MICROSEARCH ENVIRONMENTAL CORPORATION

# MicroSearch Environmental Corporation

**318 Harrison Street, Suite 1A Oakland, CA 94607 (510) 452-5500 Fax: (510) 452-5510**

May 13, 1996

Ms. Juliet Shin
Alameda County Environmental Health Dept.
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

Subject: Laboratory Analysis of Soil and Groundwater Samples Taken at
Alameda Lock and Glass 2301 Encinal Ave., Alameda

Dear Ms. Shin;

As per your request, MicroSearch Environmental Corp. has sampled and analyzed soil and groundwater samples at on behalf of Alameda Lock and Glass, 2301 Encinal Ave., Alameda CA.

As you are aware, Alameda Lock and Glass has requested an in-place closure of three tanks. We are confident that the soil and groundwater analysis support their request.

Should you have any questions concerning this proposed plan please feel free to call me at (510) 452-5500.

Sincerely,
MicroSearch Environmental

Ronald Brown
President

# Superior Analytical Laboratory

MICROSEARCH ENVIRONMENTAL
318 HARRISON ST., STE 1A
OAKLAND, CA 94607

Date: May 3, 1996

Attn: RONALD BROWN

Laboratory Number : 21258

Project Number/Name : MSE960028
Facility/Site : ALAMEDA LOCK AND GLASS

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This report has been reviewed and

approved for release.

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Project Manager

Customer Service: (800) 521-6109 • Laboratory: (510) 313-0850 • Facsimile: (510) 229-0916
Post Office Box 2648 • 835 Arnold Drive • Suite #106 • Martinez, California 94553
1555 Burke Street • Suite A • San Francisco, California 94124

Superior Analytical Laboratory

MICROSEARCH ENVIRONMENTAL
Attn: RONALD BROWN

Project MSE960028
Reported on May 2, 1996

EPA SW-846 Method 6010 and/or 7000 Series Metals

Chronology

Laboratory Number 21258

| Sample ID | Sampled | Received | Extract. | Analyzed | QC Batch | LAB # |
|---|---|---|---|---|---|---|
| SB006 | 04/23/96 | 04/26/96 | 05/01/96 | 05/02/96 | CE012.44 | 01 |
| SB007 | 04/23/96 | 04/26/96 | 05/01/96 | 05/02/96 | CE012.44 | 02 |
| SB006W | 04/23/96 | 04/26/96 | 05/01/96 | 05/02/96 | CE011.44 | 03 |
| SB008 | 04/23/96 | 04/26/96 | 05/01/96 | 05/02/96 | CE012.44 | 04 |

QC Samples

| QC Batch # | QC Sample ID | Type | Ref. | Matrix | Extract. | Analyzed |
|---|---|---|---|---|---|---|
| CE011.44-01 | Method Blank | MB | | Water | 05/01/96 | 05/02/96 |
| CE011.44-02 | Laboratory Spike | LS | | Water | 05/01/96 | 05/02/96 |
| CE011.44-03 | Laboratory Spike Duplicate | LSD | | Water | 05/01/96 | 05/02/96 |
| CE011.44-04 | SAMPLE 1 | MS | 21274-01 | Water | 05/01/96 | 05/02/96 |
| CE011.44-05 | SAMPLE 1 | MSD | 21274-01 | Water | 05/01/96 | 05/02/96 |
| CE012.44-01 | Method Blank | MB | | Soil | 05/01/96 | 05/02/96 |
| CE012.44-02 | Laboratory Spike | LS | | Soil | 05/01/96 | 05/02/96 |
| CE012.44-03 | Laboratory Spike Duplicate | LSD | | Soil | 05/01/96 | 05/02/96 |
| CE012.44-04 | SB006 | MS | 21258-01 | Soil | 05/01/96 | 05/02/96 |
| CE012.44-05 | SB006 | MSD | 21258-01 | Soil | 05/01/96 | 05/02/96 |

Superior Analytical Laboratory

MICROSEARCH ENVIRONMENTAL
Attn: RONALD BROWN

Project MSE960028
Reported on May 2, 1996

EPA SW-846 Method 6010 and/or 7000 Series Metals

| LAB ID | Sample ID | Matrix | Dil.Factor | Moisture |
|---|---|---|---|---|
| 21258-01 | SB006 | Soil | 1.0 | - |
| 21258-02 | SB007 | Soil | 1.0 | - |
| 21258-03 | SB006W | Water | 5.0 | - |
| 21258-04 | SB008 | Soil | 1.0 | - |

R E S U L T S  O F  A N A L Y S I S

| Compound | 21258-01 Conc. mg/kg | RL | 21258-02 Conc. mg/kg | RL | 21258-03 Conc. mg/L | RL | 21258-04 Conc. mg/kg | RL |
|---|---|---|---|---|---|---|---|---|
| Lead (SW-846 6010) | 6.4 | 2.5 | 3.3 | 2.5 | 0.38+ | 0.25 | 62 | 2.5 |

✓

Sol. Over 10 x STLC

380 ppb in H2O.

