2,4,5-Trichlorophenol | <10.0 | 10 |
| 2,4,6-Trichlorophenol | <5.00 | 5.0 |
| 2,3,4,6-Tetrachlorophenol | <50.0 | 50 |
| Pyridine | <10.0 | 10 |
| Benzo (b) Fluoranthene | <5.00 | 5.0 |
| Benzo (k) Fluoranthene | <5.00 | 5.0 |

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## QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Semi-Volatile Organics USEPA-8270 Scan
Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 10/11/04
Units: ug/L
QC Batch: 99937-108

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| Acenaphthene | 100 | 83.3 | 83 | 39 - 109 |
| 1,4-Dichlorobenzene | 100 | 93.8 | 94 | 36 - 103 |
| 2,4-Dinitrotoluene | 100 | 105 | 105 | 42 - 119 |
| Naphthalene | 100 | 91.7 | 92 | 49 - 116 |
| N-Nitrosodi-n-Propylamine | 100 | 105 | 105 | 45 - 124 |
| Pyrene | 100 | 92.0 | 92 | 46 - 114 |
| 1,2,4-Trichlorobenzene | 100 | 94.3 | 94 | 42 - 103 |
| 4-Chloro-3-Methylphenol | 200 | 158 | 79 | 42 - 121 |
| 2-Chlorophenol | 200 | 158 | 79 | 40 - 122 |
| 4-Nitrophenol | 200 | 66.6 | 33 | 11 - 68 |
| Pentachlorophenol | 200 | 133 | 67 | 39 - 112 |
| Phenol | 200 | 77.5 | 39 | 19 - 55 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 11/02/04
Units: ug/L
Analytical Batch: 224068

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2,4-D | ND | 5.0 |
| 2,4,5-T | ND | 5.0 |
| Dinoseb | ND | 0.50 |
| 2,4,5-TP (Silvex) | ND | 5.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 11/02/04
Units: ug/L
QC Batch: 99765-107

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| 2,4-D | <5.00 | 5.0 |
| 2,4,5-T | <5.00 | 5.0 |
| Dinoseb | <0.500 | 0.50 |
| 2,4,5-TP (Silvex) | <5.00 | 5.0 |

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 11/02/04
Units: ug/L
QC Batch: 99765-107

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| 2,4-D | 2.50 | 3.66 | 146 | 23 - 151 |
| 2,4,5-T | 0.250 | 0.444 | **178** | 41 - 118 |
| 2,4-DB | 2.5 | 5.21 | **208** | 21 - 117 |
| Dalapon | 6.25 | 6.51 | 104 | 53 - 111 |
| Dicamba | 0.250 | 0.321 | **128** | 59 - 115 |
| Dichlorprop | 2.5 | 3.44 | **138** | 54 - 106 |
| Dinoseb | 1.25 | 0.638 | 51 | 10 - 75 |
| MCPA | 250 | 358 | **143** | 56 - 90 |
| 2,4,5-TP (Silvex) | 0.250 | 0.352 | **141** | 22 - 135 |
| MCPP | 250 | 349 | **140** | 50 - 103 |

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# QUALITY CONTROL REPORT

## INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 10/19/04
Units: ug/L
Analytical Batch: 223306

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Aldrin | ND | 0.050 |
| Dieldrin | ND | 0.050 |
| 4,4'-DDT | ND | 0.050 |
| 4,4'-DDE | ND | 0.050 |
| 4,4'-DDD | ND | 0.050 |
| Endosulfan I | ND | 0.050 |
| Endosulfan II | ND | 0.050 |
| Endosulfan Sulfate | ND | 0.050 |
| Endrin | ND | 0.050 |
| Endrin Aldehyde | ND | 0.050 |
| Heptachlor | ND | 0.050 |
| Heptachlor Epoxide | ND | 0.050 |
| Alpha-BHC | ND | 0.050 |
| Beta-BHC | ND | 0.050 |
| Lindane | ND | 0.050 |
| Delta-BHC | ND | 0.050 |
| Toxaphene | ND | 0.10 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden Test Date: 10/14/04
Units: ug/L
QC Batch: 100046-114

