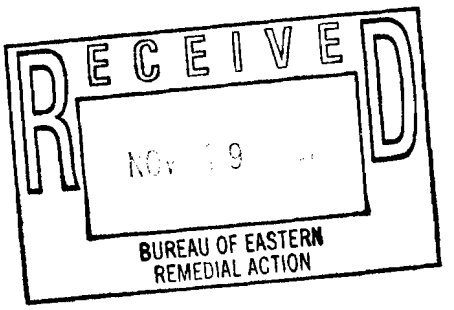
Hull & associates, inc.




November 9, 2001

Mr. Joseph Jones
New York State Department of Environmental Conservation
11th Floor
625 Broadway
Albany, NY 12233-7010

RE: Progress Report #2 for October 19, 2001 through November 9, 2001 for the Focused Groundwater Remediation at the NYSDEC Site Code #130043A in Westbury, New York (Site).
NMB008.200.0007

Dear Mr. Jones:

Pursuant to Section III of the April 23, 2001 Consent Order, Index #1-W1-0750-00-03 (the Order), Hull & Associates, Inc. (Hull), on behalf of the Respondents, hereby submits a summary of activities undertaken at the above referenced site during the period of October 19 through November 9, 2001.

1. Descriptions of the Actions During this Reporting Period

ISOTEC of West Windsor, New Jersey completed laboratory treatability studies using soils and groundwater collected from the Site.

2. Results of Sampling

On November 7, Lancaster Laboratories submitted testing results for baseline groundwater samples collected from groundwater monitoring wells and reagent application wells. Locations of the wells in the vicinity of Area 2 are shown on Figure 1 in Attachment A. Wells located outside of Area 2 are shown on Plate 1 in the April 2001 Focused Groundwater Remediation Work Plan (Hull Document # NMB007.200.0035). A summary of analytical results is provided in Attachment B. Laboratory reports and chain-of-custody documentation are included in Attachment C. Groundwater analytical results indicate relatively low concentrations of volatile organic compounds (VOCs) in most of the monitoring wells and application wells. However, a sample from collected application AW-2U, located directly beneath a leaching pool in Area 2, contained 4,000 ug/L of tetrachloroethene.

On November 9, ISOTEC submitted a Laboratory Treatability Report to Hull. The report is included in Attachment D. Results of ISOTEC's testing indicate that greater than 99% destruction of VOCs may be achievable using their in situ chemical oxidation process.

3. Deliverables Completed and Submitted During this Reporting Period

There were no scheduled deliverables completed during this reporting period.

4700 Duke Drive, Suite 172 • Mason, Ohio 45040
513.459.9677 fax 513.459.9869 www.hullinc.com

4. Actions scheduled in the Next Reporting Period

Hull is working with ISOTEC to identify a date to initiate pilot testing at the Site. Pursuant to the Order, Section XVI.D, Hull will notify the NYSDEC on behalf of IMC Eastern of the proposed date for start-up of the pilot study at least 10 working days in advance of the field activities.

5. Percent Complete, Summary of Unresolved Delays and Efforts to Mitigate Delays

The focused groundwater remediation is approximately 25% complete. There were no unresolved delays during this reporting period.

6. Modifications to the Work Plan

There were no modifications to the Work Plan made during this reporting period.

If you have any questions, please contact me at (513) 459-9677.

Sincerely,

W. Lance Turley

W. Lance Turley, P.G.

WLT/klf

ct: Chittibabu Vasudevan, Ph.D., P.E., NYSDEC
Ray Cowen, Director, NYSDEC
G. Anders Carlson, Ph.D., NY State Department of Health
Sue Gornick, IMC Eastern, c/o NMB(USA) Inc. Legal Department
John Peltonen, Esq., Shehan Phinney Bass + Green
Anthony Fierontine, Handex of New York
Hull Internal Copies

# ATTACHMENT A

# GROUNDWATER MONITORING WELL AND APPLICATION WELL LOCATIONS IN THE VICINITY OF AREA 2

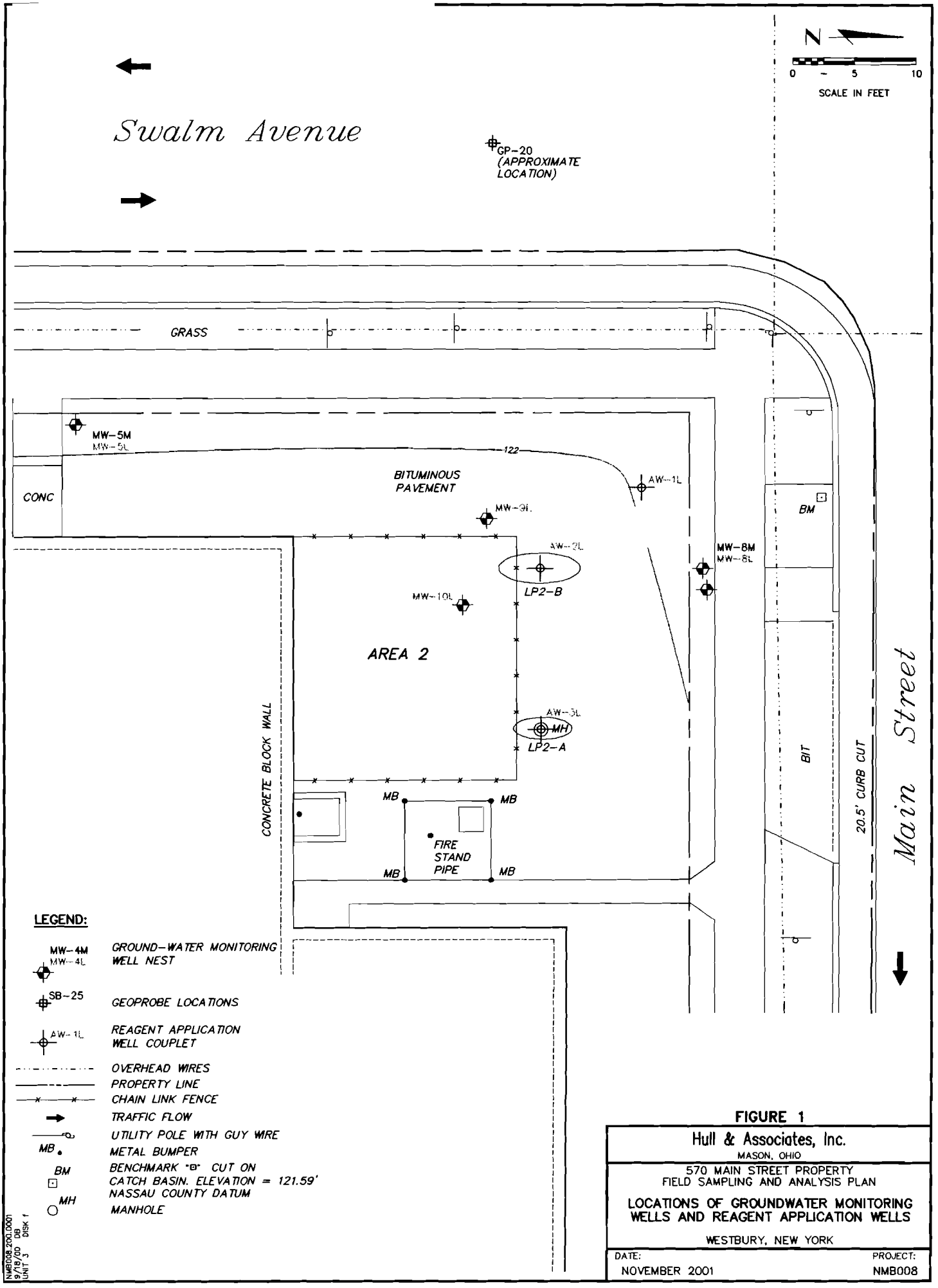



**FIGURE 1**

Hull & Associates, Inc.
MASON, OHIO

570 MAIN STREET PROPERTY
FIELD SAMPLING AND ANALYSIS PLAN

**LOCATIONS OF GROUNDWATER MONITORING WELLS AND REAGENT APPLICATION WELLS**

WESTBURY, NEW YORK

| DATE: | PROJECT: |
|---|---|
| NOVEMBER 2001 | NMB008 |

# ATTACHMENT B

## SUMMARY OF BASELINE GROUNDWATER ANALYTICAL RESULTS
## DETECTED ANALYTES
## SEPTEMBER 29 THROUGH OCTOBER 1, 2001 SAMPLING EVENT

**Focused Ground-Water Remediation**
**Former IMC Magnetics Facility**
**Westbury, New York**

**Table 1**

**Summary of Baseline Groundwater Analytical Results - Detected Analytes**
**September 29 through October 1, 2001 Sampling Event**

| ANALYTE | ANALYTICAL RESULTS FOR VOCs (ug/L) - SW-846 Method 8021B<br>GROUNDWATER MONITORING WELLS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | MW-3 | MW-3 (Dup) | MW-4U | MW-4M | MW-4L | MW-4L (Dup) | MW-5U | MW-5M | MW-5L |
| 1,1,1-TRICHLOROETHANE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **9.5** | **12** | <1.0 | **19** | **21** |
| 1,1-DICHLOROETHENE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **1.7** | **2.2** | <1.0 | **3.3** | **4.6** |
| 1,1-DICHLOROETHANE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **1.0** | <1.0 | **1.1** | **1.6** |
| CHLOROFORM | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| CIS-1,2-DICHLOROETHENE | <1.0 | **16** | **17** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TETRACHLOROETHENE | **2.8** | **26** | **27** | **4.5** | <1.0 | <1.0 | <1.0 | **19** | <1.0 | <1.0 |
| TOLUENE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TRICHLOROETHENE | <1.0 | **19** | **19** | **2.5** | <1.0 | <1.0 | <1.0 | **7.5** | <1.0 | <1.0 |
| **ANALYTE** | **ANALYTICAL RESULTS FOR INORGANIC ANALYTES (mg/L)** | | | | | | | | | |
| IRON(1.) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| TOTAL DISSOLVED SOLIDS(2.) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| TOTAL ORGANIC CARBON(3.) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| SULFATE(4.) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |

*Table Continues*

**Focused Ground-Water Remediation**
**Former IMC Magnetics Facility**
**Westbury, New York**

**Table 1 (Cont'd)**

**Summary of Baseline Groundwater Analytical Results - Detected Analytes**
**September 29 through October 1, 2001 Sampling Event**

| ANALYTE | ANALYTICAL RESULTS FOR VOCs (ug/L) - SW-846 Method 8021B<br>GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-6U | MW-6M | MW-6L | MW-7U | MW-7M | MW-7L | MW-8U | MW-8M | MW-8L | MW-9U | MW-9L |
| 1,1,1-TRICHLOROETHANE | <1.0 | **14** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **1.1** | **25** | <1.0 | <1.0 |
| 1,1-DICHLOROETHENE | <1.0 | **4.3** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **5.0** | <1.0 | <1.0 |
| 1,1-DICHLOROETHANE | <1.0 | **3.4** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **1.3** | <1.0 | <1.0 |
| CHLOROFORM | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **5.3** | **4.3** | <1.0 | <1.0 |
| CIS-1,2-DICHLOROETHENE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **2.5** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TETRACHLOROETHENE | **31** | **1.1** | <1.0 | **1.4** | **1.1** | **13** | **11** | **3.5** | **3.2** | **29** | **17** |
| TOLUENE | <1.0 | <1.0 | <1.0 | **2.9** | **5.8** | **4.4** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TRICHLOROETHENE | **3.9** | **1.0** | <1.0 | <1.0 | <1.0 | **6.0** | **2.5** | **1.1** | <1.0 | **1.9** | **1.8** |
| **ANALYTE** | **ANALYTICAL RESULTS FOR INORGANIC ANALYTES (mg/L)** | | | | | | | | | | |
| IRON(1.) | NT | NT | NT | NT | NT | NT | **29.7** | **1.31** | **1.6** | **5.78** | **0.434** |
| TOTAL DISSOLVED SOLIDS(2.) | NT | NT | NT | NT | NT | NT | **293** | **220** | **269** | **445** | **279** |
| TOTAL ORGANIC CARBON(3.) | NT | NT | NT | NT | NT | NT | **3.4** | **2.4** | **3.0** | **3.6** | **3.0** |
| SULFATE(4.) | NT | NT | NT | NT | NT | NT | <170 | **64** | **68** | **<250** | **76** |

*Table Continues*

**Focused Ground-Water Remediation**
**Former IMC Magnetics Facility**
**Westbury, New York**

**Table 1 (Cont'd)**

**Summary of Baseline Groundwater Analytical Results - Detected Analytes**
**September 29 through October 1, 2001 Sampling Event**

| ANALYTE | ANALYTICAL RESULTS FOR VOCs (ug/L) - SW-846 Method 8021B | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | GROUNDWATER MONITORING WELLS | | REAGENT APPLICATION WELLS | | | | | | |
| | MW-10U | MW-10L | AW-1U | AW-1U (Dup) | AW-1L | AW-2U | AW-2L | AW-3U | AW-3L |
| 1,1,1-TRICHLOROETHANE | <1.0 | <1.0 | 1.6 | 1.6 | 11 | <100 | <10 | <1.0 | <1.0 |
| 1,1-DICHLOROETHENE | <1.0 | <1.0 | <1.0 | <1.0 | 2.4 | <100 | <10 | <1.0 | <1.0 |
| 1,1-DICHLOROETHANE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <100 | <10 | <1.0 | <1.0 |
| CHLOROFORM | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <100 | <10 | <1.0 | <1.0 |
| CIS-1,2-DICHLOROETHENE | <1.0 | <1.0 | 1.5 | 2.4 | <1.0 | <100 | <10 | 4.3 | 1.3 |
| TETRACHLOROETHENE | 76 | 17 | 10 | 16 | 16 | 4,000 | 460 | 22 | 14 |
| TOLUENE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <100 | <10 | <1.0 | <1.0 |
| TRICHLOROETHENE | <1.0 | <1.0 | 2.2 | 2.8 | <1.0 | <100 | <10 | 2.5 | <1.0 |
| **ANALYTE** | **ANALYTICAL RESULTS FOR INORGANIC ANALYTES (mg/L)** | | | | | | | | |
| IRON(1.) | 578 | 0.423 | 58.3 | 103 | 0.464 | 4.84 | 1.62 | 0.765 | 0.974 |
| TOTAL DISSOLVED SOLIDS(2.) | 850 | 257 | 318 | 321 | 213 | 592 | 212 | 335 | 252 |
| TOTAL ORGANIC CARBON(3.) | 7.4 | 3.2 | 3.2 | 2.5 | 2.2 | 3.4 | 2.2 | 4.3 | 2.6 |
| SULFATE(4.) | <2,500 | 76 | <100 | <170 | 50 | 190 | 53 | 180 | 56 |

**Notes:**

NT - Not Tested
(1.) - Analyzed using SW0846 Method 7380
(2.) - Analyzed using EPA Method 160.1
(3.) - Analyzed using WE-846 Method 9060
(4.) - Analyzed using EPA Method 375.4 (terbidimetric)

# ATTACHMENT C

# LANCASTER LABORATORIES ANALYTICAL REPORT FOR THE SEPTEMBER 29 THROUGH OCTOBER 1, 2001 SAMPLING EVENT

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 780796. Samples arrived at the laboratory on Thursday, October 04, 2001.

| Client Description | Lancaster Labs Number |
|---|---|
| NMB007:MW-6L:G092801 Grab Water Sample | 3699890 |
| NMB007:MW-7U:G092801 Grab Water Sample | 3699891 |
| NMB007:MW-7M:G092801 Grab Water Sample | 3699892 |
| NMB007:MW-7L:G092801 Grab Water Sample | 3699893 |
| NMB007:MW-8U:G100101 Grab Water Sample | 3699894 |
| NMB007:MW-8M:G100101 Grab Water Sample | 3699895 |
| NMB007:MW-8L:G100101 Grab Water Sample | 3699896 |
| NMB007:MW-9U:G100101 Grab Water Sample | 3699897 |
| NMB007:MW-9L:G100101 Grab Water Sample | 3699898 |
| NMB007:MW-10U:G100101 Grab Water Sample | 3699899 |
| NMB007:MW-10L:G100101 Grab Water Sample | 3699900 |
| Field Blank Grab Water Sample | 3699901 |
| Trip Blank Water Sample | 3699902 |
| NMB007:AW-1U:G100101B Grab Water Sample | 3699903 |

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

| | | |
|---|---|---|
| 1 COPY TO | Hull & Associates | Attn: Mr. Bill Dennis |
| 1 COPY TO | Data Package Group | |

Lancaster Laboratories
*Where quality is a science.*

Questions? Contact Environmental Client Services
at (717) 656-2300.