Superior Analytical Laboratory

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 21258
Method Blank(s)

| | CE011.44-01 | | CE012.44-01 | |
|---|---|---|---|---|
| | Conc. | RL | Conc. | RL |
| | mg/L | | mg/kg | |
| Lead (SW-846 6010) | ND | 0.05 | ND | 2.5 |

Superior Analytical Laboratory

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 21258

| Compound | Sample conc. | SPK Level | SPK Result | Recovery % | Limits % | RPD % |
|---|---|---|---|---|---|---|
| | | For Water Matrix (mg/L) | | | | |
| | CE011.44 | 02 / 03 - Laboratory Control Spikes | | | | |
| Lead (SW-846 6010) | | 1 | 1.01/1.02 | 101/102 | 75-125 | 1 |
| | | For Soil Matrix (mg/kg) | | | | |
| | CE012.44 | 02 / 03 - Laboratory Control Spikes | | | | |
| Lead (SW-846 6010) | | 50 | 50.5/50 | 101/100 | 75-125 | 1 |
| | | For Water Matrix (mg/L) | | | | |
| | CE011.44 | 04 / 05 - Sample Spiked: 21274 - 01 | | | | |
| Lead (SW-846 6010) | ND | 1 | 0.794/0.796 | 79/80 | 75-125 | 0 |
| | | For Soil Matrix (mg/kg) | | | | |
| | CE012.44 | 04 / 05 - Sample Spiked: 21258 - 01 | | | | |
| Lead (SW-846 6010) | 6.4 | 50 | 54.3/54.2 | 96/96 | 75-125 | 0 |

+ - Raised Detection Limit Due To Matrix Interferences.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Superior Analytical Laboratory

MICROSEARCH ENVIRONMENTAL
Attn: RONALD BROWN

Project MSE960028
Reported on May 1, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 21258

| Sample ID | Sampled | Received | Extract. | Analyzed | QC Batch | LAB # |
|---|---|---|---|---|---|---|
| SB006 | 04/23/96 | 04/26/96 | 04/29/96 | 04/29/96 | CD291.05 | 01 |
| SB007 | 04/23/96 | 04/26/96 | 04/29/96 | 04/29/96 | CD291.05 | 02 |
| SB006W | 04/23/96 | 04/26/96 | 04/30/96 | 04/30/96 | CD301.37 | 03 |
| SB008 | 04/23/96 | 04/26/96 | 04/29/96 | 04/29/96 | CD291.05 | 04 |

QC Samples

| QC Batch # | QC Sample ID | TypeRef. | Matrix | Extract. | Analyzed |
|---|---|---|---|---|---|
| CD291.05-02 | Laboratory Spike | LS | Soil | 04/29/96 | 04/29/96 |
| CD291.05-09 | 4-17-96SS07 | MS 21242-07 | Soil | 04/29/96 | 04/29/96 |
| CD291.05-10 | 4-17-96SS07 | MSD 21242-07 | Soil | 04/29/96 | 04/29/96 |
| CD301.37-02 | Laboratory Spike | LS | Water | 04/30/96 | 04/30/96 |
| CD301.37-12 | HZS 794N | MS 21262-01 | Water | 04/30/96 | 04/30/96 |
| CD301.37-13 | HZS 794N | MSD 21262-01 | Water | 04/30/96 | 04/30/96 |
| CD291.05-01 | Method Blank | MB | Soil | 04/29/96 | 04/29/96 |
| CD301.37-01 | Method Blank | MB | Water | 04/30/96 | 04/30/96 |
| CD291.05-03 | Laboratory Spike | LS | Soil | 04/29/96 | 04/29/96 |
| CD291.05-12 | 4-17-96SS07 | MS 21242-07 | Soil | 04/29/96 | 04/29/96 |
| CD291.05-13 | 4-17-96SS07 | MSD 21242-07 | Soil | 04/29/96 | 04/29/96 |
| CD301.37-03 | Laboratory Spike | LS | Water | 04/30/96 | 04/30/96 |
| CD301.37-14 | HZS 794N | MS 21262-01 | Water | 04/30/96 | 04/30/96 |
| CD301.37-15 | HZS 794N | MSD 21262-01 | Water | 04/30/96 | 04/30/96 |

Superior Analytical Laboratory

MICROSEARCH ENVIRONMENTAL
Attn: RONALD BROWN

Project MSE960028
Reported on May 1, 1996

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

| LAB ID | Sample ID | Matrix | Dil.Factor | Moisture |
|---|---|---|---|---|
| 21258-01 | SB006 | Soil | 1.0 | - |
| 21258-02 | SB007 | Soil | 1.0 | - |
| 21258-03 | SB006W | Water | 1.0 | - |
| 21258-04 | SB008 | Soil | 1.0 | - |

R E S U L T S  O F  A N A L Y S I S

| Compound | 21258-01 Conc. mg/kg | RL | 21258-02 Conc. mg/kg | RL | 21258-03 Conc. ug/L | RL | 21258-04 Conc. mg/kg | RL |
|---|---|---|---|---|---|---|---|---|
| Gasoline_Range | ND | 1 | ND | 1 | ND | 50 | ND | 1 |
| Benzene | ND | 0.005 | ND | 0.005 | ND | 0.5 | ND | 0.005 |
| Toluene | ND | 0.005 | ND | 0.005 | ND | 0.5 | ND | 0.005 |
| Ethyl Benzene | ND | 0.005 | ND | 0.005 | ND | 0.5 | ND | 0.005 |
| Xylenes | ND | 0.005 | ND | 0.005 | ND | 0.5 | ND | 0.005 |
| >> Surrogate Recoveries (%) << | | | | | | | | |
| Trifluorotoluene (SS) | 105 | | 109 | | 103 | | 124 | |

Superior Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21258
Method Blank(s)

| | CD291.05-01 | | CD301.37-01 | |
|---|---|---|---|---|
| | Conc. mg/kg | RL | Conc. ug/L | RL |
| Gasoline_Range | ND | 1 | ND | 50 |
| Benzene | ND | 0.005 | ND | 0.5 |
| Toluene | ND | 0.005 | ND | 0.5 |
| Ethyl Benzene | ND | 0.005 | ND | 0.5 |
| Xylenes | ND | 0.005 | ND | 0.5 |
| >> Surrogate Recoveries (%) << | | | | |
| Trifluorotoluene (SS) | 102 | | 102 | |