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Dichlorodifluoromethane | <1.00 | 1.0 |
| Chloromethane | <1.00 | 1.0 |
| Vinyl Chloride | <1.00 | 1.0 |
| Bromomethane | <1.00 | 1.0 |
| Chloroethane | <1.00 | 1.0 |
| Trichlorofluoromethane | <1.00 | 1.0 |
| Acrolein | <5.00 | 5.0 |
| 1,1-Dichloroethylene | <1.00 | 1.0 |
| Iodomethane | <10.0 | 10 |
| Carbon Disulfide | <5.00 | 5.0 |
| Acetone | <10.0 | 10 |
| Methylene Chloride | <5.00 | 5.0 |
| Acrylonitrile | <1.00 | 1.0 |
| 1,1-Dichloroethane | <1.00 | 1.0 |
| Vinyl Acetate | <10.0 | 10 |
| 2-Butanone | <5.00 | 5.0 |
| Chloroform | <1.00 | 1.0 |
| 1,1,1-Trichloroethane | <1.00 | 1.0 |
| Carbon Tetrachloride | <1.00 | 1.0 |
| Benzene | <1.00 | 1.0 |
| 1,2-Dichloroethane | <1.00 | 1.0 |
| Trichloroethene | <1.00 | 1.0 |
| 1,2-Dichloropropane | <1.00 | 1.0 |
| Dibromomethane | <1.00 | 1.0 |
| Dichlorobromomethane | <1.00 | 1.0 |
| cis-1,3-Dichloropropene | <1.00 | 1.0 |
| 4-Methyl-2-Pentanone | <5.00 | 5.0 |
| Toluene | <1.00 | 1.0 |
| trans-1,3-Dichloropropene | <1.00 | 1.0 |
| 1,1,2-Trichloroethane | <1.00 | 1.0 |
| Tetrachloroethene | <1.00 | 1.0 |
| 2-Hexanone | <5.00 | 5.0 |
| Chlorodibromomethane | <1.00 | 1.0 |
| 1,2-Dibromoethane | <10.0 | 10 |
| Chlorobenzene | <1.00 | 1.0 |
| 1,1,2,2-Tetrachloroethane | <1.00 | 1.0 |
| Ethylbenzene | <1.00 | 1.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Test Date: 10/14/04
Units: ug/L
QC Batch: 100046-114

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Xylene (Total) | <3.00 | 3.0 |
| Styrene | <1.00 | 1.0 |
| Bromoform | <1.00 | 1.0 |
| 1,1,1,2-Tetrachloroethane | <1.00 | 1.0 |
| 1,2,3-Trichloropropane | <1.00 | 1.0 |
| 1,2-Dibromo-3-chloropropane | <1.00 | 1.0 |
| trans-1,4-Dichloro-2-butene | <5.00 | 5.0 |
| 1,2-Dichloroethylene-(total) | <2.00 | 2.0 |

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# QUALITY CONTROL REPORT

## METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Test Date: 10/14/04
Units: ug/L
QC Batch: 100046-114

| Parameter | Blank Concentration | Quantitation Limit |
|---|---|---|
| Acetonitrile | <10.0 | 10 |
| Allyl Chloride | <10.0 | 10 |
| Propionitrile | <50.0 | 50 |
| Methacrylonitrile | <50.0 | 50 |
| Isobutanol | <500 | 500 |
| 1,4-Dioxane | <20.0 | 20 |
| 2-Chloro-1,3-butadiene | <50.0 | 50 |

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# QUALITY CONTROL REPORT

## LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden Test Date: 10/14/04
Units: ug/L
QC Batch: 100046-114

| Parameter | Spike Quantity | Spike Result | Spike % Rec | Control Limits |
|---|---|---|---|---|
| Benzene | 40.0 | 39.0 | 98 | 79 - 120 |
| Chlorobenzene | 40.0 | 38.2 | 96 | 79 - 122 |
| 1,1-Dichloroethylene | 40.0 | 37.5 | 94 | 72 - 126 |
| Toluene | 40.0 | 38.8 | 97 | 79 - 126 |
| Trichloroethene | 40.0 | 38.4 | 96 | 71 - 127 |

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# QUALITY CONTROL REPORT
## SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 | SUR-3 | SUR-4 |
|---|---|---|---|---|---|
| Control Limits: | | 79-124 | 75-128 | 87-113 | 70-121 |
| Sample # / ID | Batch | % R | % R | % R | % R |
| MPB-01 | 100046-114 | 104 | 109 | 95 | 91 |
| LFB-01 | 100046-114 | 101 | 107 | 101 | 101 |
| 372367 | 100046-114 | 96 | 98 | 99 | 96 |

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**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Organochlorine Pesticides & PCBs USEPA-608 WW

Surrogate Compound List

SUR-1: Tetrachloro-m-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 24-115 | 30-108 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 223306 | 82 | 90 |

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# QUALITY CONTROL REPORT
## SURROGATE RECOVERIES

Method: Organochlorine Pesticides & PCBs USEPA-8081A WATER

Surrogate Compound List

SUR-1: Tetrachloro-m-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 36-123 | 14-103 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 223306 | 82 | 90 |
| MPB-01 | 100328-106 | 66 | 40 |
| MPB-01 | 100328-106 | 76 | 56 |
| LFB-01 | 100328-106 | 53 | 24 |
| LFB-01 | 100328-106 | 45 | 30 |
| 372367 | 100328-106 | 39 | 18 |

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Individual sample results relate only to the sample tested.