Respectfully Submitted,

Erik J. Frederiksen
Group Leader

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699890**

Collected:09/28/2001 12:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:47
Discard: 10/30/2001
NMB007:MW-6L:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-6L SDG#: HUL02-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699890**

Collected:09/28/2001 12:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:47
Discard: 10/30/2Q01
NMB007:MW-6L:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-6L SDG#: HUL02-01

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 08:21 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 08:21 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699891**

Collected:09/28/2001 12:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-7U:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-7U SDG#: HUL02-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
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| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 1.4 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | 2.9 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699891**

Collected:09/28/2001 12:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
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NMB007:MW-7U:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-7U SDG#: HUL02-02

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 08:59 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 08:59 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699892**

Collected:09/28/2001 11:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-7M:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-7M SDG#: HUL02-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 1.1 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | 5.8 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699892**

Collected:09/28/2001 11:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-7M:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-7M SDG#: HUL02-03

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 09:36 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 09:36 | Todd T. Smythe | n.a. |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699893**

Collected:09/28/2001 11:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-7L:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-7L SDG#: HUL02-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 2.5 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 6.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 13. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | 4.4 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699893**

Collected:09/28/2001 11:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-7L:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-7L SDG#: HUL02-04

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 10:14 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 10:14 | Todd T. Smythe | n.a. |

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699894**

Collected:10/01/2001 14:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-8U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-8U SDG#: HUL02-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 29.7 | 2.00 | mg/l | 20 |
| 00212 | Total Dissolved Solids | n.a. | 293. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.4 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 3.1 mg/l | | | | | |
| | 3.1 mg/l | | | | | |
| | 3.7 mg/l | | | | | |
| | 3.7 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | < 170. | 170. | mg/l | 33.33333 |
| | Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased. | | | | | |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 2.5 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699894**

Collected:10/01/2001 14:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-8U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-8U SDG#: HUL02-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 11. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:24 | Deborah A. Krady | 20 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 14:27 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 33.333 33 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 23:04 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 23:04 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699895**

Collected:10/01/2001 13:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-8M:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-8M SDG#: HUL02-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 1.31 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 220. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 2.4 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 2.3 mg/l | | | | | |
| | 2.6 mg/l | | | | | |
| | 2.1 mg/l | | | | | |
| | 2.6 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric). | 14808-79-8 | 64. | 10. | mg/l | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | 5.3 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 1.1 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 1.1 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699895**

Collected:10/01/2001 13:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-8M:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-8M SDG#: HUL02-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 3.5 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:24 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 15:15 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 19:47 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 19:47 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699896**

Collected:10/01/2001 13:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-8L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-8L SDG#: HUL02-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 1.60 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 269. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.0 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 2.9 mg/l | | | | | |
| | 2.9 mg/l | | | | | |
| | 2.2 mg/l | | | | | |
| | 4.0 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 68. | 10. | mg/l | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 5.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | 1.3 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | 4.3 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 25. | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699896**

Collected:10/01/2001 13:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-8L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-8L SDG#: HUL02-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 3.2 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:25 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 15:48 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 23:41 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 23:41 | Todd T. Smythe | n.a. |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699897**

Collected:10/01/2001 14:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-9U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-9U SDG#: HUL02-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 5.78 | 0.500 | mg/l | 5 |
| 00212 | Total Dissolved Solids | n.a. | 445. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.6 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 3.4 mg/l | | | | | |
| | 4.0 mg/l | | | | | |
| | 3.6 mg/l | | | | | |
| | 3.6 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | < 250. | 250. | mg/l | 50 |
| | Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased. | | | | | |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 1.9 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699897**

Collected:10/01/2001 14:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-9U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-9U SDG#: HUL02-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 29. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:27 | Deborah A. Krady | 5 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 16:36 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 50 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/11/2001 00:19 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/11/2001 00:19 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699898**

Collected:10/01/2001 14:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-9L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-9L SDG#: HUL02-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 0.434 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 279. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.0 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 3.1 mg/l | | | | | |
| | 2.5 mg/l | | | | | |
| | 3.5 mg/l | | | | | |
| | 2.7 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 76. | 10. | mg/l | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 1.8 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699898**

Collected:10/01/2001 14:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-9L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-9L SDG#: HUL02-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 17. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:27 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 17:08 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/11/2001 00:56 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/11/2001 00:56 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699899**

Collected:10/01/2001 15:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-10U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

W-10U SDG#: HUL02-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 578. | 50.0 | mg/l | 500 |
| 00212 | Total Dissolved Solids | n.a. | 850. | 120. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 7.4 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 7.6 mg/l | | | | | |
| | 7.2 mg/l | | | | | |
| | 7.2 mg/l | | | | | |
| | 7.5 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | < 2,500. | 2,500. | mg/l | 500 |
| | Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased. | | | | | |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 4.0 | 4.0 | ug/l | 2 |
| 08484 | Chloromethane | 74-87-3 | < 10. | 10. | ug/l | 2 |
| 08485 | Vinyl Chloride | 75-01-4 | < 2.0 | 2.0 | ug/l | 2 |
| 08487 | Bromomethane | 74-83-9 | < 10. | 10. | ug/l | 2 |
| 08488 | Chloroethane | 75-00-3 | < 2.0 | 2.0 | ug/l | 2 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 2.0 | 2.0 | ug/l | 2 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 2.0 | 2.0 | ug/l | 2 |
| 08492 | Methylene Chloride | 75-09-2 | < 2.0 | 2.0 | ug/l | 2 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 2.0 | 2.0 | ug/l | 2 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 2.0 | 2.0 | ug/l | 2 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 2.0 | 2.0 | ug/l | 2 |
| 08502 | Chloroform | 67-66-3 | < 2.0 | 2.0 | ug/l | 2 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 2.0 | 2.0 | ug/l | 2 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 2.0 | 2.0 | ug/l | 2 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 2.0 | 2.0 | ug/l | 2 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 2.0 | 2.0 | ug/l | 2 |
| 08512 | Trichloroethene | 79-01-6 | < 2.0 | 2.0 | ug/l | 2 |

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**Lancaster Laboratories Sample No. WW 3699899**

Collected:10/01/2001 15:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-10U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

W-10U SDG#: HUL02-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08514 | Bromodichloromethane | 75-27-4 | < 2.0 | 2.0 | ug/l | 2 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 2.0 | 2.0 | ug/l | 2 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 2.0 | 2.0 | ug/l | 2 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 2.0 | 2.0 | ug/l | 2 |
| 08520 | Dibromochloromethane | 124-48-1 | < 2.0 | 2.0 | ug/l | 2 |
| 08523 | Tetrachloroethene | 127-18-4 | 76. | 2.0 | ug/l | 2 |
| 08526 | Chlorobenzene | 108-90-7 | < 2.0 | 2.0 | ug/l | 2 |
| 08527 | Bromoform | 75-25-2 | < 2.0 | 2.0 | ug/l | 2 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 2.0 | 2.0 | ug/l | 2 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 2.0 | 2.0 | ug/l | 2 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 2.0 | 2.0 | ug/l | 2 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 2.0 | 2.0 | ug/l | 2 |
| 08541 | Benzene | 71-43-2 | < 2.0 | 2.0 | ug/l | 2 |
| 08543 | Toluene | 108-88-3 | < 2.0 | 2.0 | ug/l | 2 |
| 08545 | Ethylbenzene | 100-41-4 | < 2.0 | 2.0 | ug/l | 2 |
| 08561 | Xylene (total) | 1330-20-7 | < 6.0 | 6.0 | ug/l | 2 |

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Due to dilution of the sample made necessary by the high level of tetrachloroethene, normal reporting limits were not attained.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:38 | Deborah A. Krady | 500 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 17:57 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 500 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/08/2001 23:24 | Victoria M. Martell | 2 |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699899**

Collected:10/01/2001 15:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:48
Discard: 10/30/2001
NMB007:MW-10U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

W-10U SDG#: HUL02-10

| | | | | | | |
|---|---|---|---|---|---|---|
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/08/2001 23:24 | Victoria M. Martell | n.a. |

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**Lancaster Laboratories Sample No. WW 3699900**

Collected:10/01/2001 15:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
NMB007:MW-10L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

W-10L SDG#: HUL02-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 0.423 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 257. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.2 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 3.1 mg/l | | | | | |
| | 2.9 mg/l | | | | | |
| | 2.9 mg/l | | | | | |
| | 4.0 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 76. | 20. | mg/l | 4 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699900**

Collected:10/01/2001 15:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
NMB007:MW-10L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

W-10L SDG#: HUL02-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 17. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:39 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 18:29 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 4 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/11/2001 01:34 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/11/2001 01:34 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699901**

Collected:10/01/2001 16:10 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
Field Blank Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

NB7FB SDG#: HUL02-12FB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | < 0.100 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | < 30. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | < 2.0 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | .3 mg/l | | | | | |
| | .5 mg/l | | | | | |
| | .6 mg/l | | | | | |
| | 1.0 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | < 5.0 | 5.0 | mg/l | 1 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699901**

Collected:10/01/2001 16:10 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
Field Blank Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

NB7FB SDG#: HUL02-12FB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:39 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/15/2001 13:27 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 1 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 22:14 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 22:14 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699902**

Collected: n.a.

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
Trip Blank Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

NB7TB SDG#: HUL02-13TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699902**

Collected: n.a.

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
Trip Blank Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

NB7TB SDG#: HUL02-13TB*

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 05:52 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 05:52 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699903**

Collected:10/01/2001 12:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2Q01
NMB007:AW-1U:G100101B Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW1UB SDG#: HUL02-14*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 103. | 5.00 | mg/l | 50 |
| 00212 | Total Dissolved Solids | n.a. | 321. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 2.5 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 2.4 mg/l | | | | | |
| | 2.7 mg/l | | | | | |
| | 2.6 mg/l | | | | | |
| | 2.5 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | < 170. | 170. | mg/l | 33.33333 |
| | Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased. | | | | | |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 2.4 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 1.6 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 2.8 | 1.0 | ug/l | 1 |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699903**

Collected:10/01/2001 12:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/22/2001 at 05:49
Discard: 10/30/2001
NMB007:AW-1U:G100101B Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW1UB SDG#: HUL02-14*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 16. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:40 | Deborah A. Krady | 50 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/08/2001 10:16 | Anne L. Kuenzli | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/15/2001 14:00 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/18/2001 09:52 | Susan A. Engle | 33.333 33 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/11/2001 02:12 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/11/2001 02:12 | Todd T. Smythe | n.a. |

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ANALYTICAL RESULTS

Prepared for:

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

513-459-9677

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 780781. Samples arrived at the laboratory on Thursday, October 04, 2001.

| Client Description | Lancaster Labs Number |
|---|---|
| NMB007:MW-1:G100101 Grab Water Sample | 3699795 |
| NMB007:MW-3:G092801A Grab Water Sample | 3699796 |
| NMB007:MW-3:G092801B Grab Water Sample | 3699797 |
| NMB007:AW-1U:G100101A Grab Water Sample | 3699798 |
| NMB007:AW-1L:G100101 Grab Water Sample | 3699801 |
| NMB007:AW-2U:G100101 Grab Water Sample | 3699802 |
| NMB007:AW-2L:G100101 Grab Water Sample | 3699803 |
| NMB007:AW-3U:G100101 Grab Water Sample | 3699804 |
| NMB007:AW-3L:G100101 Grab Water Sample | 3699805 |
| NMB007:MW-4U:G100101 Grab Water Sample | 3699806 |
| NMB007:MW-4M:G100101 Grab Water Sample | 3699807 |
| NMB007:MW-4L:G100101A Grab Water Sample | 3699808 |
| NMB007:MW-4L:G100101B Grab Water Sample | 3699809 |
| NMB007:MW-5U:G092801 Grab Water Sample | 3699810 |
| Field Blank Grab Water Sample | 3699811 |
| NMB007:MW-5M:G092801 Grab Water Sample | 3699812 |
| NMB007:MW-5L:G092801 Grab Water Sample | 3699813 |
| NMB007:MW-6U:G092801 Grab Water Sample | 3699814 |
| NMB007:MW-6M:G092801 Grab Water Sample | 3699815 |

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Hull & Associates Attn: Mr. Bill Dennis

Lancaster Laboratories
Where quality is a science.

1 COPY TO Data Package Group

Questions? Contact Environmental Client Services
at (717) 656-2300.