Superior Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21258

| Compound | Sample conc. | SPK Level | SPK Result | Recovery % | Limits % | RPD % |
|---|---|---|---|---|---|---|
| | | For Soil Matrix (mg/kg) | | | | |
| | CD291.05 02 / | - Laboratory Control Spikes | | | | |
| Benzene | | 0.100 | 0.10 | 100 | 65-125 | |
| Toluene | | 0.100 | 0.10 | 100 | 65-125 | |
| Ethyl Benzene | | 0.100 | 0.10 | 100 | 65-125 | |
| Xylenes | | 0.300 | 0.31 | 103 | 65-125 | |
| >> Surrogate Recoveries (%) << | | | | | | |
| Trifluorotoluene (SS) | | | | 101 | 50-150 | |
| | | For Water Matrix (ug/L) | | | | |
| | CD301.37 02 / | - Laboratory Control Spikes | | | | |
| Benzene | | 20 | 18 | 90 | 65-125 | |
| Toluene | | 20 | 19 | 95 | 65-125 | |
| Ethyl Benzene | | 20 | 20 | 100 | 65-125 | |
| Xylenes | | 60 | 55 | 92 | 65-125 | |
| >> Surrogate Recoveries (%) << | | | | | | |
| Trifluorotoluene (SS) | | | | 102 | 50-150 | |
| | | For Soil Matrix (mg/kg) | | | | |
| | CD291.05 03 / | - Laboratory Control Spikes | | | | |
| Gasoline_Range | | 10 | 9 | 90 | 65-135 | |
| | | For Water Matrix (ug/L) | | | | |
| | CD301.37 03 / | - Laboratory Control Spikes | | | | |
| Gasoline_Range | | 2000 | 2200 | 110 | 65-135 | |

Superior Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 21258

| Compound | Sample conc. | SPK Level | SPK Result | Recovery % | Limits % | RPD % |
|---|---|---|---|---|---|---|
| **For Soil Matrix (mg/kg)** CD291.05 09 / 10 - Sample Spiked: 21242 - 07 | | | | | | |
| Benzene | ND | 0.100 | 0.10/0.10 | 100/100 | 65-125 | 0 |
| Toluene | ND | 0.100 | 0.12/0.12 | 120/120 | 65-125 | 0 |
| Ethyl Benzene | ND | 0.100 | 0.11/0.10 | 110/100 | 65-125 | 10 |
| Xylenes | ND | 0.300 | 0.32/0.31 | 107/103 | 65-125 | 4 |
| >> Surrogate Recoveries (%) << Trifluorotoluene (SS) | | | | 102/100 | 50-150 | |
| **For Water Matrix (ug/L)** CD301.37 12 / 13 - Sample Spiked: 21262 - 01 | | | | | | |
| Benzene | ND | 20 | 17/17 | 85/85 | 65-125 | 0 |
| Toluene | ND | 20 | 19/19 | 95/95 | 65-125 | 0 |
| Ethyl Benzene | ND | 20 | 19/19 | 95/95 | 65-125 | 0 |
| Xylenes | ND | 60 | 54/54 | 90/90 | 65-125 | 0 |
| >> Surrogate Recoveries (%) << Trifluorotoluene (SS) | | | | 100/99 | 50-150 | |
| **For Soil Matrix (mg/kg)** CD291.05 12 / 13 - Sample Spiked: 21242 - 07 | | | | | | |
| Gasoline_Range | ND | 10 | 9/9 | 90/90 | 65-135 | 0 |
| **For Water Matrix (ug/L)** CD301.37 14 / 15 - Sample Spiked: 21262 - 01 | | | | | | |
| Gasoline_Range | ND | 2000 | 2100/2100 | 105/105 | 65-135 | 0 |

Superior
Analytical Laboratory

Narrative:

Definitions:

| | | |
|---|---|---|
| ND | = | Not Detected |
| RL | = | Reporting Limit |
| NA | = | Not Analysed |
| RPD | = | Relative Percent Difference |
| ug/L | = | parts per billion (ppb) |
| mg/L | = | parts per million (ppm) |
| ug/kg | = | parts per billion (ppb) |
| mg/kg | = | parts per million (ppm) |

San Francisco Regional Office

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

May 3, 1996

Analysis for edf + edb

Ms. Afsaneh Salimpour
SUPERIOR ANALYTICAL LABORATORY
825 Arnold Drive, Suite 114
Martinez, CA 94553

Client Ref.: 21258/MSE960028
Clayton Project No.: 96044.83

Dear Ms. Salimpour:

Attached is our analytical laboratory report for the samples received on April 29, 1996. Following the cover letter is the Quality Control Narrative detailing sample information/problems and a summary of the quality control issues. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after June 2, 1996, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Andrew Bradeen for

Harriotte A. Hurley, CIH
Director, Laboratory Services
San Francisco Regional Office

HAH/tjb

Attachments

QUALITY CONTROL NARRATIVE
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

**Sample Information/Problems:**

There were no problems with sample receipt.

**Analytical Problems:**

No problems were encountered with the sample analyses.

**Quality Control:**

The quality control data is summarized in the Quality Assurance Data Package, which follows the analytical report.

- MS/MSD: A matrix spike and matrix spike duplicate were analyzed where applicable, and all results were acceptable.
- LCS/LCSD: A laboratory control spike and duplicate were analyzed where applicable, and all results were acceptable.
- ICV/CCV: Response for all analytes met Clayton acceptance criteria.
- Surrogate Recoveries: All surrogate recoveries were acceptable. The surrogate recoveries, where applicable, are listed on the sample result pages.