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**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Semi-Volatiles GC/MS USEPA-8270C WATER

Surrogate Compound List

| | | | |
|---|---|---|---|
| SUR-1: | 2-Fluorobiphenyl | SUR-4: | d6-Phenol |
| SUR-2: | 2-Fluorophenol | SUR-5: | o-Terphenyl |
| SUR-3: | d5-Nitrobenzene | SUR-6: | 2,4,6-Tribromophenol |

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 | SUR-3 | SUR-4 | SUR-5 | SUR-6 |
|---|---|---|---|---|---|---|---|
| Control Limits: | | 37-123 | 16- 69 | 26-116 | 11- 49 | 30-119 | 26-118 |
| Sample # / ID | Batch | % R | % R | % R | % R | % R | % R |
| MPB-01 | 99937-108 | 106 | 65 | 89 | 42 | 105 | 98 |
| MPB-02 | 99937-108 | 80 | 38 | 66 | 28 | 92 | 69 |
| LFB-01 | 99937-108 | 105 | 65 | 99 | 43 | 104 | 91 |
| 372367 | 99937-108 | 105 | 62 | 97 | 45 | 99 | 101 |

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36650- 2

**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Chlorinated Herbicides by GC-ECD USEPA-8151A WATER

Surrogate Compound List

SUR-1: 2,4-Dichlorophenylacetic

% R = Percent Recovery

| Compounds: | SUR-1 |
|---|---|
| Control Limits: | 26-135 |

| Sample # / ID | Batch | % R |
|---|---|---|
| BLK-01 | 224068 | 6 |
| MPB-01 | 99765-107 | 48 |
| LFB-01 | 99765-107 | 85 |
| 372367 | 99765-107 | 59 |

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**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Polychlorinated Biphenyls by GC USEPA-8082 WATER

Surrogate Compound List

SUR-1: Tetrachloro-meta-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 36-114 | 12-120 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 222811 | 75 | 88 |
| MPB-01 | 99954-106 | 69 | 61 |
| LFB-01 | 99954-106 | 56 | 29 |
| 372367 | 99954-106 | 48 | 27 |

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36650- 2

**QUALITY CONTROL REPORT**
**SURROGATE RECOVERIES**

Method: Polychlorinated Biphenyls by GC USEPA-8082 WIPE

Surrogate Compound List

SUR-1: Decachlorobiphenyl
SUR-2: Tetrachloro-meta-xylene

% R = Percent Recovery

| Compounds: | | SUR-1 | SUR-2 |
|---|---|---|---|
| Control Limits: | | 58-134 | 51-140 |
| Sample # / ID | Batch | % R | % R |
| BLK-01 | 222811 | 75 | 88 |

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# Chain of Custody Record

COC No. ARL-02

Page 1 of 1

**For Lab Use Only**

Cart: 4
VOA Rack/Tray: 643-G
Receipt Log No.: 15-6
Project Chemist: JK
Laboratory Project No.: 36650-2

Client Name: EQ - Arkona Road
Address:
Phone: 734.699.6297
Fax:

Project Name: ARL-delisting
Client Project No. / P.O. No.:
Invoice To: (Client) Other (comments)
Contact/Report To: S. Haton / T. Zick

Analyses Requested: 2 6 9 5 10 1p — Appendix IX + TSS

Container Type (corresponds to Container Packing List): A B F E A D

Number of Containers Submitted

| Test Group | Matrix Code | Laboratory Sample Number | Sample ID | Cooler ID | Sample Date | Sample Time | COMP | GRAB | Matrix | A | B | F | E | A | D | Total | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 ARL 2 (a-f) | - | 10/4 | 8:32-8:59 | | | | 6 | | | | | | | |
| | | | 2 ARL 2g | - | 10/4 | 9:07 | | | | 1 (HNO3 preserved) | | | | | | | |
| | | | 3 ARL 2h | - | 10/4 | 9:11 | | | | 1 (ZnAc/NaOH preserved) | | | | | | | |
| | | 02 to 372367 | 4 ARL 2I | - | 10/4 | 9:16 | | | | 1 (NaOH preserved) | | | | | | | |
| | | | 5 ARL 2J | - | 10/4 | 9:19 | | | | 2 | | | | | | | |
| | | | 6 ARL 2K | - | 10/4 | 9:23 | | | | 2 (HCL preserved) | | | | | | | |
| | | | 7 | | | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | |

^ PRESERVATIVES
A NONE pH~7
B $HNO_3$ pH<2
C $H_2SO_4$ pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): Terri Zick
Sampler's Signature: [signature]
Company: CTI and Associates
tzickcti-assoc.com

How Shipped? Hand Carrier Fed-Ex
Tracking No.:

Comments: P/S. RUN Appendix IX + TSS
Call me at 313.300.7401 w/Questions

| 1. Relinquished By | Date | Time |
|---|---|---|
| [signature] | 10/4/04 | 10:49 AM |

| 1. Received By | Date | Time |
|---|---|---|
| | | |

| 2. Relinquished By | Date | Time |
|---|---|---|
| | | |

| 2. Received By | Date | Time |
|---|---|---|
| | | |

| 3. Relinquished By | Date | Time |
|---|---|---|
| | | |

| 3. Received For Lab By | Date | Time |
|---|---|---|
| [signature] | 10/5/04 | 8:55 |