Respectfully Submitted,

Matthew E. Barton
Sr. Chemist/Coordinator

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699795**

Collected:10/01/2001 11:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2001
NMB007:MW-1:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW1G1 SDG#: HUL01-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 2.8 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699795**

Collected:10/01/2001 11:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/12/2001 at 12:24
Discard: 10/31/2001
NMB007:MW-1:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW1G1 SDG#: HUL01-01

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 14:48 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 14:48 | Todd T. Smythe | n.a. |



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699796**

Collected:09/28/2001 09:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2001
NMB007:MW-3:G092801A Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW3GA SDG#: HUL01-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 16. | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 19. | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 2.0 | 2.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 26. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Due to presence of trichloroethene, normal reporting limits were not

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**Lancaster Laboratories Sample No. WW 3699796**

Collected:09/28/2001 09:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2001
NMB007:MW-3:G092801A Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW3GA SDG#: HUL01-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|

attained for bromodichloromethane.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 10:52 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 10:52 | Todd T. Smythe | n.a. |

# Analysis Report

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699797**

Collected:09/28/2001 09:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2Q01
NMB007:MW-3:G092801B Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW3GB SDG#: HUL01-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 17. | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 19. | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 2.0 | 2.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 27. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

The vial submitted for volatile analysis did not have a pH < 2 at the time

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699797**

Collected:09/28/2001 09:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2Q01
NMB007:MW-3:G092801B Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW3GB SDG#: HUL01-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|

of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Due to presence of trichloroethene, normal reporting limits were not attained for bromodichloromethane.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 00:01 | Victoria M. Martell | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 00:01 | Victoria M. Martell | n.a. |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699798**

Collected:10/01/2001 12:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2001
NMB007:AW-1U:G100101A Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW1UA SDG#: HUL01-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 58.3 | 2.00 | mg/l | 20 |
| 00212 | Total Dissolved Solids | n.a. | 318. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.2 | 2.0 | mg/l | 1 |

EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials:

3.4 mg/l
3.4 mg/l
3.0 mg/l
2.9 mg/l

The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC".

| | | | | | | |
|---|---|---|---|---|---|---|
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | < 100. | 100. | mg/l | 20 |

Due to interferences from the sample matrix, the reporting limit for the sulfate determination was increased.

| | | | | | | |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 1.5 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 1.6 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 2.2 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699798**

Collected:10/01/2001 12:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2Q01
NMB007:AW-1U:G100101A Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW1UA SDG#: HUL01-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 10. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:12 | Deborah A. Krady | 20 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 10:08 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/16/2001 12:37 | Susan A. Engle | 20 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 15:25 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 15:25 | Todd T. Smythe | n.a. |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699801**

Collected:10/01/2001 12:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2001
NMB007:AW-1L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-1L SDG#: HUL01-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 0.464 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 213. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 2.2 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 2.3 mg/l | | | | | |
| | 2.6 mg/l | | | | | |
| | 1.9 mg/l | | | | | |
| | 1.8 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 50. | 10. | mg/l | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 2.4 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 11. | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699801**

Collected:10/01/2001 12:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:24
Discard: 10/31/2001
NMB007:AW-1L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-1L SDG#: HUL01-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 16. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:19 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 11:13 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/16/2001 12:37 | Susan A. Engle | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 16:02 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 16:02 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699802**

Collected:10/01/2001 16:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2001
NMB007:AW-2U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-2U SDG#: HUL01-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 4.84 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 592. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 3.4 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 3.3 mg/l | | | | | |
| | 3.3 mg/l | | | | | |
| | 3.7 mg/l | | | | | |
| | 3.4 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 190. | 100. | mg/l | 20 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 200. | 200. | ug/l | 100 |
| 08484 | Chloromethane | 74-87-3 | < 500. | 500. | ug/l | 100 |
| 08485 | Vinyl Chloride | 75-01-4 | < 100. | 100. | ug/l | 100 |
| 08487 | Bromomethane | 74-83-9 | < 500. | 500. | ug/l | 100 |
| 08488 | Chloroethane | 75-00-3 | < 100. | 100. | ug/l | 100 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 100. | 100. | ug/l | 100 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 100. | 100. | ug/l | 100 |
| 08492 | Methylene Chloride | 75-09-2 | < 100. | 100. | ug/l | 100 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 100. | 100. | ug/l | 100 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 100. | 100. | ug/l | 100 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 100. | 100. | ug/l | 100 |
| 08502 | Chloroform | 67-66-3 | < 100. | 100. | ug/l | 100 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 100. | 100. | ug/l | 100 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 100. | 100. | ug/l | 100 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 100. | 100. | ug/l | 100 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 100. | 100. | ug/l | 100 |
| 08512 | Trichloroethene | 79-01-6 | < 100. | 100. | ug/l | 100 |
| 08514 | Bromodichloromethane | 75-27-4 | < 100. | 100. | ug/l | 100 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 100. | 100. | ug/l | 100 |

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**Lancaster Laboratories Sample No. WW 3699802**

Collected:10/01/2001 16:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2001
NMB007:AW-2U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-2U SDG#: HUL01-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 100. | 100. | ug/l | 100 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 100. | 100. | ug/l | 100 |
| 08520 | Dibromochloromethane | 124-48-1 | < 100. | 100. | ug/l | 100 |
| 08523 | Tetrachloroethene | 127-18-4 | 4,000. | 100. | ug/l | 100 |
| 08526 | Chlorobenzene | 108-90-7 | < 100. | 100. | ug/l | 100 |
| 08527 | Bromoform | 75-25-2 | < 100. | 100. | ug/l | 100 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 100. | 100. | ug/l | 100 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 100. | 100. | ug/l | 100 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 100. | 100. | ug/l | 100 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 100. | 100. | ug/l | 100 |
| 08541 | Benzene | 71-43-2 | < 100. | 100. | ug/l | 100 |
| 08543 | Toluene | 108-88-3 | < 100. | 100. | ug/l | 100 |
| 08545 | Ethylbenzene | 100-41-4 | < 100. | 100. | ug/l | 100 |
| 08561 | Xylene (total) | 1330-20-7 | < 300. | 300. | ug/l | 100 |

Due to dilution of the sample made necessary by the high level of tetrachloroethene, normal reporting limits were not attained.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:19 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 11:45 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/16/2001 12:37 | Susan A. Engle | 20 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 09:31 | Todd T. Smythe | 100 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 09:31 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699803**

Collected:10/01/2001 15:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2001
NMB007:AW-2L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-2L SDG#: HUL01-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 1.62 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 212. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 2.2 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 2.1 mg/l | | | | | |
| | 2.0 mg/l | | | | | |
| | 2.5 mg/l | | | | | |
| | 2.0 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 53. | 10. | mg/l | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 20. | 20. | ug/l | 10 |
| 08484 | Chloromethane | 74-87-3 | < 50. | 50. | ug/l | 10 |
| 08485 | Vinyl Chloride | 75-01-4 | < 10. | 10. | ug/l | 10 |
| 08487 | Bromomethane | 74-83-9 | < 50. | 50. | ug/l | 10 |
| 08488 | Chloroethane | 75-00-3 | < 10. | 10. | ug/l | 10 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 10. | 10. | ug/l | 10 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 10. | 10. | ug/l | 10 |
| 08492 | Methylene Chloride | 75-09-2 | < 10. | 10. | ug/l | 10 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 10. | 10. | ug/l | 10 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 10. | 10. | ug/l | 10 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 10. | 10. | ug/l | 10 |
| 08502 | Chloroform | 67-66-3 | < 10. | 10. | ug/l | 10 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 10. | 10. | ug/l | 10 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 10. | 10. | ug/l | 10 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 10. | 10. | ug/l | 10 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 10. | 10. | ug/l | 10 |
| 08512 | Trichloroethene | 79-01-6 | < 10. | 10. | ug/l | 10 |
| 08514 | Bromodichloromethane | 75-27-4 | < 10. | 10. | ug/l | 10 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 10. | 10. | ug/l | 10 |

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**Lancaster Laboratories Sample No. WW 3699803**

Collected:10/01/2001 15:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2001
NMB007:AW-2L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-2L SDG#: HUL01-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 10. | 10. | ug/l | 10 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 10. | 10. | ug/l | 10 |
| 08520 | Dibromochloromethane | 124-48-1 | < 10. | 10. | ug/l | 10 |
| 08523 | Tetrachloroethene | 127-18-4 | 460. | 10. | ug/l | 10 |
| 08526 | Chlorobenzene | 108-90-7 | < 10. | 10. | ug/l | 10 |
| 08527 | Bromoform | 75-25-2 | < 10. | 10. | ug/l | 10 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 10. | 10. | ug/l | 10 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 10. | 10. | ug/l | 10 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 10. | 10. | ug/l | 10 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 10. | 10. | ug/l | 10 |
| 08541 | Benzene | 71-43-2 | < 10. | 10. | ug/l | 10 |
| 08543 | Toluene | 108-88-3 | < 10. | 10. | ug/l | 10 |
| 08545 | Ethylbenzene | 100-41-4 | < 10. | 10. | ug/l | 10 |
| 08561 | Xylene (total) | 1330-20-7 | < 30. | 30. | ug/l | 10 |

Due to dilution of the sample made necessary by the high level of tetrachloroethene, normal reporting limits were not attained.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:21 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 12:34 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/16/2001 12:37 | Susan A. Engle | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 08:54 | Todd T. Smythe | 10 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 08:54 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699804**

Collected:10/01/2001 13:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2Q01
NMB007:AW-3U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-3U SDG#: HUL01-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 0.765 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 335. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 4.3 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 4.2 mg/l | | | | | |
| | 4.2 mg/l | | | | | |
| | 4.5 mg/l | | | | | |
| | 4.4 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 180. | 170. | mg/l | 33.33333 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 4.3 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 2.5 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699804**

Collected:10/01/2001 13:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2001
NMB007:AW-3U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-3U SDG#: HUL01-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 22. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:22 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 13:06 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/16/2001 12:37 | Susan A. Engle | 33.333 33 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 16:40 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 16:40 | Todd T. Smythe | n.a. |

Lancaster Laboratories
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**Lancaster Laboratories Sample No. WW 3699805**

Collected:10/01/2001 12:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2001
NMB007:AW-3L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-3L SDG#: HUL01-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | 7439-89-6 | 0.974 | 0.100 | mg/l | 1 |
| 00212 | Total Dissolved Solids | n.a. | 252. | 30. | mg/l | 1 |
| 00354 | Total Organic Carbon (Quad) | n.a. | 2.6 | 2.0 | mg/l | 1 |
| | EPA SW-846, Method 9060 requires total organic carbon (TOC) to be analyzed in quadruplicate. The reported result is the average of the following trials: | | | | | |
| | 3.0 mg/l | | | | | |
| | 2.7 mg/l | | | | | |
| | 2.3 mg/l | | | | | |
| | 2.5 mg/l | | | | | |
| | The Total Organic Carbon (TOC) result reported above was determined by measuring total carbon by a persulfate digestion/infrared detection method on an acidified sample which has been purged of inorganic carbon using nitrogen. It represents "non-purgeable TOC". | | | | | |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 56. | 10. | mg/l | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | 1.3 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699805**

Collected:10/01/2001 12:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:25
Discard: 10/31/2Q01
NMB007:AW-3L:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

AW-3L SDG#: HUL01-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 14. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 00254 | Iron | SW-846 7380 | 1 | 10/15/2001 14:22 | Deborah A. Krady | 1 |
| 00212 | Total Dissolved Solids | EPA 160.1 | 1 | 10/05/2001 08:23 | Susan A. Engle | 1 |
| 00354 | Total Organic Carbon (Quad) | SW-846 9060 | 1 | 10/11/2001 13:54 | Timothy M. Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 10/16/2001 12:37 | Susan A. Engle | 2 |
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 14:10 | Todd T. Smythe | 1 |
| 00820 | WW SW-846 FAA Digest (tot rec) | SW-846 3005A | 1 | 10/12/2001 09:43 | Denise K. Conners | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 14:10 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699806**

Collected:10/01/2001 10:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-4U SDG#: HUL01-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 2.5 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 4.5 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699806**

Collected:10/01/2001 10:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2Q01
NMB007:MW-4U:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-4U SDG#: HUL01-10

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 17:17 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 17:17 | Todd T. Smythe | n.a. |

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**Lancaster Laboratories Sample No. WW 3699807**

Collected:10/01/2001 10:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4M:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-4M SDG#: HUL01-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699807**

Collected:10/01/2001 10:15 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/[illegible]/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4M:G100101 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-4M SDG#: HUL01-11

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 17:55 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 17:55 | Todd T. Smythe | n.a. |

# Analysis Report

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699808**

Collected:10/01/2001 10:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4L:G100101A Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW4LA SDG#: HUL01-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 1.7 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 9.5 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699808**

Collected:10/01/2001 10:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4L:G100101A Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW4LA SDG#: HUL01-12

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 18:32 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 18:32 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699809**

Collected:10/01/2001 10:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4L:G100101B Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW4LB SDG#: HUL01-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 2.2 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 12. | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699809**

Collected:10/01/2001 10:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-4L:G100101B Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW4LB SDG#: HUL01-13

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 19:09 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 19:09 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699810**

Collected:09/28/2001 15:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-5U:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-5U SDG#: HUL01-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 7.5 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 19. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699810**

Collected:09/28/2001 15:45 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-5U:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-5U SDG#: HUL01-14

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 11:29 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 11:29 | Todd T. Smythe | n.a. |

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Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699811**

Collected:09/28/2001 16:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
Field Blank Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

NMBFB SDG#: HUL01-15FB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699811**

Collected:09/28/2001 16:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
Field Blank Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

NMBFB SDG#: HUL01-15FB

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 14:11 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 14:11 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699812**

Collected:09/28/2001 15:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-5M:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-5M SDG#: HUL01-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 3.3 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | 1.1 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 19. | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

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**Lancaster Laboratories Sample No. WW 3699812**

Collected:09/28/2001 15:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-5M:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-5M SDG#: HUL01-16

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 14:49 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 14:49 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699813**

Collected:09/28/2001 15:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-5L:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-5L SDG#: HUL01-17

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 4.6 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | 1.6 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 21. | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699813**

Collected:09/28/2001 15:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-5L:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-5L SDG#: HUL01-17

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 15:27 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 15:27 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699814**

Collected:09/28/2001 13:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-6U:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-6U SDG#: HUL01-18

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 3.9 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 31. | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699814**

Collected:09/28/2001 13:30 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-6U:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-6U SDG#: HUL01-18

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/09/2001 16:04 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/09/2001 16:04 | Todd T. Smythe | n.a. |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699815**

Collected:09/28/2001 13:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-6M:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-6M SDG#: HUL01-19*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | | | | | |
| 08483 | Dichlorodifluoromethane | 75-71-8 | < 2.0 | 2.0 | ug/l | 1 |
| 08484 | Chloromethane | 74-87-3 | < 5.0 | 5.0 | ug/l | 1 |
| 08485 | Vinyl Chloride | 75-01-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08487 | Bromomethane | 74-83-9 | < 5.0 | 5.0 | ug/l | 1 |
| 08488 | Chloroethane | 75-00-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08489 | Trichlorofluoromethane | 75-69-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08490 | 1,1-Dichloroethene | 75-35-4 | 4.3 | 1.0 | ug/l | 1 |
| 08492 | Methylene Chloride | 75-09-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08494 | trans-1,2-Dichloroethene | 156-60-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08496 | 1,1-Dichloroethane | 75-34-3 | 3.4 | 1.0 | ug/l | 1 |
| 08498 | cis-1,2-Dichloroethene | 156-59-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08502 | Chloroform | 67-66-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08504 | 1,2-Dichloroethane | 107-06-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08506 | 1,1,1-Trichloroethane | 71-55-6 | 14. | 1.0 | ug/l | 1 |
| 08509 | Carbon Tetrachloride | 56-23-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08511 | 1,2-Dichloropropane | 78-87-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08512 | Trichloroethene | 79-01-6 | 1.0 | 1.0 | ug/l | 1 |
| 08514 | Bromodichloromethane | 75-27-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08516 | cis-1,3-Dichloropropene | 10061-01-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08517 | trans-1,3-Dichloropropene | 10061-02-6 | < 1.0 | 1.0 | ug/l | 1 |
| 08518 | 1,1,2-Trichloroethane | 79-00-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08520 | Dibromochloromethane | 124-48-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08523 | Tetrachloroethene | 127-18-4 | 1.1 | 1.0 | ug/l | 1 |
| 08526 | Chlorobenzene | 108-90-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08527 | Bromoform | 75-25-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08528 | 1,1,2,2-Tetrachloroethane | 79-34-5 | < 1.0 | 1.0 | ug/l | 1 |
| 08533 | 1,3-Dichlorobenzene (m) | 541-73-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08534 | 1,4-Dichlorobenzene (p) | 106-46-7 | < 1.0 | 1.0 | ug/l | 1 |
| 08535 | 1,2-Dichlorobenzene (o) | 95-50-1 | < 1.0 | 1.0 | ug/l | 1 |
| 08541 | Benzene | 71-43-2 | < 1.0 | 1.0 | ug/l | 1 |
| 08543 | Toluene | 108-88-3 | < 1.0 | 1.0 | ug/l | 1 |
| 08545 | Ethylbenzene | 100-41-4 | < 1.0 | 1.0 | ug/l | 1 |
| 08561 | Xylene (total) | 1330-20-7 | < 3.0 | 3.0 | ug/l | 1 |

Lancaster Laboratories
Where quality is a science.