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB006 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-01A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds | | | |
| Acetone | 67-64-1 | ND | 0.02 |
| Benzene | 71-43-2 | ND | 0.005 |
| Bromobenzene | 108-86-1 | ND | 0.005 |
| Bromochloromethane | 74-97-5 | ND | 0.005 |
| Bromodichloromethane | 75-27-4 | ND | 0.005 |
| Bromoform | 75-25-2 | ND | 0.005 |
| Bromomethane | 74-83-9 | ND | 0.005 |
| 2-Butanone | 78-93-3 | ND | 0.02 |
| n-Butylbenzene | 104-51-8 | ND | 0.005 |
| Carbon disulfide | 75-15-0 | ND | 0.02 |
| Carbon tetrachloride | 56-23-5 | ND | 0.005 |
| Chlorobenzene | 108-90-7 | ND | 0.005 |
| Chloroethane | 75-00-3 | ND | 0.005 |
| 2-Chloroethylvinyl ether | 110-75-8 | ND | 0.005 |
| Chloroform | 67-66-3 | ND | 0.005 |
| Chloromethane | 74-87-3 | ND | 0.005 |
| 2-Chlorotoluene | 95-49-8 | ND | 0.005 |
| 4-Chlorotoluene | 106-43-4 | ND | 0.005 |
| Dibromochloromethane | 124-48-1 | ND | 0.005 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ND | 0.02 |
| 1,2-Dibromoethane → edb | 106-93-4 | ND | 0.005 |
| Dibromomethane | 74-95-3 | ND | 0.005 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 0.005 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 0.005 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 0.005 |
| Dichlorodifluoromethane | 75-71-8 | ND | 0.005 |
| 1,1-Dichloroethane | 75-34-3 | ND | 0.005 |
| 1,2-Dichloroethane → edc | 107-06-2 | ND | 0.005 |
| 1,1-Dichloroethene | 75-35-4 | ND | 0.005 |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB006 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-01A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 0.005 |
| 1,2-Dichloropropane | 78-87-5 | ND | 0.005 |
| 1,3-Dichloropropane | 142-28-9 | ND | 0.005 |
| 2,2-Dichloropropane | 594-20-7 | ND | 0.005 |
| 1,1-Dichloropropene | 563-58-6 | ND | 0.005 |
| cis-1,3-dichloropropene | 10061-01-5 | ND | 0.005 |
| trans-1,3-dichloropropene | 10061-02-6 | ND | 0.005 |
| Ethylbenzene | 100-41-4 | ND | 0.005 |
| Freon 113 | 76-13-1 | ND | 0.005 |
| Hexachlorobutadiene | 87-68-3 | ND | 0.005 |
| 2-Hexanone | 591-78-6 | ND | 0.02 |
| Isopropylbenzene | 98-82-8 | ND | 0.005 |
| p-Isopropyltoluene | 99-87-6 | ND | 0.005 |
| Methylene chloride | 75-09-2 | ND | 0.005 |
| 4-Methyl-2-pentanone | 108-10-1 | ND | 0.02 |
| Naphthalene | 91-20-3 | ND | 0.005 |
| n-Propylbenzene | 103-65-1 | ND | 0.005 |
| sec-Butylbenzene | 135-98-8 | ND | 0.005 |
| Styrene | 100-42-5 | ND | 0.005 |
| tert-Butylbenzene | 98-06-6 | ND | 0.005 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ND | 0.005 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | 0.005 |
| Tetrachloroethene | 127-18-4 | ND | 0.005 |
| Toluene | 108-88-3 | ND | 0.005 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ND | 0.005 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 0.005 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | 0.005 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | 0.005 |
| Trichloroethene | 79-01-6 | ND | 0.005 |
| Trichlorofluoromethane | 75-69-4 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB006 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-01A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| 1,2,3-Trichloropropane | 96-18-4 | ND | 0.005 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | 0.005 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | 0.005 |
| Vinyl acetate | 108-05-4 | ND | 0.02 |
| Vinyl chloride | 75-01-4 | ND | 0.005 |
| o-Xylene | 95-47-6 | ND | 0.005 |
| p,m-Xylenes | -- | ND | 0.005 |
| Surrogates | | Recovery (%) | QC Limits (%) |
| 4-Bromofluorobenzene | 460-00-4 | 94 | 74 - 121 |
| Dibromofluoromethane | 1868-53-7 | 95 | 80 - 120 |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 91 | 70 - 121 |
| Toluene-d8 | 2037-26-5 | 88 | 81 - 117 |

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB007 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-02A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds | | | |
| Acetone | 67-64-1 | ND | 0.02 |
| Benzene | 71-43-2 | ND | 0.005 |
| Bromobenzene | 108-86-1 | ND | 0.005 |
| Bromochloromethane | 74-97-5 | ND | 0.005 |
| Bromodichloromethane | 75-27-4 | ND | 0.005 |
| Bromoform | 75-25-2 | ND | 0.005 |
| Bromomethane | 74-83-9 | ND | 0.005 |
| 2-Butanone | 78-93-3 | ND | 0.02 |
| n-Butylbenzene | 104-51-8 | ND | 0.005 |
| Carbon disulfide | 75-15-0 | ND | 0.02 |
| Carbon tetrachloride | 56-23-5 | ND | 0.005 |
| Chlorobenzene | 108-90-7 | ND | 0.005 |
| Chloroethane | 75-00-3 | ND | 0.005 |
| 2-Chloroethylvinyl ether | 110-75-8 | ND | 0.005 |
| Chloroform | 67-66-3 | ND | 0.005 |
| Chloromethane | 74-87-3 | ND | 0.005 |
| 2-Chlorotoluene | 95-49-8 | ND | 0.005 |
| 4-Chlorotoluene | 106-43-4 | ND | 0.005 |
| Dibromochloromethane | 124-48-1 | ND | 0.005 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ND | 0.02 |
| 1,2-Dibromoethane | 106-93-4 | ND | 0.005 |
| Dibromomethane | 74-95-3 | ND | 0.005 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 0.005 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 0.005 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 0.005 |
| Dichlorodifluoromethane | 75-71-8 | ND | 0.005 |
| 1,1-Dichloroethane | 75-34-3 | ND | 0.005 |
| 1,2-Dichloroethane | 107-06-2 | ND | 0.005 |
| 1,1-Dichloroethene | 75-35-4 | ND | 0.005 |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB007 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-02A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 0.005 |
| 1,2-Dichloropropane | 78-87-5 | ND | 0.005 |
| 1,3-Dichloropropane | 142-28-9 | ND | 0.005 |
| 2,2-Dichloropropane | 594-20-7 | ND | 0.005 |
| 1,1-Dichloropropene | 563-58-6 | ND | 0.005 |
| cis-1,3-dichloropropene | 10061-01-5 | ND | 0.005 |
| trans-1,3-dichloropropene | 10061-02-6 | ND | 0.005 |
| Ethylbenzene | 100-41-4 | ND | 0.005 |
| Freon 113 | 76-13-1 | ND | 0.005 |
| Hexachlorobutadiene | 87-68-3 | ND | 0.005 |
| 2-Hexanone | 591-78-6 | ND | 0.02 |
| Isopropylbenzene | 98-82-8 | ND | 0.005 |
| p-Isopropyltoluene | 99-87-6 | ND | 0.005 |
| Methylene chloride | 75-09-2 | ND | 0.005 |
| 4-Methyl-2-pentanone | 108-10-1 | ND | 0.02 |
| Naphthalene | 91-20-3 | ND | 0.005 |
| n-Propylbenzene | 103-65-1 | ND | 0.005 |
| sec-Butylbenzene | 135-98-8 | ND | 0.005 |
| Styrene | 100-42-5 | ND | 0.005 |
| tert-Butylbenzene | 98-06-6 | ND | 0.005 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ND | 0.005 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | 0.005 |
| Tetrachloroethene | 127-18-4 | ND | 0.005 |
| Toluene | 108-88-3 | ND | 0.005 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ND | 0.005 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 0.005 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | 0.005 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | 0.005 |
| Trichloroethene | 79-01-6 | ND | 0.005 |
| Trichlorofluoromethane | 75-69-4 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB007 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-02A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| 1,2,3-Trichloropropane | 96-18-4 | ND | 0.005 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | 0.005 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | 0.005 |
| Vinyl acetate | 108-05-4 | ND | 0.02 |
| Vinyl chloride | 75-01-4 | ND | 0.005 |
| o-Xylene | 95-47-6 | ND | 0.005 |
| p,m-Xylenes | -- | ND | 0.005 |
| Surrogates | | Recovery (%) | QC Limits (%) |
| 4-Bromofluorobenzene | 460-00-4 | 86 | 74 - 121 |
| Dibromofluoromethane | 1868-53-7 | 99 | 80 - 120 |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 95 | 70 - 121 |
| Toluene-d8 | 2037-26-5 | 88 | 81 - 117 |

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB008 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-04A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds | | | |
| Acetone | 67-64-1 | ND | 0.02 |
| Benzene | 71-43-2 | ND | 0.005 |
| Bromobenzene | 108-86-1 | ND | 0.005 |
| Bromochloromethane | 74-97-5 | ND | 0.005 |
| Bromodichloromethane | 75-27-4 | ND | 0.005 |
| Bromoform | 75-25-2 | ND | 0.005 |
| Bromomethane | 74-83-9 | ND | 0.005 |
| 2-Butanone | 78-93-3 | ND | 0.02 |
| n-Butylbenzene | 104-51-8 | ND | 0.005 |
| Carbon disulfide | 75-15-0 | ND | 0.02 |
| Carbon tetrachloride | 56-23-5 | ND | 0.005 |
| Chlorobenzene | 108-90-7 | ND | 0.005 |
| Chloroethane | 75-00-3 | ND | 0.005 |
| 2-Chloroethylvinyl ether | 110-75-8 | ND | 0.005 |
| Chloroform | 67-66-3 | ND | 0.005 |
| Chloromethane | 74-87-3 | ND | 0.005 |
| 2-Chlorotoluene | 95-49-8 | ND | 0.005 |
| 4-Chlorotoluene | 106-43-4 | ND | 0.005 |
| Dibromochloromethane | 124-48-1 | ND | 0.005 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ND | 0.02 |
| 1,2-Dibromoethane | 106-93-4 | ND | 0.005 |
| Dibromomethane | 74-95-3 | ND | 0.005 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 0.005 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 0.005 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 0.005 |
| Dichlorodifluoromethane | 75-71-8 | ND | 0.005 |
| 1,1-Dichloroethane | 75-34-3 | ND | 0.005 |
| 1,2-Dichloroethane | 107-06-2 | ND | 0.005 |
| 1,1-Dichloroethene | 75-35-4 | ND | 0.005 |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB008 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-04A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 0.005 |
| 1,2-Dichloropropane | 78-87-5 | ND | 0.005 |
| 1,3-Dichloropropane | 142-28-9 | ND | 0.005 |
| 2,2-Dichloropropane | 594-20-7 | ND | 0.005 |
| 1,1-Dichloropropene | 563-58-6 | ND | 0.005 |
| cis-1,3-dichloropropene | 10061-01-5 | ND | 0.005 |
| trans-1,3-dichloropropene | 10061-02-6 | ND | 0.005 |
| Ethylbenzene | 100-41-4 | ND | 0.005 |
| Freon 113 | 76-13-1 | ND | 0.005 |
| Hexachlorobutadiene | 87-68-3 | ND | 0.005 |
| 2-Hexanone | 591-78-6 | ND | 0.02 |
| Isopropylbenzene | 98-82-8 | ND | 0.005 |
| p-Isopropyltoluene | 99-87-6 | ND | 0.005 |
| Methylene chloride | 75-09-2 | ND | 0.005 |
| 4-Methyl-2-pentanone | 108-10-1 | ND | 0.02 |
| Naphthalene | 91-20-3 | ND | 0.005 |
| n-Propylbenzene | 103-65-1 | ND | 0.005 |
| sec-Butylbenzene | 135-98-8 | ND | 0.005 |
| Styrene | 100-42-5 | ND | 0.005 |
| tert-Butylbenzene | 98-06-6 | ND | 0.005 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ND | 0.005 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | 0.005 |
| Tetrachloroethene | 127-18-4 | ND | 0.005 |
| Toluene | 108-88-3 | ND | 0.005 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ND | 0.005 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 0.005 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | 0.005 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | 0.005 |
| Trichloroethene | 79-01-6 | ND | 0.005 |
| Trichlorofluoromethane | 75-69-4 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB008 | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-04A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| 1,2,3-Trichloropropane | 96-18-4 | ND | 0.005 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | 0.005 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | 0.005 |
| Vinyl acetate | 108-05-4 | ND | 0.02 |
| Vinyl chloride | 75-01-4 | ND | 0.005 |
| o-Xylene | 95-47-6 | ND | 0.005 |
| p,m-Xylenes | -- | ND | 0.005 |
| Surrogates | | Recovery (%) | QC Limits (%) |
| 4-Bromofluorobenzene | 460-00-4 | 84 | 74 - 121 |
| Dibromofluoromethane | 1868-53-7 | 102 | 80 - 120 |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 98 | 70 - 121 |
| Toluene-d8 | 2037-26-5 | 93 | 81 - 117 |