**Lancaster Laboratories Sample No. WW 3699815**

Collected:09/28/2001 13:00 by AF

Account Number: 10062

Submitted: 10/04/2001 09:00
Reported: 10/23/2001 at 12:26
Discard: 10/31/2001
NMB007:MW-6M:G092801 Grab Water Sample
IMC Magnetics - NY

Hull & Associates
6130 Wilcox Rd.
Dublin OH 43016

MW-6M SDG#: HUL01-19*

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08404 | Halocarbons/Aromatics by SW846 | SW-846 8021B | 1 | 10/10/2001 08:17 | Todd T. Smythe | 1 |
| 01127 | GC VOA Water Prep | SW-846 5030B | 1 | 10/10/2001 08:17 | Todd T. Smythe | n.a. |

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

# Analysis Request/Environmental Services Chain of Custody

Lancaster Laboratories
*Where quality is a science.*

For Lancaster Laboratories use only
Acct. # 10062 Sample # 3699890-905
+ 795-815

**Please print. Instructions on reverse side correspond with circled numbers.**

(1)
Client: Hull & Associates, Inc. Acct. #:
Project Name/#: IMC Magnetics PWSID #:
Project Manager: Lance Turley P.O.#
Sampler: A. Fornaro Quote #:
Name of state where samples were collected: NY

For lab use only
FSC:
SCR #: 1157264

(2) (3) (4) (5) (6)

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Matrix: Soil | Matrix: Water (Potable / NPDES) | Matrix: Other | Total # of Containers | 8021B | TOC | Fe | TDS & SO4 | Remarks | Temperature of samples upon receipt (if requested) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NMB007:MW-6L:G092801 | 9/28/01 | 12:30 | X | | | X | | 3 | X | | | | | |
| NMB007:MW-7U:G092801 | 9/28/01 | 12:00 | X | | | X | | 3 | X | | | | | |
| NMB007:MW-7M:G092801 | 9/28/01 | 11:45 | X | | | X | | 3 | X | | | | | |
| NMB007:MW-7L:G092801 | 9/28/01 | 11:30 | X | | | X | | 3 | X | | | | | |
| NMB007:MW-8U:G100101 | 10/1/01 | 2:00 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:MW-8M:G100101 | 10/1/01 | 1:45 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:MW-8L:G100101 | 10/1/01 | 1:30 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:MW-9U:G100101 | 10/1/01 | 2:45 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:MW-9L:G100101 | 10/1/01 | 2:30 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:MW-10U:G100101 | 10/1/01 | 3:15 | X | | | X | | 9 | X | X | X | X | | |

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) **Data Package Options** (please circle if requested)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? Yes No

(9)

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| L. Hetrick | 9/19/01 | 1500 | | | |
| | 10/4/01 | 1500 | | | |
| | | | | | |
| | | | | | |
| | | | Jess Zook | 10/4/01 | 0900 |

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

2102 Rev. 3/7/01

# Analysis Request/Environmental Services Chain of Custody

Lancaster Laboratories
*Where quality is a science.*

For Lancaster Laboratories use only
Acct. # 10062 Sample # 3699890-905
+795-815

**Please print. Instructions on reverse side correspond with circled numbers.**

(1) Client: Hull & Associates, Inc. Acct. #:
Project Name/#: IMC Magnetics PWSID #:
Project Manager: Lance Turley P.O.#
Sampler: A. Fornaro Quote #:
Name of state where samples were collected: NY

For lab use only
FSC:
SCR #: 1157264

| (2) Sample Identification | Date Collected | Time Collected | (3) Grab | Composite | (4) Matrix: Soil | Water | Other | Potable (Check if applicable) | NPDES | Total # of Containers | (5) Analyses Requested: 8021B | TOC | FE | TDS & SO4 | Remarks | (6) Temperature of samples upon receipt (if requested) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NMB007:MW-10L:G100101 | 10/1/01 | 3:00 | X | | | X | | | | 9 | X | X | X | X | | |
| Field Blank | 10/1/01 | 4:10 | X | | | X | | | | 9 | X | X | X | X | | |
| Trip Blank | 9/19/01 | | | | | X | | | | 2 | X | | | | | |

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) **Data Package Options** (please circle if requested)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)
SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| L. Hetrick | 9/19/01 | 1501 | | | |
| | Date | Time | | Date | Time |
| | 10/4/01 | 1500 | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | Jess Zeek | 10/4/01 | 0910 |

(9)

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

2102 Rev. 3/7/01

# Analysis Request/Environmental Services Chain of Custody

Lancaster Laboratories
*Where quality is a science.*

For Lancaster Laboratories use only
Acct. # 10062 Sample # 3699795-815
+890-905

**Please print. Instructions on reverse side correspond with circled numbers.**

(1) Client: Hull & Associates, Inc. Acct. #:
Project Name/#: IMC Magnetics PWSID #:
Project Manager: Lance Turley P.O.#
Sampler: A. Fornaro Quote #:
Name of state where samples were collected: NY

For lab use only
FSC:
SCR #: 1157264

(2) Sample Identification | Date Collected | Time Collected | (3) Grab | Composite | (4) Matrix: Soil | Water | Other (Potable ☐ NPDES ☐ (Check if applicable)) | Total # of Containers | (5) Analyses Requested: 8021B | TOC | Fe | TDS & SO4 | Remarks | (6) Temperature of samples upon receipt (if requested)

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Soil | Water | Other | Total # of Containers | 8021B | TOC | Fe | TDS & SO4 | Remarks | Temperature of samples upon receipt (if requested) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NMB007:MW-1:G100101 | 10/1/01 | 11:30 | X | | | X | | 3 | X | | | | | |
| NMB007:MW-3:G092801A | 9/28/01 | 9:30 | X | | | X | | 3 | X | | | | | |
| NMB007:MW-3:G092801B | 9/28/01 | 9:30 | X | | | X | | 3 | X | | | | | |
| NMB007:AW-1U:G100101A | 10/1/01 | 12:15 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:AW-1U:G100101B | 10/1/01 | 12:15 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:AW-1L:G100101 | 10/1/01 | 12:00 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:AW-2U:G100101 | 10/1/01 | 4:00 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:AW-2L:G100101 | 10/1/01 | 3:45 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:AW-3U:G100101 | 10/1/01 | 1:00 | X | | | X | | 9 | X | X | X | X | | |
| NMB007:AW-3L:G100101 | 10/1/01 | 12:45 | X | | | X | | 9 | X | X | X | X | | |

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) **Data Package Options** (please circle if requested)
QC Summary | Type VI (Raw Data)
Type I (Tier I) | GLP
Type II (Tier II) | Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? Yes No

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| L. Ketterling | 9/19/01 | 1500 | | | |
| | 10/4/01 | 1500 | | | |
| | | | | | |
| | | | | | |
| | | | Jess Zook | 10/4/01 | 0900 |

(9)

# Analysis Request/Environmental Services Chain of Custody

Lancaster Laboratories
*Where quality is a science.*

For Lancaster Laboratories use only
Acct. # 10062 Sample # 3699795-815
+891-905

**Please print. Instructions on reverse side correspond with circled numbers.**

(1)
Client: Hull & Associates, INC. Acct. #:
Project Name/#: IMC Magnetics PWSID #:
Project Manager: Lance Turley P.O.#
Sampler: A. Fornaro Quote #:
Name of state where samples were collected: NY

For lab use only
FSC:
SCR #: 1157264

| (2) Sample Identification | Date Collected | Time Collected | (3) Grab | Composite | Matrix (4) Soil | Potable (Check if applicable) / NPDES Water | Other | Total # of Containers | (5) Analyses Requested: 8021B | TOC | Fe | TDS @ SO4 | Remarks | (6) Temperature of samples upon receipt (if requested) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NMB007: MW-4U: G100101 | 10/1/01 | 10:30 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-4M: G100101 | 10/1/01 | 10:15 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-4L: G100101A | 10/1/01 | 10:00 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-4L: G100101B | 10/1/01 | 10:00 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-5U: G092801 | 9/28/01 | 3:45 | X | | | X | | 3 | X | | | | | |
| Field Blank | 9/28/01 | 4:00 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-5M: G092801 | 9/28/01 | 3:30 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-5L: G092801 | 9/28/01 | 3:00 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-6U: G092801 | 9/28/01 | 1:30 | X | | | X | | 3 | X | | | | | |
| NMB007: MW-6M: G092801 | 9/28/01 | 1:00 | X | | | X | | 3 | X | | | | | |

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) **Data Package Options** (please circle if requested)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Internal Chain of Custody required? Yes No

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| L. Hetrick | 9/29/01 | 1500 | | | |
| | 10/4/01 | 1500 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | Jess Zook | 10/4/01 | 0900 |

(9)

# ATTACHMENT D

# ISOTECH LABORATORY TREATABILITY REPORT

COPY

# LABORATORY TREATABILITY REPORT

## IMC EASTERN FACILITY
## WESTBURY, NY

NOVEMBER 7, 2001

*PREPARED FOR*

HULL & ASSOCIATES INC.
4700 DUKE DRIVE
SUITE 172
MASON, OHIO

*PREPARED BY*

IN-SITU OXIDATIVE TECHNOLOGIES, INC.
51 EVERETT DRIVE, SUITE A-10
WEST WINDSOR, NEW JERSEY 08550

ISOTEC CASE NO. 800394

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# TABLES



# APPENDICES

# *Section 1 Executive Summary*

In-Situ Oxidative Technologies, Inc. (ISOTEC[SM]) was retained by IMC Eastern Corporation through Hull & Associates, Inc. to conduct a laboratory treatability study (study) on soil and groundwater samples collected at the IMC Eastern Facility in Westbury, New York (the site). The purpose of the study was to determine the potential effectiveness of ISOTEC's in situ chemical oxidation process to oxidize site contaminants of concern in soil and groundwater at the site.

The ISOTEC process is based on Fenton's chemistry using a proprietary catalyst to produce hydroxyl radicals that oxidize chemical bonds. The target contaminants of concern for the study were volatile organic compounds (VOCs) including Tetrachloroethene (PCE). Experiments were conducted on samples of site groundwater and on a mixture of site groundwater and site soil (soil-slurry) that was prepared by ISOTEC at their facility. Results of the groundwater test (GW-test) indicated a greater than 99% destruction of targeted VOCs for the treatments evaluated. Results of the soil-slurry test (SL-test) also indicated greater than 99% destruction of targeted VOCs. The study results can be used to design a pilot scale application of the ISOTEC process for the site from which the study samples were collected. A full-scale process can be designed for the site following successful completion of the pilot scale application.

# *Section 2 Study Objectives*

The objectives of the study were as follows:

- For each ISOTEC catalyst under evaluation, determine the amount of catalyst/oxidant mix (reagent) required to oxidize the measured contaminants at the site (i.e., the site-specific stoichiometry per catalyst);
- Evaluate the effectiveness of ISOTEC's Fenton-based chemical oxidation on site groundwater samples;
- Evaluate the effectiveness of ISOTEC's Fenton-based chemical oxidation in the presence of site aquifer solids (i.e. soil); and
- Determine the most effective reagent for a potential pilot scale application at the site.

# *Section 3 Sample Collection*

Hull & Associates Inc. subcontracted Handex Environmental to collect soil and groundwater samples from the site. The samples were collected and shipped to the ISOTEC facility for the study. The soil was collected on September 11, 2001 in multiple clear plastic sleeves and was identified as "AW-2". The soil from sleeves 60-62', 62-64' and 64-66' were composited by ISOTEC personnel for the study. The soil was stored at 4 degrees Celsius ($^{o}$C) until mixed at the laboratory with the site groundwater sample to form the soil-slurry mix used during the study. A portion of the composited soil was also submitted for initial iron, manganese, and total organic carbon (TOC) analysis.

The groundwater was collected on October 1, 2001 in five unpreserved 1-liter glass containers and was identified as "AW-2U". A portion of the unpreserved groundwater sample was used by ISOTEC for iron and manganese analysis. Additionally, a portion of the groundwater sample was decanted into 40-ml VOA vials preserved in HCl for initial VOC analysis. The groundwater was stored at 4 $^{o}$C until used during the study.

# *Section 4 Laboratory Treatability Study*

The study consisted of the experimental setup, establishing initial conditions and experimental controls, conducting the experiments through application of various catalysts and oxidants, and then submitting the treated samples for chemical analysis.

## *4.1 Experimental Setup*

Two sets of laboratory experiments were performed: one set on the groundwater sample and one set on a soil-slurry mix. The groundwater experiments are hereinafter referred to as Groundwater Test (GW-test) and consisted of one experiment to determine the optimum catalyst/oxidant mix (reagent) and reagent volume, as evidenced by VOC oxidation in groundwater.

The soil-slurry experiments are hereinafter referred to as Soil-Slurry Test (SL-test) and consisted of one experiment to determine the optimum reagent and reagent volume as evidenced by VOC oxidation in the soil-slurry.