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | METHOD BLANK | Date Sampled: | -- |
| Lab Number: | 9604483-05A | Date Received: | -- |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds | | | |
| Acetone | 67-64-1 | ND | 0.02 |
| Benzene | 71-43-2 | ND | 0.005 |
| Bromobenzene | 108-86-1 | ND | 0.005 |
| Bromochloromethane | 74-97-5 | ND | 0.005 |
| Bromodichloromethane | 75-27-4 | ND | 0.005 |
| Bromoform | 75-25-2 | ND | 0.005 |
| Bromomethane | 74-83-9 | ND | 0.005 |
| 2-Butanone | 78-93-3 | ND | 0.02 |
| n-Butylbenzene | 104-51-8 | ND | 0.005 |
| Carbon disulfide | 75-15-0 | ND | 0.02 |
| Carbon tetrachloride | 56-23-5 | ND | 0.005 |
| Chlorobenzene | 108-90-7 | ND | 0.005 |
| Chloroethane | 75-00-3 | ND | 0.005 |
| 2-Chloroethylvinyl ether | 110-75-8 | ND | 0.005 |
| Chloroform | 67-66-3 | ND | 0.005 |
| Chloromethane | 74-87-3 | ND | 0.005 |
| 2-Chlorotoluene | 95-49-8 | ND | 0.005 |
| 4-Chlorotoluene | 106-43-4 | ND | 0.005 |
| Dibromochloromethane | 124-48-1 | ND | 0.005 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ND | 0.02 |
| 1,2-Dibromoethane | 106-93-4 | ND | 0.005 |
| Dibromomethane | 74-95-3 | ND | 0.005 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 0.005 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 0.005 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 0.005 |
| Dichlorodifluoromethane | 75-71-8 | ND | 0.005 |
| 1,1-Dichloroethane | 75-34-3 | ND | 0.005 |
| 1,2-Dichloroethane | 107-06-2 | ND | 0.005 |
| 1,1-Dichloroethene | 75-35-4 | ND | 0.005 |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | METHOD BLANK | Date Sampled: | -- |
| Lab Number: | 9604483-05A | Date Received: | -- |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 0.005 |
| 1,2-Dichloropropane | 78-87-5 | ND | 0.005 |
| 1,3-Dichloropropane | 142-28-9 | ND | 0.005 |
| 2,2-Dichloropropane | 594-20-7 | ND | 0.005 |
| 1,1-Dichloropropene | 563-58-6 | ND | 0.005 |
| cis-1,3-dichloropropene | 10061-01-5 | ND | 0.005 |
| trans-1,3-dichloropropene | 10061-02-6 | ND | 0.005 |
| Ethylbenzene | 100-41-4 | ND | 0.005 |
| Freon 113 | 76-13-1 | ND | 0.005 |
| Hexachlorobutadiene | 87-68-3 | ND | 0.005 |
| 2-Hexanone | 591-78-6 | ND | 0.02 |
| Isopropylbenzene | 98-82-8 | ND | 0.005 |
| p-Isopropyltoluene | 99-87-6 | ND | 0.005 |
| Methylene chloride | 75-09-2 | ND | 0.005 |
| 4-Methyl-2-pentanone | 108-10-1 | ND | 0.02 |
| Naphthalene | 91-20-3 | ND | 0.005 |
| n-Propylbenzene | 103-65-1 | ND | 0.005 |
| sec-Butylbenzene | 135-98-8 | ND | 0.005 |
| Styrene | 100-42-5 | ND | 0.005 |
| tert-Butylbenzene | 98-06-6 | ND | 0.005 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ND | 0.005 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | 0.005 |
| Tetrachloroethene | 127-18-4 | ND | 0.005 |
| Toluene | 108-88-3 | ND | 0.005 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ND | 0.005 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 0.005 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | 0.005 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | 0.005 |
| Trichloroethene | 79-01-6 | ND | 0.005 |
| Trichlorofluoromethane | 75-69-4 | ND | 0.005 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | METHOD BLANK | Date Sampled: | -- |
| Lab Number: | 9604483-05A | Date Received: | -- |
| Sample Matrix/Media: | SOIL | Date Prepared: | 04/30/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/30/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (mg/kg) | Method Detection Limit (mg/kg) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| 1,2,3-Trichloropropane | 96-18-4 | ND | 0.005 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | 0.005 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | 0.005 |
| Vinyl acetate | 108-05-4 | ND | 0.02 |
| Vinyl chloride | 75-01-4 | ND | 0.005 |
| o-Xylene | 95-47-6 | ND | 0.005 |
| p,m-Xylenes | -- | ND | 0.005 |
| Surrogates | | Recovery (%) | QC Limits (%) |
| 4-Bromofluorobenzene | 460-00-4 | 86 | 74 - 121 |
| Dibromofluoromethane | 1868-53-7 | 94 | 80 - 120 |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 83 | 70 - 121 |
| Toluene-d8 | 2037-26-5 | 87 | 81 - 117 |