### *4.1.1 GW-test VOC Experiment*

The GW-test VOC experiment was performed in four (4) pairs of 140 ml sealed batch reactors (reactors). Groundwater was introduced into each reactor, leaving enough headspace for predetermined reagent volumes to be injected. The reactors were sealed with aluminum caps fitted with Teflon®-lined rubber septa to facilitate reagent injections.

Each pair received either a different reagent, or a different volume of a particular reagent. One reactor of each pair served as the "treatment reactor" while the other served as the "monitoring reactor". Both reactors of each pair received identical reagent doses. The treatment reactor was not opened or sampled until the end of the experiment. The monitoring reactor was used to monitor the extent of the oxidation reaction of the pair, by periodically extracting small samples for hydrogen peroxide analysis. Additional reactors were set up for control purposes. Control reactors are discussed later in Section 4.3.

### *4.1.2 SL-test VOC Experiment*

The SL-test VOC experiment was performed in five (5) pairs of 120 ml sealed batch reactors (reactors). The soil-slurry mix was prepared from a one to one ratio by weight (1:1 w/w) of soil and groundwater. The soil-slurry was introduced into each reactor, leaving enough headspace for predetermined reagent volumes to be injected. The reactors were sealed with screw-top caps fitted with Teflon®-lined rubber septa to

facilitate reagent injections. One additional reactor was setup and stored at $4^0$C to represent initial conditions (Section 4.2).

Each pair received either a different reagent, or a different volume of a particular reagent, with one reactor serving as the "treatment reactor" and the other as the "monitoring reactor". Both reactors of each pair received identical reagent doses. The treatment reactor was not opened or sampled until the end of the experiment. The monitoring reactor was used to monitor the extent of the oxidation reaction of the pair, by periodically extracting small samples for hydrogen peroxide analysis. Additional reactors were set up for control purposes. Control reactors are discussed later in Section 4.3.

## *4.2 Initial Conditions*

The initial conditions of each matrix (soil, groundwater and soil-slurry) were established prior to initiating the experiments.

Soil was analyzed for iron and manganese by EPA method 6010 and total organic carbon (TOC) by EPA method 9060.

Groundwater was analyzed for iron and manganese by EPA method 6010 and VOCs by EPA method 624 +10.

Soil-slurry was analyzed for VOCs by EPA method 8260B +10.

The results of the initial condition analyses are presented in Table 4-1. The analytical laboratory reports, including chains of custody, are presented in Appendix 2.

## *4.3 Experimental Control*

Experimental control samples (Control) were set up during the study to document the following:

- reduction in contaminant concentrations due to sample dilution by reagent volumes injected, and
- reduction in contaminant concentrations due to volatilization caused by room temperature test conditions.

The control sample was set up in a treatment reactor but was injected with distilled water instead of catalyst and oxidant. The volume of distilled water injected was identical to the volumes of reagent injected into treatment reactors. The control sample remained at and was subject to the same conditions as the treatment and monitoring reactors.

Control samples were used during the following experiments:

- GW-test VOC experiment, and
- SL-test VOC experiment.

## *4.4 Application of Reagents*

The study experiments were performed on each matrix. Where multiple pairs of reactors were prepared for a given matrix, a series of different reagents or different volumes of the same reagent were injected into each pair of reactors (treatment and monitoring). Each monitoring reactor received an identical dose as it's paired treatment reactor. Samples were periodically withdrawn from the monitoring reactors for hydrogen peroxide analysis, the results of which may have led to additional treatment dosages of the reagent under study, for its paired treatment reactor. Distilled water was used to equalize the total volume of reagent used between reactor pair.

Following the last application of reagent, all reactors remained undisturbed at room temperature for a minimum of 24 hours or until the oxidizer was completely consumed as determined by Hach $H_2O_2$ testing equipment. The reaction was quenched using catalase, which is an organic enzyme catalyst naturally present in most soils that decomposes hydrogen peroxide directly to oxygen without generating hydroxyl radicals as shown below.

$$H_2O_2 \rightarrow H_2O + \frac{1}{2} O_2$$

After the resting period, excess catalase was injected into each reactor to decompose residual hydrogen peroxide and terminate the study. The use of catalase for quenching purposes is a standard practice in Fenton's chemistry and does not interfere with laboratory analysis. However, for control purposes, the exact volume of excess catalase injected into each treatment reactor was also injected into control reactors. The treatment effectiveness was evaluated by calculating the percent VOC reduction in each treatment reactor relative to the control reactors.

The type of catalyst tested, and the number of treatment dosages evaluated is discussed below.

### *4.4.1 ISOTEC Catalyst 4260*

ISOTEC's patented Catalyst 4260 is a circum-neutral pH (e.g. 5-8) organometallic complex with high mobility within the subsurface. Based on historical contaminant levels noted at the site and previous experience with treatment of the compounds of concern, ISOTEC selected this catalyst for most of the experiments. The stoichiometric molar ratio of Catalyst 4260 to measured site contaminants was determined and then used to prepare the Catalyst 4260 reagent. One, two and three treatment dosages of the

Catalyst 4260 reagent were evaluated on the soil-slurry matrix for VOC oxidation. One and two treatment dosages were evaluated on the groundwater matrix for VOC oxidation.

### *4.4.2 ISOTEC Catalyst 6260*

ISOTEC's proprietary Catalyst 6260 is a circum-neutral pH organometallic complex catalyst with high mobility that was also evaluated during this study. This catalyst is an experimental catalyst that is currently being researched by ISOTEC. The stoichiometric molar ratio of Catalyst 6260 to measured site contaminants was determined and then used to prepare the Catalyst 6260 reagent. One and two treatment dosages of the Catalyst 6260 reagent were evaluated on the soil-slurry matrix for VOC oxidation. One and two treatment dosages were evaluated on the groundwater matrix for VOC oxidation.

## *4.5 Sample Collection and Analysis*

After the study was terminated by injecting excess catalase into the reactors, water from each of the GW-test VOC experiment treatment and control reactors was decanted into 40-ml glass vials preserved in HCl for VOC analysis by EPA method 624 + 10. Likewise, a sample of slurry from each SL-test VOC experiment treatment and control reactor was homogenized in the 120-ml reactor vessels and analyzed for VOCs by EPA method 8260B+10. Final values of pH were determined from each reactor.

All study samples were submitted to a New Jersey certified analytical laboratory for analysis.

## Table 4-1: Initial Conditions

| Sample Matrix | UNITS | AW-2U Aqueous | AW-2 Soil | SL/INITIAL Slurry |
|---|---|---|---|---|
| ***VO Compound*** | | | | |
| Cis-1,2-Dichloroethene | µg/L or µg/Kg | ND <25.5 | NA | ND <35.9 |
| Trichloroethene | µg/L or µg/Kg | ND<28 | NA | 31 J |
| Tetrachloroethene | µg/L or µg/Kg | 4040 | NA | 225 |
| 1,1,1-Trichloroethane | µg/L or µg/Kg | ND <19.5 | NA | ND <35.9 |
| **Total target VO's** | **µg/L or µg/Kg** | **4040** | **NA** | **256 J** |
| Total TIC's | µg/L or µg/Kg | ND | NA | 505.9 |
| ***Additional Parameters*** | | | | |
| Iron | mg/L or mg/Kg | 0.341 | 6920 | NA |
| Manganese | mg/L or mg/Kg | 0.0527 | 8.37 | NA |
| Total Organic Carbon | mg/L or mg/Kg | NA | ND <339 | NA |

**Note:**

- The above list includes only selected 4 VO compounds that were detected in at least one sample from SL-test or GW-test. The entire list of 37 targeted VOC's analyzed, plus TICs or non-target compounds, can be found in Appendix #1.
- "AW-2U" and "AW-2" are field-collected samples.
- SL/ INITIAL is a laboratory prepared soil-slurry sample prepared in a 1:1 ratio of "AW-2U" aqueous and "AW-2" soil samples.
- ND = Analyzed for but not detected at the method detection limit (MDL) indicated.
- NA = Parameter not analyzed for
- J = The concentration was detected at a value below the MDL.
- VO's = Volatile organic compounds
- TIC's = Tentatively Identified Compounds or non-target compounds
- mg/Kg = milligrams per kilogram; µg/Kg = micrograms per kilogram
- mg/L = milligrams per liter; µg/L = micrograms per liter

# *Section 5 Treatability Study Results*

## *5.1 GW-test*

Results of the GW-test experiment are discussed below, with analytical results tabulated in Table 5-1. The analytical data package is provided in Appendix 1. For the purpose of data evaluation, all treated sample results were compared to control sample data with non-detect (ND) values assumed to be equal to zero.

The treated sample data when compared to control sample indicate a greater than 99% destruction of the total targeted VOCs detected in the groundwater sample after only one treatment dosage of the Catalyst 4260 reagent. Catalyst 6260 was equally effective on the target contaminants also achieving a greater than 99% reduction after only one treatment dosage. As may be noted from the final pH values, the treatment occurred in the circum-neutral pH range 6.59-6.76, which is desirable for maintaining natural subsurface conditions.

## *5.2 SL-test*

Results of the SL-test experiments are discussed below, with analytical results tabulated in Tables 5-2. Analytical data packages are presented in Appendix 1. For the purpose of data evaluation, all treated sample results were compared to control sample data with non-detect (ND) values assumed to be equal to zero.

The treated sample data when compared to control sample indicate that all of the samples were treated to non-detectable levels using both the Catalyst 4260 and Catalyst 6260.

As may be observed from the final pH values, treatments with all the catalysts tested occurred under circum-neutral pH conditions (i.e. pH = 6.84-7.03) and are suitable for field application under natural subsurface conditions.

## Table 5-1: Results of GW-test VOC Experiment

| | UNITS | Control | Treated #1 | Treated #2 | Treated #4 | Treated #5 |
|---|---|---|---|---|---|---|
| **Catalyst Used** | | None | Cat-4260 | Cat-4260 | Cat-6260 | Cat-6260 |
| **Oxidant Used** | | None | Stab. $H_2O_2$ | Stab. $H_2O_2$ | Stab. $H_2O_2$ | Stab. $H_2O_2$ |
| **No. of Treatments** | | 0 | 1 | 2 | 1 | 2 |
| ***VO Compound*** | | | | | | |
| Cis-1,2-Dichloroethene | µg/L | ND<51 | ND<0.51 | ND<0.51 | ND<0.51 | ND<0.51 |
| Trichloroethene | µg/L | ND<56 | ND<0.56 | ND<0.56 | ND<0.56 | ND<0.56 |
| Tetrachloroethene | µg/L | 4060 | ND<0.45 | ND<0.45 | 2.24 | 0.809 |
| 1,1,1-Trichloroethane | µg/L | ND<39 | ND<0.39 | 2.87 | 4.01 | 2.94 |
| **Total target VO's** | **µg/L** | **4060** | **ND** | **2.87** | **6.25** | **3.749** |
| Total TIC's | µg/L | ND | 7.3 | 21.2 | 9.4 | 25.7 |
| ***% Reduction (Total target VO's)*** | - | | **>99.9%** | **>99.9%** | **>99.8%** | **>99.9%** |
| ***Final pH of GW*** | - | **7.72** | **6.69** | **6.67** | **6.76** | **6.59** |

**Note:**

- The above list includes only selected 4 VO compounds that were detected in at least one sample from SL-test or GW-test. The entire list of 37 targeted VOC's analyzed, plus TICs or non-target compounds, can be found in Appendix #1.
- ND = Analyzed for but not detected at the method detection limit (MDL) indicated.
- VO's = Volatile organic compounds
- TIC's = Tentatively Identified Compounds or non-target compounds (includes only the top ten compounds or peaks detected in a forward library search)
- µg/L = micrograms per liter
- Percent reduction calculations are relative to control sample and assume ND values as equivalent to zero.

## Table 5-2: Results of SL-test VOC Experiment

| | UNITS | Control | Treated #1 | Treated #2 | Treated #3 | Treated #4 | Treated #5 |
|---|---|---|---|---|---|---|---|
| **Catalyst Used** | | None | Cat-4260 | Cat-4260 | Cat-4260 | Cat-6260 | Cat-6260 |
| **Oxidant Used** | | None | Stab. $H_2O_2$ | Stab. $H_2O_2$ | Stab. $H_2O_2$ | Stab. $H_2O_2$ | Stab. $H_2O_2$ |
| **No. of Treatments** | | 0 | 1 | 2 | 3 | 1 | 2 |
| ***VO Compound*** | | | | | | | |
| Cis-1,2-Dichloroethene | µg/Kg | ND<14.9 | ND<7.5 | ND<6.85 | ND<7.7 | ND<7.25 | ND<7.2 |
| Trichloroethene | µg/Kg | ND<14.9 | ND<7.5 | ND<6.85 | ND<7.7 | ND<7.25 | ND<7.2 |
| Tetrachloroethene | µg/Kg | 115 | ND<7.5 | ND<6.85 | ND<7.7 | ND<7.25 | ND<7.2 |
| 1,1,1-Trichloroethane | | ND<14.9 | ND<7.5 | ND<6.85 | ND<7.7 | ND<7.25 | ND<7.2 |
| **Total target VO's** | **µg/Kg** | **115** | **ND** | **ND** | **ND** | **ND** | **ND** |
| Total TIC's | µg/Kg | ND | ND | ND | ND | ND<7.2 | ND |
| ***% Reduction (Total target VO's)*** | | | **>99.9%** | **>99.9%** | **>99.9%** | **>99.9%** | **>99.9%** |
| ***Final pH of GW*** | - | **7.57** | **6.99** | **7.03** | **6.84** | **7.02** | **7.04** |

**Note:**

- The above list includes only selected 4 VO compounds that were detected in at least one sample from SL-test or GW-test. The entire list of 37 targeted VOC's analyzed, plus TICs or non-target compounds, can be found in Appendix #1.
- ND = Analyzed for but not detected at the method detection limit (MDL) indicated.
- VO's = Volatile organic compounds
- TIC's = Tentatively Identified Compounds or non-target compounds (includes only the top ten compounds or peaks detected in a forward library search)
- µg/kg = micrograms per kilogram

# *Section 6 Conclusions*

The laboratory study results indicate that the ISOTEC process is effective in significantly reducing the concentration of targeted VOC compounds in site soils and groundwater. The data indicate that both the catalysts tested (i.e. Catalysts 4260 and 6260) achieved maximum contaminant reduction under close to natural subsurface pH conditions.

A preliminary assessment of site-specific factors that could affect the ISOTEC process was performed on the content of iron, manganese and total organic carbon (TOC) in site soil. Iron was detected in site soil at a concentration of 6,920 mg/Kg (Table 4-1). Much of this iron is bound to the soil matrix and unavailable to catalyze the Fenton reaction that occurs in the aqueous phase. The aqueous concentration was found to be low at 0.341 mg/L. The soil manganese concentration of 8.37 mg/Kg is too low to function as a natural catalyst for Fenton process. The aqueous concentration was also found to be low at 0.0527 mg/L. The concentration of total organic carbon (TOC) was found to be at non-detectable levels.

The ISOTEC study results suggest that a pilot application of the ISOTEC process should be completed at the site to gather additional data on the effectiveness of this remedial alternative on a large-scale basis. A pilot application would also serve as an initial step toward remediating the site; data obtained from the study indicate that the ISOTEC process could substantially reduce VOC concentrations in the treated areas.

# APPENDIX #1

## LAB STUDY ANALYTICAL PACKAGE

Integrated Analytical Laboratories, LLC.

273 Franklin Road
Randolph, N.J. 07869

Phone: 973 361-4252
Fax: 973 989-5288

# ANALYTICAL DATA REPORT

for

Isotec
51 Everett Drive
Suite A-10
West Windsor,NJ 08550

Project: IMC MAGNETICS/WESTBURY NY - 800394
Lab Case Number: E01-6929
Date Report Prepared: October 31, 2001

| CLIENT SAMPLE ID | LABORATORY SAMPLE ID |
|---|---|
| SL/INITIAL | 6929-001 |
| SL/CONTROL | 6929-002 |
| SL/T-A | 6929-003 |
| SL/T-B | 6929-004 |
| SL/T-C | 6929-005 |
| SL/T-D | 6929-006 |
| SL/T-E | 6929-007 |
| AW2- COMPOSITE | 6929-008 |
| GW/INITIAL | 6929-009 |
| GW/CONTROL | 6929-010 |
| GW/T-A | 6929-011 |
| GW/T-B | 6929-012 |
| GW/T-C | 6929-013 |
| GW/T-D | 6929-014 |

All required protocols were followed during analyses. These data have been reviewed and accepted by

Michael H. Leftin, Ph.D.
Laboratory Director

The liability of Integrated Analytical Laboratories, LLC. is limited to the actual cost of the analyses performed.

IAL is a NELAC Certified Lab # 14751 and maintains certification in Connecticut # PH-0699, New York # 11402 and Florida # E87670

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

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# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## MATRIX QUALIFIERS

**A -** Indicates the sample is an Aqueous matrix.

**O -** Indicates the sample is an Oil matrix.

**S -** Indicates the sample is a Soil, Sludge or Sediment matrix.

**X -** Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

## DATA QUALIFIERS

**B -** Indicates the analyte was found in the Blank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.

**C -** Common Laboratory Contaminant.

**D -** The compound was reported from the Diluted analysis.

**D.F. -** Dilution Factor.

**E -** Estimated concentration, reported results are outside the calibrated range of the instrument.

**J -** Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.

**MDL -** Method Detection Limit.

**MI -** Indicates compound concentration could not be determined due to Matrix Interferences.

**NA -** Not Applicable.

**ND -** Indicates the compound was analyzed for but Not Detected at the MDL.

## REPORT QUALIFIERS

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

# INTEGRATED ANALYTICAL LABORATORIES
## CONFORMANCE/NONCONFORMANCE SUMMARY
## GC/MS VOLATILE ANALYSIS

Lab Case Number: E01 - 6929

| | No | Yes |
|---|---|---|
| 1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks). | | ✓ |
| 2. GC/MS Tuning Specifications:<br>a. BFB Passed | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series. | | ✓ |
| 4. GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series | | ✓ |
| 5. GC/MS Calibration Requirements:<br>a. Calibration Check Compounds | | / |
| b. System Performance Check Compounds | | / |
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | ✓ | |
| 7. Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range) | | ✓ |
| If not met, were the calculations checked and the results qualified as "estimated"? | | na |
| 8. Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) | | / |
| 9. Internal Standard Area/Retention Time Shift meet criteria | | ✓ |
| 10. Extraction Holding Time Met<br>If not met, list number of days exceeded for each sample: | | N/A |
| 11. Analysis Holding Time Met<br>If not met, list number of days exceeded for each sample: | | ✓ |
| 12. Sample Dilution Performed | | / |

| High Target Compounds | High Nontarget Compounds | Matrix Interference | Other |
|---|---|---|---|
| | / | | |

13. Comments:

Organics Manager

10/24/01
Date

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## SUMMARY REPORT

Client: Isotec
Project: IMC MAGNETICS/WESTBURY NY - 800394
Lab Case No.: E01-6929

| Lab ID: | 6929-001 | | | 6929-002 | | | 6929-003 | | | 6929-004 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | SL/INITIAL | | | SL/CONTROL | | | SL/T-A | | | SL/T-B | | |
| Matrix: | Soil | | | Soil | | | Soil | | | Soil | | |
| Sampled Date: | 9/27/2001 | | | 10/8/2001 | | | 10/8/2001 | | | 10/8/2001 | | |
| PARAMETER(Units) | Conc | Q | MDL | Conc | Q | MDL | Conc | Q | MDL | Conc | Q | MDL |
| **Volatiles (ppb)** | | | | | | | | | | | | |
| **(Including Cis 1-2-DCE,MTBE & TBA)** | | | | | | | | | | | | |
| t-Butyl Alcohol(TBA) | ND | | 71.8 | ND | | 29.7 | ND | | 15 | ND | | 13.7 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 35.9 | ND | | 14.9 | ND | | 7.5 | ND | | 6.85 |
| cis-1,2-Dichloroethene | ND | | 35.9 | ND | | 14.9 | ND | | 7.5 | ND | | 6.85 |
| Trichloroethene | 31 | J | 35.9 | ND | | 14.9 | ND | | 7.5 | ND | | 6.85 |
| Tetrachloroethene | 225 | | 35.9 | 115 | | 14.9 | ND | | 7.5 | ND | | 6.85 |
| TOTAL VO's: | 256 | J | | 115 | | | ND | | | ND | | |
| TOTAL TIC's: | 505.9 | | | ND | | | ND | | | ND | | |
| TOTAL VO's & TIC's: | 761.9 | J | | 115 | | | ND | | | ND | | |

| Lab ID: | 6929-005 | | | 6929-006 | | | 6929-007 | | | 6929-008 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | SL/T-C | | | SL/T-D | | | SL/T-E | | | AW2- | | |
| Client ID Cont.: | | | | | | | | | | COMPOSITE | | |
| Matrix: | Soil | | | Soil | | | Soil | | | Soil | | |
| Sampled Date: | 10/8/2001 | | | 10/8/2001 | | | 10/8/2001 | | | 9/11/2001 | | |
| PARAMETER(Units) | Conc | Q | MDL | Conc | Q | MDL | Conc | Q | MDL | Conc | Q | MDL |
| **Volatiles (ppb)** | | | | | | | | | | | | |
| **(Including Cis 1-2-DCE,MTBE & TBA)** | | | | | | | | | | | | |
| t-Butyl Alcohol(TBA) | ND | | 15.4 | ND | | 14.5 | ND | | 14.4 | ~ | | |
| Methyl-t-Butyl Ether(MTBE) | ND | | 7.7 | ND | | 7.25 | ND | | 7.2 | ~ | | |
| cis-1,2-Dichloroethene | ND | | 7.7 | ND | | 7.25 | ND | | 7.2 | ~ | | |
| TOTAL VO's: | ND | | | ND | | | ND | | | ~ | | |
| TOTAL TIC's: | ND | | | ND | | | ND | | | ~ | | |
| TOTAL VO's & TIC's: | ND | | | ND | | | ND | | | ~ | | |
| **Metals (ppm)** | | | | | | | | | | | | |
| Iron | ~ | | | ~ | | | ~ | | | 6920 | | 31.1 |
| Manganese | ~ | | | ~ | | | ~ | | | 8.37 | | 6.22 |
| **General Analytical** | | | | | | | | | | | | |
| Total Organic Carbons (ppm) | ~ | | | ~ | | | ~ | | | ND | | 339 |

~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = The concentration was detected at a value below the MDL
All qualifiers on individual Volatiles are carried down through summation.

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-001
Client ID: SL/INITIAL
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2153.D

GC/MS Column: DB-624
Sample wt/vol: 1.0g
Matrix-Units: Soil-µg/Kg (ppb)
Dilution Factor: 5
% Moisture: 30.4

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 35.9 |
| Vinyl Chloride | ND | | 35.9 |
| Bromomethane | ND | | 35.9 |
| Chloroethane | ND | | 35.9 |
| Trichlorofluoromethane | ND | | 35.9 |
| Acrolein | ND | | 71.8 |
| 1,1-Dichloroethene | ND | | 35.9 |
| Methylene Chloride | ND | | 35.9 |
| Acrylonitrile | ND | | 71.8 |
| t-Butyl Alcohol(TBA) | ND | | 71.8 |
| trans-1,2-Dichloroethene | ND | | 35.9 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 35.9 |
| 1,1-Dichloroethane | ND | | 35.9 |
| cis-1,2-Dichloroethene | ND | | 35.9 |
| Chloroform | ND | | 35.9 |
| 1,1,1-Trichloroethane | ND | | 35.9 |
| Carbon Tetrachloride | ND | | 35.9 |
| 1,2-Dichloroethane(EDC) | ND | | 35.9 |
| Benzene | ND | | 35.9 |
| Trichloroethene | 31 | J | 35.9 |
| 1,2-Dichloropropane | ND | | 35.9 |
| Bromodichloromethane | ND | | 35.9 |
| 2-Chloroethylvinyl Ether | ND | | 35.9 |
| cis-1,3-Dichloropropene | ND | | 35.9 |
| Toluene | ND | | 35.9 |
| trans-1,3-Dichloropropene | ND | | 35.9 |
| 1,1,2-Trichloroethane | ND | | 35.9 |
| Tetrachloroethene | 225 | | 35.9 |
| Dibromochloromethane | ND | | 35.9 |
| Chlorobenzene | ND | | 35.9 |
| Ethylbenzene | ND | | 35.9 |
| Total Xylenes | ND | | 35.9 |
| Bromoform | ND | | 35.9 |
| 1,1,2,2-Tetrachloroethane | ND | | 35.9 |
| 1,3-Dichlorobenzene | ND | | 35.9 |
| 1,4-Dichlorobenzene | ND | | 35.9 |
| 1,2-Dichlorobenzene | ND | | 35.9 |
| Total Target Compounds: | 256 | J | |

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-001
Client ID: SL/INITIAL
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Date File: I2153.D

GC/MS Column: DB-624
Sample wt/vol: 1.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 5
% Moisture: 30.4

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | Substituted benzene | 83.3 | 22.97 |
| | Unknown alkane | 45.2 | 23.18 |
| | Unknown alkane | 169 | 24.31 |
| | Unknown aromatic | 75.4 | 26.05 |
| | Unknown aromatic | 133 | 26.50 |

Total TICs = 505.9

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-002
Client ID: SL/CONTROL
Date Received: 10/15/2001
Date Analyzed: 10/12/2001
Data file: F3264.D

GC/MS Column: DB-624
Sample wt/vol: 2.5g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 2
% Moisture: 32.6

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 14.9 |
| Vinyl Chloride | ND | | 14.9 |
| Bromomethane | ND | | 14.9 |
| Chloroethane | ND | | 14.9 |
| Trichlorofluoromethane | ND | | 14.9 |
| Acrolein | ND | | 29.7 |
| 1,1-Dichloroethene | ND | | 14.9 |
| Methylene Chloride | ND | | 14.9 |
| Acrylonitrile | ND | | 29.7 |
| t-Butyl Alcohol(TBA) | ND | | 29.7 |
| trans-1,2-Dichloroethene | ND | | 14.9 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 14.9 |
| 1,1-Dichloroethane | ND | | 14.9 |
| cis-1,2-Dichloroethene | ND | | 14.9 |
| Chloroform | ND | | 14.9 |
| 1,1,1-Trichloroethane | ND | | 14.9 |
| Carbon Tetrachloride | ND | | 14.9 |
| 1,2-Dichloroethane(EDC) | ND | | 14.9 |
| Benzene | ND | | 14.9 |
| Trichloroethene | ND | | 14.9 |
| 1,2-Dichloropropane | ND | | 14.9 |
| Bromodichloromethane | ND | | 14.9 |
| 2-Chloroethylvinyl Ether | ND | | 14.9 |
| cis-1,3-Dichloropropene | ND | | 14.9 |
| Toluene | ND | | 14.9 |
| trans-1,3-Dichloropropene | ND | | 14.9 |
| 1,1,2-Trichloroethane | ND | | 14.9 |
| Tetrachloroethene | 115 | | 14.9 |
| Dibromochloromethane | ND | | 14.9 |
| Chlorobenzene | ND | | 14.9 |
| Ethylbenzene | ND | | 14.9 |
| Total Xylenes | ND | | 14.9 |
| Bromoform | ND | | 14.9 |
| 1,1,2,2-Tetrachloroethane | ND | | 14.9 |
| 1,3-Dichlorobenzene | ND | | 14.9 |
| 1,4-Dichlorobenzene | ND | | 14.9 |
| 1,2-Dichlorobenzene | ND | | 14.9 |

Total Target Compounds: 115

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-002
Client ID: SL/CONTROL
Date Received: 10/15/2001
Date Analyzed: 10/12/2001
Data file: F3264.D

GC/MS Column: DB-624
Sample wt/vol: 2.5g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 2
% Moisture: 32.6

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-003
Client ID: SL/T-A
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2154.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 33.4

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 7.5 |
| Vinyl Chloride | ND | | 7.5 |
| Bromomethane | ND | | 7.5 |
| Chloroethane | ND | | 7.5 |
| Trichlorofluoromethane | ND | | 7.5 |
| Acrolein | ND | | 15 |
| 1,1-Dichloroethene | ND | | 7.5 |
| Methylene Chloride | ND | | 7.5 |
| Acrylonitrile | ND | | 15 |
| t-Butyl Alcohol(TBA) | ND | | 15 |
| trans-1,2-Dichloroethene | ND | | 7.5 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 7.5 |
| 1,1-Dichloroethane | ND | | 7.5 |
| cis-1,2-Dichloroethene | ND | | 7.5 |
| Chloroform | ND | | 7.5 |
| 1,1,1-Trichloroethane | ND | | 7.5 |
| Carbon Tetrachloride | ND | | 7.5 |
| 1,2-Dichloroethane(EDC) | ND | | 7.5 |
| Benzene | ND | | 7.5 |
| Trichloroethene | ND | | 7.5 |
| 1,2-Dichloropropane | ND | | 7.5 |
| Bromodichloromethane | ND | | 7.5 |
| 2-Chloroethylvinyl Ether | ND | | 7.5 |
| cis-1,3-Dichloropropene | ND | | 7.5 |
| Toluene | ND | | 7.5 |
| trans-1,3-Dichloropropene | ND | | 7.5 |
| 1,1,2-Trichloroethane | ND | | 7.5 |
| Tetrachloroethene | ND | | 7.5 |
| Dibromochloromethane | ND | | 7.5 |
| Chlorobenzene | ND | | 7.5 |
| Ethylbenzene | ND | | 7.5 |
| Total Xylenes | ND | | 7.5 |
| Bromoform | ND | | 7.5 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.5 |
| 1,3-Dichlorobenzene | ND | | 7.5 |
| 1,4-Dichlorobenzene | ND | | 7.5 |
| 1,2-Dichlorobenzene | ND | | 7.5 |