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB006W | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-03A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | WATER | Date Prepared: | 04/29/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/29/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (ug/L) | Method Detection Limit (ug/L) |
|---|---|---|---|
| Volatile Organic Compounds | | | |
| Acetone | 67-64-1 | ND | 20 |
| Benzene | 71-43-2 | ND | 5 |
| Bromobenzene | 108-86-1 | ND | 5 |
| Bromochloromethane | 74-97-5 | ND | 5 |
| Bromodichloromethane | 75-27-4 | ND | 5 |
| Bromoform | 75-25-2 | ND | 5 |
| Bromomethane | 74-83-9 | ND | 5 |
| 2-Butanone | 78-93-3 | ND | 20 |
| n-Butylbenzene | 104-51-8 | ND | 5 |
| Carbon disulfide | 75-15-0 | ND | 5 |
| Carbon tetrachloride | 56-23-5 | ND | 5 |
| Chlorobenzene | 108-90-7 | ND | 5 |
| Chloroethane | 75-00-3 | ND | 5 |
| 2-Chloroethylvinyl ether | 110-75-8 | ND | 5 |
| Chloroform | 67-66-3 | ND | 5 |
| Chloromethane | 74-87-3 | ND | 5 |
| 2-Chlorotoluene | 95-49-8 | ND | 5 |
| 4-Chlorotoluene | 106-43-4 | ND | 5 |
| Dibromochloromethane | 124-48-1 | ND | 5 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ND | 5 |
| 1,2-Dibromoethane | 106-93-4 | ND | 5 |
| Dibromomethane | 74-95-3 | ND | 5 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 5 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 5 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 5 |
| Dichlorodifluoromethane | 75-71-8 | ND | 5 |
| 1,1-Dichloroethane | 75-34-3 | ND | 5 |
| 1,2-Dichloroethane | 107-06-2 | ND | 5 |
| 1,1-Dichloroethene | 75-35-4 | ND | 5 |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 5 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB006W | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-03A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | WATER | Date Prepared: | 04/29/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/29/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (ug/L) | Method Detection Limit (ug/L) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 5 |
| 1,2-Dichloropropane | 78-87-5 | ND | 5 |
| 1,3-Dichloropropane | 142-28-9 | ND | 5 |
| 2,2-Dichloropropane | 594-20-7 | ND | 5 |
| 1,1-Dichloropropene | 563-58-6 | ND | 5 |
| cis-1,3-dichloropropene | 10061-01-5 | ND | 5 |
| trans-1,3-dichloropropene | 10061-02-6 | ND | 5 |
| Ethylbenzene | 100-41-4 | ND | 5 |
| Freon 113 | 76-13-1 | ND | 5 |
| Hexachlorobutadiene | 87-68-3 | ND | 5 |
| 2-Hexanone | 591-78-6 | ND | 20 |
| Isopropylbenzene | 98-82-8 | ND | 5 |
| p-Isopropyltoluene | 99-87-6 | ND | 5 |
| Methylene chloride | 75-09-2 | ND | 5 |
| 4-Methyl-2-pentanone | 108-10-1 | ND | 20 |
| Naphthalene | 91-20-3 | ND | 5 |
| n-Propylbenzene | 103-65-1 | ND | 5 |
| sec-Butylbenzene | 135-98-8 | ND | 5 |
| Styrene | 100-42-5 | ND | 5 |
| tert-Butylbenzene | 98-06-6 | ND | 5 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ND | 5 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | 5 |
| Tetrachloroethene | 127-18-4 | ND | 5 |
| Toluene | 108-88-3 | ND | 5 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ND | 5 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 5 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | 5 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | 5 |
| Trichloroethene | 79-01-6 | ND | 5 |
| Trichlorofluoromethane | 75-69-4 | ND | 5 |

Clayton ENVIRONMENTAL CONSULTANTS

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | SB006W | Date Sampled: | 04/23/96 |
| Lab Number: | 9604483-03A | Date Received: | 04/29/96 |
| Sample Matrix/Media: | WATER | Date Prepared: | 04/29/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/29/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (ug/L) | Method Detection Limit (ug/L) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| 1,2,3-Trichloropropane | 96-18-4 | ND | 5 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | 5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | 5 |
| Vinyl acetate | 108-05-4 | ND | 10 |
| Vinyl chloride | 75-01-4 | ND | 5 |
| o-Xylene | 95-47-6 | ND | 5 |
| p,m-Xylenes | -- | ND | 5 |
| Surrogates | | Recovery (%) | QC Limits (%) |
| 4-Bromofluorobenzene | 460-00-4 | 97 | 86 - 115 |
| Dibromofluoromethane | 1868-53-7 | 97 | 86 - 118 |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 96 | 76 - 114 |
| Toluene-d8 | 2037-26-5 | 98 | 88 - 110 |