Total Target Compounds: 0

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC_MAGNETICS

Lab ID: 6929-003
Client ID: SL/T-A
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Date File: I2154.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 33.4

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-004
Client ID: SL/T-B
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2155.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 27.1

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 6.85 |
| Vinyl Chloride | ND | | 6.85 |
| Bromomethane | ND | | 6.85 |
| Chloroethane | ND | | 6.85 |
| Trichlorofluoromethane | ND | | 6.85 |
| Acrolein | ND | | 13.7 |
| 1,1-Dichloroethene | ND | | 6.85 |
| Methylene Chloride | ND | | 6.85 |
| Acrylonitrile | ND | | 13.7 |
| t-Butyl Alcohol(TBA) | ND | | 13.7 |
| trans-1,2-Dichloroethene | ND | | 6.85 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 6.85 |
| 1,1-Dichloroethane | ND | | 6.85 |
| cis-1,2-Dichloroethene | ND | | 6.85 |
| Chloroform | ND | | 6.85 |
| 1,1,1-Trichloroethane | ND | | 6.85 |
| Carbon Tetrachloride | ND | | 6.85 |
| 1,2-Dichloroethane(EDC) | ND | | 6.85 |
| Benzene | ND | | 6.85 |
| Trichloroethene | ND | | 6.85 |
| 1,2-Dichloropropane | ND | | 6.85 |
| Bromodichloromethane | ND | | 6.85 |
| 2-Chloroethylvinyl Ether | ND | | 6.85 |
| cis-1,3-Dichloropropene | ND | | 6.85 |
| Toluene | ND | | 6.85 |
| trans-1,3-Dichloropropene | ND | | 6.85 |
| 1,1,2-Trichloroethane | ND | | 6.85 |
| Tetrachloroethene | ND | | 6.85 |
| Dibromochloromethane | ND | | 6.85 |
| Chlorobenzene | ND | | 6.85 |
| Ethylbenzene | ND | | 6.85 |
| Total Xylenes | ND | | 6.85 |
| Bromoform | ND | | 6.85 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.85 |
| 1,3-Dichlorobenzene | ND | | 6.85 |
| 1,4-Dichlorobenzene | ND | | 6.85 |
| 1,2-Dichlorobenzene | ND | | 6.85 |

Total Target Compounds: 0

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-004
Client ID: SL/T-B
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2155.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 27.1

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-005
Client ID: SL/T-C
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2156.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 35

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 7.7 |
| Vinyl Chloride | ND | | 7.7 |
| Bromomethane | ND | | 7.7 |
| Chloroethane | ND | | 7.7 |
| Trichlorofluoromethane | ND | | 7.7 |
| Acrolein | ND | | 15.4 |
| 1,1-Dichloroethene | ND | | 7.7 |
| Methylene Chloride | ND | | 7.7 |
| Acrylonitrile | ND | | 15.4 |
| t-Butyl Alcohol(TBA) | ND | | 15.4 |
| trans-1,2-Dichloroethene | ND | | 7.7 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 7.7 |
| 1,1-Dichloroethane | ND | | 7.7 |
| cis-1,2-Dichloroethene | ND | | 7.7 |
| Chloroform | ND | | 7.7 |
| 1,1,1-Trichloroethane | ND | | 7.7 |
| Carbon Tetrachloride | ND | | 7.7 |
| 1,2-Dichloroethane(EDC) | ND | | 7.7 |
| Benzene | ND | | 7.7 |
| Trichloroethene | ND | | 7.7 |
| 1,2-Dichloropropane | ND | | 7.7 |
| Bromodichloromethane | ND | | 7.7 |
| 2-Chloroethylvinyl Ether | ND | | 7.7 |
| cis-1,3-Dichloropropene | ND | | 7.7 |
| Toluene | ND | | 7.7 |
| trans-1,3-Dichloropropene | ND | | 7.7 |
| 1,1,2-Trichloroethane | ND | | 7.7 |
| Tetrachloroethene | ND | | 7.7 |
| Dibromochloromethane | ND | | 7.7 |
| Chlorobenzene | ND | | 7.7 |
| Ethylbenzene | ND | | 7.7 |
| Total Xylenes | ND | | 7.7 |
| Bromoform | ND | | 7.7 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.7 |
| 1,3-Dichlorobenzene | ND | | 7.7 |
| 1,4-Dichlorobenzene | ND | | 7.7 |
| 1,2-Dichlorobenzene | ND | | 7.7 |

Total Target Compounds: 0

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-005
Client ID: SL/T-C
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2156.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 35

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-006
Client ID: SL/T-D
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2157.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 31.1

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 7.25 |
| Vinyl Chloride | ND | | 7.25 |
| Bromomethane | ND | | 7.25 |
| Chloroethane | ND | | 7.25 |
| Trichlorofluoromethane | ND | | 7.25 |
| Acrolein | ND | | 14.5 |
| 1,1-Dichloroethene | ND | | 7.25 |
| Methylene Chloride | ND | | 7.25 |
| Acrylonitrile | ND | | 14.5 |
| t-Butyl Alcohol(TBA) | ND | | 14.5 |
| trans-1,2-Dichloroethene | ND | | 7.25 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 7.25 |
| 1,1-Dichloroethane | ND | | 7.25 |
| cis-1,2-Dichloroethene | ND | | 7.25 |
| Chloroform | ND | | 7.25 |
| 1,1,1-Trichloroethane | ND | | 7.25 |
| Carbon Tetrachloride | ND | | 7.25 |
| 1,2-Dichloroethane(EDC) | ND | | 7.25 |
| Benzene | ND | | 7.25 |
| Trichloroethene | ND | | 7.25 |
| 1,2-Dichloropropane | ND | | 7.25 |
| Bromodichloromethane | ND | | 7.25 |
| 2-Chloroethylvinyl Ether | ND | | 7.25 |
| cis-1,3-Dichloropropene | ND | | 7.25 |
| Toluene | ND | | 7.25 |
| trans-1,3-Dichloropropene | ND | | 7.25 |
| 1,1,2-Trichloroethane | ND | | 7.25 |
| Tetrachloroethene | ND | | 7.25 |
| Dibromochloromethane | ND | | 7.25 |
| Chlorobenzene | ND | | 7.25 |
| Ethylbenzene | ND | | 7.25 |
| Total Xylenes | ND | | 7.25 |
| Bromoform | ND | | 7.25 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.25 |
| 1,3-Dichlorobenzene | ND | | 7.25 |
| 1,4-Dichlorobenzene | ND | | 7.25 |
| 1,2-Dichlorobenzene | ND | | 7.25 |

Total Target Compounds: 0

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-006
Client ID: SL/T-D
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2157.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 31.1

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-007
Client ID: SL/T-E
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2158.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-μg/Kg (ppb)
Dilution Factor: 1
% Moisture: 30.6

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 7.2 |
| Vinyl Chloride | ND | | 7.2 |
| Bromomethane | ND | | 7.2 |
| Chloroethane | ND | | 7.2 |
| Trichlorofluoromethane | ND | | 7.2 |
| Acrolein | ND | | 14.4 |
| 1,1-Dichloroethene | ND | | 7.2 |
| Methylene Chloride | ND | | 7.2 |
| Acrylonitrile | ND | | 14.4 |
| t-Butyl Alcohol(TBA) | ND | | 14.4 |
| trans-1,2-Dichloroethene | ND | | 7.2 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 7.2 |
| 1,1-Dichloroethane | ND | | 7.2 |
| cis-1,2-Dichloroethene | ND | | 7.2 |
| Chloroform | ND | | 7.2 |
| 1,1,1-Trichloroethane | ND | | 7.2 |
| Carbon Tetrachloride | ND | | 7.2 |
| 1,2-Dichloroethane(EDC) | ND | | 7.2 |
| Benzene | ND | | 7.2 |
| Trichloroethene | ND | | 7.2 |
| 1,2-Dichloropropane | ND | | 7.2 |
| Bromodichloromethane | ND | | 7.2 |
| 2-Chloroethylvinyl Ether | ND | | 7.2 |
| cis-1,3-Dichloropropene | ND | | 7.2 |
| Toluene | ND | | 7.2 |
| trans-1,3-Dichloropropene | ND | | 7.2 |
| 1,1,2-Trichloroethane | ND | | 7.2 |
| Tetrachloroethene | ND | | 7.2 |
| Dibromochloromethane | ND | | 7.2 |
| Chlorobenzene | ND | | 7.2 |
| Ethylbenzene | ND | | 7.2 |
| Total Xylenes | ND | | 7.2 |
| Bromoform | ND | | 7.2 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.2 |
| 1,3-Dichlorobenzene | ND | | 7.2 |
| 1,4-Dichlorobenzene | ND | | 7.2 |
| 1,2-Dichlorobenzene | ND | | 7.2 |

Total Target Compounds: 0

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-007
Client ID: SL/T-E
Date Received: 10/09/2001
Date Analyzed: 10/23/2001
Data file: I2158.D

GC/MS Column: DB-624
Sample wt/vol: 5.0g
Matrix-Units: Soil-$\mu$g/Kg (ppb)
Dilution Factor: 1
% Moisture: 30.6

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-009
Client ID: GW/INITIAL
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Data file: G3803.D

GC/MS Column: DB-624
Sample wt/vol: 0.1mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 50
% Moisture: 100

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 39.5 |
| Vinyl Chloride | ND | | 46.5 |
| Bromomethane | ND | | 39.5 |
| Chloroethane | ND | | 52.5 |
| Trichlorofluoromethane | ND | | 47 |
| Acrolein | ND | | 663 |
| 1,1-Dichloroethene | ND | | 51 |
| Methylene Chloride | ND | | 36.5 |
| Acrylonitrile | ND | | 326 |
| t-Butyl Alcohol(TBA) | ND | | 97.5 |
| trans-1,2-Dichloroethene | ND | | 21 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 21 |
| 1,1-Dichloroethane | ND | | 24 |
| cis-1,2-Dichloroethene | ND | | 25.5 |
| Chloroform | ND | | 26 |
| 1,1,1-Trichloroethane | ND | | 19.5 |
| Carbon Tetrachloride | ND | | 24.5 |
| 1,2-Dichloroethane(EDC) | ND | | 28 |
| Benzene | ND | | 17.5 |
| Trichloroethene | ND | | 28 |
| 1,2-Dichloropropane | ND | | 24 |
| Bromodichloromethane | ND | | 24 |
| 2-Chloroethylvinyl Ether | ND | | 25.5 |
| cis-1,3-Dichloropropene | ND | | 25.5 |
| Toluene | ND | | 21 |
| trans-1,3-Dichloropropene | ND | | 15.5 |
| 1,1,2-Trichloroethane | ND | | 21 |
| Tetrachloroethene | 4040 | | 22.5 |
| Dibromochloromethane | ND | | 27 |
| Chlorobenzene | ND | | 34 |
| Ethylbenzene | ND | | 20.5 |
| Total Xylenes | ND | | 41 |
| Bromoform | ND | | 21 |
| 1,1,2,2-Tetrachloroethane | ND | | 24 |
| 1,3-Dichlorobenzene | ND | | 20.5 |
| 1,4-Dichlorobenzene | ND | | 19 |
| 1,2-Dichlorobenzene | ND | | 25 |

Total Target Compounds: 4040

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-009
Client ID: GW/INITIAL
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Data file: G3803.D

GC/MS Column: DB-624
Sample wt/vol: 0.1mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 50
% Moisture: 100

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-010
Client ID: GW/CONTROL
Date Received: 10/09/2001
Date Analyzed: 10/10/2001
Data file: G3218.D

GC/MS Column: DB-624
Sample wt/vol: 0.05mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 100
% Moisture: 100

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 79 |
| Vinyl Chloride | ND | | 93 |
| Bromomethane | ND | | 79 |
| Chloroethane | ND | | 105 |
| Trichlorofluoromethane | ND | | 94 |
| Acrolein | ND | | 1330 |
| 1,1-Dichloroethene | ND | | 102 |
| Methylene Chloride | ND | | 73 |
| Acrylonitrile | ND | | 652 |
| t-Butyl Alcohol(TBA) | ND | | 195 |
| trans-1,2-Dichloroethene | ND | | 42 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 42 |
| 1,1-Dichloroethane | ND | | 48 |
| cis-1,2-Dichloroethene | ND | | 51 |
| Chloroform | ND | | 52 |
| 1,1,1-Trichloroethane | ND | | 39 |
| Carbon Tetrachloride | ND | | 49 |
| 1,2-Dichloroethane(EDC) | ND | | 56 |
| Benzene | ND | | 35 |
| Trichloroethene | ND | | 56 |
| 1,2-Dichloropropane | ND | | 48 |
| Bromodichloromethane | ND | | 48 |
| 2-Chloroethylvinyl Ether | ND | | 51 |
| cis-1,3-Dichloropropene | ND | | 51 |
| Toluene | ND | | 42 |
| trans-1,3-Dichloropropene | ND | | 31 |
| 1,1,2-Trichloroethane | ND | | 42 |
| Tetrachloroethene | 4060 | | 45 |
| Dibromochloromethane | ND | | 54 |
| Chlorobenzene | ND | | 68 |
| Ethylbenzene | ND | | 41 |
| Total Xylenes | ND | | 82 |
| Bromoform | ND | | 42 |
| 1,1,2,2-Tetrachloroethane | ND | | 48 |
| 1,3-Dichlorobenzene | ND | | 41 |
| 1,4-Dichlorobenzene | ND | | 38 |
| 1,2-Dichlorobenzene | ND | | 50 |

Total Target Compounds: 4060

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-010
Client ID: GW/CONTROL
Date Received: 10/09/2001
Date Analyzed: 10/10/2001
Data file: G3218.D

GC/MS Column: DB-624
Sample wt/vol: 0.05mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 100
% Moisture: 100

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | No peaks detected | | |

Total TICs = 0

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-011
Client ID: GW/T-A
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Data file: G3802.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 1
% Moisture: 100