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Clayton ENVIRONMENTAL CONSULTANTS

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | METHOD BLANK | Date Sampled: | -- |
| Lab Number: | 9604483-06A | Date Received: | -- |
| Sample Matrix/Media: | WATER | Date Prepared: | 04/29/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/29/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (ug/L) | Method Detection Limit (ug/L) |
|---|---|---|---|
| Volatile Organic Compounds | | | |
| Acetone | 67-64-1 | ND | 20 |
| Benzene | 71-43-2 | ND | 5 |
| Bromobenzene | 108-86-1 | ND | 5 |
| Bromochloromethane | 74-97-5 | ND | 5 |
| Bromodichloromethane | 75-27-4 | ND | 5 |
| Bromoform | 75-25-2 | ND | 5 |
| Bromomethane | 74-83-9 | ND | 5 |
| 2-Butanone | 78-93-3 | ND | 20 |
| n-Butylbenzene | 104-51-8 | ND | 5 |
| Carbon disulfide | 75-15-0 | ND | 5 |
| Carbon tetrachloride | 56-23-5 | ND | 5 |
| Chlorobenzene | 108-90-7 | ND | 5 |
| Chloroethane | 75-00-3 | ND | 5 |
| 2-Chloroethylvinyl ether | 110-75-8 | ND | 5 |
| Chloroform | 67-66-3 | ND | 5 |
| Chloromethane | 74-87-3 | ND | 5 |
| 2-Chlorotoluene | 95-49-8 | ND | 5 |
| 4-Chlorotoluene | 106-43-4 | ND | 5 |
| Dibromochloromethane | 124-48-1 | ND | 5 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ND | 5 |
| 1,2-Dibromoethane | 106-93-4 | ND | 5 |
| Dibromomethane | 74-95-3 | ND | 5 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 5 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 5 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 5 |
| Dichlorodifluoromethane | 75-71-8 | ND | 5 |
| 1,1-Dichloroethane | 75-34-3 | ND | 5 |
| 1,2-Dichloroethane | 107-06-2 | ND | 5 |
| 1,1-Dichloroethene | 75-35-4 | ND | 5 |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 5 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | METHOD BLANK | Date Sampled: | -- |
| Lab Number: | 9604483-06A | Date Received: | -- |
| Sample Matrix/Media: | WATER | Date Prepared: | 04/29/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/29/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (ug/L) | Method Detection Limit (ug/L) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 5 |
| 1,2-Dichloropropane | 78-87-5 | ND | 5 |
| 1,3-Dichloropropane | 142-28-9 | ND | 5 |
| 2,2-Dichloropropane | 594-20-7 | ND | 5 |
| 1,1-Dichloropropene | 563-58-6 | ND | 5 |
| cis-1,3-dichloropropene | 10061-01-5 | ND | 5 |
| trans-1,3-dichloropropene | 10061-02-6 | ND | 5 |
| Ethylbenzene | 100-41-4 | ND | 5 |
| Freon 113 | 76-13-1 | ND | 5 |
| Hexachlorobutadiene | 87-68-3 | ND | 5 |
| 2-Hexanone | 591-78-6 | ND | 20 |
| Isopropylbenzene | 98-82-8 | ND | 5 |
| p-Isopropyltoluene | 99-87-6 | ND | 5 |
| Methylene chloride | 75-09-2 | ND | 5 |
| 4-Methyl-2-pentanone | 108-10-1 | ND | 20 |
| Naphthalene | 91-20-3 | ND | 5 |
| n-Propylbenzene | 103-65-1 | ND | 5 |
| sec-Butylbenzene | 135-98-8 | ND | 5 |
| Styrene | 100-42-5 | ND | 5 |
| tert-Butylbenzene | 98-06-6 | ND | 5 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ND | 5 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | 5 |
| Tetrachloroethene | 127-18-4 | ND | 5 |
| Toluene | 108-88-3 | ND | 5 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ND | 5 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 5 |
| 1,1,1-Trichloroethane | 71-55-6 | ND | 5 |
| 1,1,2-Trichloroethane | 79-00-5 | ND | 5 |
| Trichloroethene | 79-01-6 | ND | 5 |
| Trichlorofluoromethane | 75-69-4 | ND | 5 |

Analytical Results
for
Superior Analytical Laboratory
Client Reference: 21258/MSE960028
Clayton Project No. 96044.83

| | | | |
|---|---|---|---|
| Sample Identification: | METHOD BLANK | Date Sampled: | -- |
| Lab Number: | 9604483-06A | Date Received: | -- |
| Sample Matrix/Media: | WATER | Date Prepared: | 04/29/96 |
| Preparation Method: | EPA 5030A | Date Analyzed: | 04/29/96 |
| Method Reference: | EPA 8260A | Analyst: | JP |

| Analyte | CAS # | Concentration (ug/L) | Method Detection Limit (ug/L) |
|---|---|---|---|
| Volatile Organic Compounds (Continued) | | | |
| 1,2,3-Trichloropropane | 96-18-4 | ND | 5 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | 5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | 5 |
| Vinyl acetate | 108-05-4 | ND | 10 |
| Vinyl chloride | 75-01-4 | ND | 5 |
| o-Xylene | 95-47-6 | ND | 5 |
| p,m-Xylenes | -- | ND | 5 |
| Surrogates | | Recovery (%) | QC Limits (%) |
| 4-Bromofluorobenzene | 460-00-4 | 101 | 86 - 115 |
| Dibromofluoromethane | 1868-53-7 | 101 | 86 - 118 |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 106 | 76 - 114 |
| Toluene-d8 | 2037-26-5 | 99 | 88 - 110 |

ND: Not detected at or above limit of detection
--: Information not available or not applicable