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 0.79 |
| Vinyl Chloride | ND | | 0.93 |
| Bromomethane | ND | | 0.79 |
| Chloroethane | ND | | 1.05 |
| Trichlorofluoromethane | ND | | 0.94 |
| Acrolein | ND | | 13.3 |
| 1,1-Dichloroethene | ND | | 1.02 |
| Methylene Chloride | ND | | 0.73 |
| Acrylonitrile | ND | | 6.52 |
| t-Butyl Alcohol(TBA) | ND | | 1.95 |
| trans-1,2-Dichloroethene | ND | | 0.42 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 0.42 |
| 1,1-Dichloroethane | ND | | 0.48 |
| cis-1,2-Dichloroethene | ND | | 0.51 |
| Chloroform | ND | | 0.52 |
| 1,1,1-Trichloroethane | ND | | 0.39 |
| Carbon Tetrachloride | ND | | 0.49 |
| 1,2-Dichloroethane(EDC) | ND | | 0.56 |
| Benzene | ND | | 0.35 |
| Trichloroethene | ND | | 0.56 |
| 1,2-Dichloropropane | ND | | 0.48 |
| Bromodichloromethane | ND | | 0.48 |
| 2-Chloroethylvinyl Ether | ND | | 0.51 |
| cis-1,3-Dichloropropene | ND | | 0.51 |
| Toluene | ND | | 0.42 |
| trans-1,3-Dichloropropene | ND | | 0.31 |
| 1,1,2-Trichloroethane | ND | | 0.42 |
| Tetrachloroethene | ND | | 0.45 |
| Dibromochloromethane | ND | | 0.54 |
| Chlorobenzene | ND | | 0.68 |
| Ethylbenzene | ND | | 0.41 |
| Total Xylenes | ND | | 0.82 |
| Bromoform | ND | | 0.42 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.48 |
| 1,3-Dichlorobenzene | ND | | 0.41 |
| 1,4-Dichlorobenzene | ND | | 0.38 |
| 1,2-Dichlorobenzene | ND | | 0.5 |

Total Target Compounds: 0

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-011
Client ID: GW/T-A
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Date File: G3802.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-μg/L (ppb)
Dilution Factor: 1
% Moisture: 100

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | Acetone | 7.3 | 3.93 |

Total TICs = 7.3

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-012
Client ID: GW/T-B
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Data file: G3801.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 1
% Moisture: 100

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 0.79 |
| Vinyl Chloride | ND | | 0.93 |
| Bromomethane | ND | | 0.79 |
| Chloroethane | ND | | 1.05 |
| Trichlorofluoromethane | ND | | 0.94 |
| Acrolein | ND | | 13.3 |
| 1,1-Dichloroethene | ND | | 1.02 |
| Methylene Chloride | ND | | 0.73 |
| Acrylonitrile | ND | | 6.52 |
| t-Butyl Alcohol(TBA) | ND | | 1.95 |
| trans-1,2-Dichloroethene | ND | | 0.42 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 0.42 |
| 1,1-Dichloroethane | ND | | 0.48 |
| cis-1,2-Dichloroethene | ND | | 0.51 |
| Chloroform | ND | | 0.52 |
| 1,1,1-Trichloroethane | 2.87 | | 0.39 |
| Carbon Tetrachloride | ND | | 0.49 |
| 1,2-Dichloroethane(EDC) | ND | | 0.56 |
| Benzene | ND | | 0.35 |
| Trichloroethene | ND | | 0.56 |
| 1,2-Dichloropropane | ND | | 0.48 |
| Bromodichloromethane | ND | | 0.48 |
| 2-Chloroethylvinyl Ether | ND | | 0.51 |
| cis-1,3-Dichloropropene | ND | | 0.51 |
| Toluene | ND | | 0.42 |
| trans-1,3-Dichloropropene | ND | | 0.31 |
| 1,1,2-Trichloroethane | ND | | 0.42 |
| Tetrachloroethene | ND | | 0.45 |
| Dibromochloromethane | ND | | 0.54 |
| Chlorobenzene | ND | | 0.68 |
| Ethylbenzene | ND | | 0.41 |
| Total Xylenes | ND | | 0.82 |
| Bromoform | ND | | 0.42 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.48 |
| 1,3-Dichlorobenzene | ND | | 0.41 |
| 1,4-Dichlorobenzene | ND | | 0.38 |
| 1,2-Dichlorobenzene | ND | | 0.5 |

Total Target Compounds: 2.87

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-012
Client ID: GW/T-B
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Date File: G3801.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 1
% Moisture: 100

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | Acetone | 8.3 | 3.92 |
| | Unknown | 12.9 | 5.69 |

Total TICs = 21.2

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-013
Client ID: GW/T-C
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Data file: G3800.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 1
% Moisture: 100

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 0.79 |
| Vinyl Chloride | ND | | 0.93 |
| Bromomethane | ND | | 0.79 |
| Chloroethane | ND | | 1.05 |
| Trichlorofluoromethane | ND | | 0.94 |
| Acrolein | ND | | 13.3 |
| 1,1-Dichloroethene | ND | | 1.02 |
| Methylene Chloride | ND | | 0.73 |
| Acrylonitrile | ND | | 6.52 |
| t-Butyl Alcohol(TBA) | ND | | 1.95 |
| trans-1,2-Dichloroethene | ND | | 0.42 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 0.42 |
| 1,1-Dichloroethane | ND | | 0.48 |
| cis-1,2-Dichloroethene | ND | | 0.51 |
| Chloroform | ND | | 0.52 |
| 1,1,1-Trichloroethane | 4.01 | | 0.39 |
| Carbon Tetrachloride | ND | | 0.49 |
| 1,2-Dichloroethane(EDC) | ND | | 0.56 |
| Benzene | ND | | 0.35 |
| Trichloroethene | ND | | 0.56 |
| 1,2-Dichloropropane | ND | | 0.48 |
| Bromodichloromethane | ND | | 0.48 |
| 2-Chloroethylvinyl Ether | ND | | 0.51 |
| cis-1,3-Dichloropropene | ND | | 0.51 |
| Toluene | ND | | 0.42 |
| trans-1,3-Dichloropropene | ND | | 0.31 |
| 1,1,2-Trichloroethane | ND | | 0.42 |
| Tetrachloroethene | 2.24 | | 0.45 |
| Dibromochloromethane | ND | | 0.54 |
| Chlorobenzene | ND | | 0.68 |
| Ethylbenzene | ND | | 0.41 |
| Total Xylenes | ND | | 0.82 |
| Bromoform | ND | | 0.42 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.48 |
| 1,3-Dichlorobenzene | ND | | 0.41 |
| 1,4-Dichlorobenzene | ND | | 0.38 |
| 1,2-Dichlorobenzene | ND | | 0.5 |

Total Target Compounds: 6.25

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-013
Client ID: GW/T-C
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Date File: G3800.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 1
% Moisture: 100

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | Acetone | 9.4 | 3.92 |

Total TICs = 9.4

## INTEGRATED ANALYTICAL LABORATORIES

## VOLATILE ORGANICS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-014
Client ID: GW/T-D
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Data file: G3799.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-μg/L (ppb)
Dilution Factor: 1
% Moisture: 100

| Compound | Concentration | Q | MDL |
|---|---|---|---|
| Chloromethane | ND | | 0.79 |
| Vinyl Chloride | ND | | 0.93 |
| Bromomethane | ND | | 0.79 |
| Chloroethane | ND | | 1.05 |
| Trichlorofluoromethane | ND | | 0.94 |
| Acrolein | ND | | 13.3 |
| 1,1-Dichloroethene | ND | | 1.02 |
| Methylene Chloride | ND | | 0.73 |
| Acrylonitrile | ND | | 6.52 |
| t-Butyl Alcohol(TBA) | ND | | 1.95 |
| trans-1,2-Dichloroethene | ND | | 0.42 |
| Methyl-t-Butyl Ether(MTBE) | ND | | 0.42 |
| 1,1-Dichloroethane | ND | | 0.48 |
| cis-1,2-Dichloroethene | ND | | 0.51 |
| Chloroform | ND | | 0.52 |
| 1,1,1-Trichloroethane | 2.94 | | 0.39 |
| Carbon Tetrachloride | ND | | 0.49 |
| 1,2-Dichloroethane(EDC) | ND | | 0.56 |
| Benzene | ND | | 0.35 |
| Trichloroethene | ND | | 0.56 |
| 1,2-Dichloropropane | ND | | 0.48 |
| Bromodichloromethane | ND | | 0.48 |
| 2-Chloroethylvinyl Ether | ND | | 0.51 |
| cis-1,3-Dichloropropene | ND | | 0.51 |
| Toluene | ND | | 0.42 |
| trans-1,3-Dichloropropene | ND | | 0.31 |
| 1,1,2-Trichloroethane | ND | | 0.42 |
| Tetrachloroethene | 0.809 | | 0.45 |
| Dibromochloromethane | ND | | 0.54 |
| Chlorobenzene | ND | | 0.68 |
| Ethylbenzene | ND | | 0.41 |
| Total Xylenes | ND | | 0.82 |
| Bromoform | ND | | 0.42 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.48 |
| 1,3-Dichlorobenzene | ND | | 0.41 |
| 1,4-Dichlorobenzene | ND | | 0.38 |
| 1,2-Dichlorobenzene | ND | | 0.5 |

Total Target Compounds: 3.749

## INTEGRATED ANALYTICAL LABORATORIES

### VOLATILE ORGANICS
### Tentatively Identified Compounds

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-014
Client ID: GW/T-D
Date Received: 10/09/2001
Date Analyzed: 10/30/2001
Date File: G3799.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-$\mu$g/L (ppb)
Dilution Factor: 1
% Moisture: 100

| CAS # | Compound | Estimated Concentration | Retention Time |
|---|---|---|---|
| | Unknown | 3.1 | 2.58 |
| 000067-64-1 | Acetone | 7.7 | 3.92 |
| | Unknown | 14.9 | 5.68 |

Total TICs = 25.7

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## METALS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-008
Client ID: AW2-COMPOSITE
Date Received: 10/9/01
Matrix-Units: Soil-mg/Kg (ppm)
% Moisture: 19.5

| Compound | Result | Q | DF | MDL | Date Analyzed | Method |
|---|---|---|---|---|---|---|
| Iron | 6920 | | 1 | 31.1 | 10/11/01 | 6020 |
| Manganese | 8.37 | | 1 | 6.22 | 10/11/01 | 6020 |

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## METALS

Client/Project: ISOTEC/IMC MAGNETICS

Lab ID: 6929-009
Client ID: GW/INITIAL
Date Received: 10/9/01
Matrix-Units: Aqueous-mg/L (ppm)
% Moisture: 100

| Compound | Result | Q | DF | MDL | Date Analyzed | Method |
|---|---|---|---|---|---|---|
| Iron | 0.341 | | 1 | 0.100 | 10/10/01 | 200.7 |
| Manganese | 0.0527 | | 1 | 0.020 | 10/10/01 | 200.8 |

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## TOC

Client/Project: ISOTEC/IMC MAGNETICS

Date Received: 10/9/01

| Lab ID | Client ID | Result | Q | DF | Matrix-Units | MDL | % Solids | Date Analyzed |
|---|---|---|---|---|---|---|---|---|
| 6929-008 | AW2-COMPOSITE | ND | | 1 | S-mg/Kg | 339 | 80.5 | 10/09/2001 |

Phone # (973) 361-4252
Fax # (973) 989-5288

# INTEGRATED ANALYTICAL LABORATORIES
## CHAIN OF CUSTODY

273 Franklin Rd
Randolph, NJ 07869

### CLIENT & PROJECT

| | |
|---|---|
| Company Name: ISOTEC | |
| Address: 51 Everett Dr Suite A10 West Windsor NJ | |
| Telephone #: (609)275-8500 | |
| Fax #: (609)275-9608 | |
| Project Name: IMC Diagnostics/Westbury, NY | |
| Project Manager: Pirooz Kakaie | |
| Reference ID#: 800394 PO#: 1952 | |

### REPORTING

| | |
|---|---|
| Fax to: Pirooz Kakaie | |
| Fax #: | |
| Report to: | |
| Address: Same | |
| Invoice to: | |
| Address: Same | |

### Turnaround Time

**Conditional / TPHC**
24 hr* 48 hr 72 hr 1 wk NA Other:

**Verbal/Fax**
24 hr* 48 hr 72 hr 1 wk* ~~2 wk*~~ Other:

**Hard Copy**
72 hr* 1 wk* ~~2 wk*~~ 3 wk Other:

*Prior to sample arrival, Lab notification is required.

### Report Format

~~Results Only~~
Reduced
Regulatory
SRP Disk**: dbf or wk1
Other:

### SAMPLE INFORMATION

SAMPLE MATRIX
W - Waste SL - Sludge A - Aqueous
O - Oil X - Other S - Soil
GW - Groundwater SOL - Solid

### ANALYTICAL PARAMETERS / PRESERVATIVES

** Circle format required

Preservatives: 1. HCL 3. $HNO_3$ 2. NaOH 4. $H_2SO_4$ 5. MeOH 6. Other

COOLER TEMP. 4 °C

| Sample ID | Sample Description | Sampling Date | Time | am | pm | Matrix | # of Containers | Lab ID | (V0+10) | Iron | Manganese | TOC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL/Initial | Initial | 9/27/01 | 9 | X | | SL | 1 | 1 | X | | | | |
| SL/Control | Control | 10/2/01 | 9 | X | | SL | 1 | 2 | X | | | | |
| SL/T-A | Treated | | 9 | X | | SL | 1 | 3 | X | | | | |
| SL/T-B | ↓ | | 9 | X | | SL | 1 | 4 | X | | | | ~~AA~~ |
| SL/T-C | | | 9 | X | | SL | 1 | 5 | X | | | | missing |
| SL/T-D | | | 9 | X | | SL | 1 | 6 | X | | | | |
| SL/T-E | ↓ | ↓ | 9 | X | | SL | 1 | 7 | X | | | | |
| AWJ-Composite | Field | 9/11/01 | 3 | | X | SL | 2 | 8 | | X | X | X | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Concentrations Expected: LOW (MED) HIGH

Known Hazard: ~~yes~~ no
Describe

### CUSTODY LOG

| | Signature | Date | Time | Signature |
|---|---|---|---|---|
| Relinquished by: | | 10-8-01 | 1200 | Received by: |
| Relinquished by: | | illegible | illegible | Received by: I. FRIDGE |
| Relinquished by: | I. FRIDGE | 10/9/01 | 8:00 | Received by: |
| Relinquished by: | | | | Received by: |
| Relinquished by: | | | | Received by: |

Comments: Run Control first. Then run remaining samples only if target VOCs are > ND. PCE at 2680 ug/l and TCE at 110 ug/l.

Lab Case # 6929

PAGE: 1 OF 2

LAB COPIES - WHITE & YELLOW, CLIENT COPY - PINK

Phone # (973) 361-4252
Fax # (973) 989-5288

# INTEGRATED ANALYTICAL LABORATORIES
# CHAIN OF CUSTODY

273 Franklin Rd
Randolph, NJ 07869

## CLIENT & PROJECT

| | |
|---|---|
| Company Name: TSDTEC | |
| Address: 51 Gmcatt Dr Suite A10 West Windsor NJ | |
| Telephone #: (609) 275-8500 | |
| Fax #: (609) 275-9508 | |
| Project Name: TMC Magnetics/Westbury NY | |
| Project Manager: Prasad Kakarla | |
| Reference ID#: 800394 PO#: 1852 | |

## REPORTING

| | |
|---|---|
| Fax to: Prasad Kakarla | |
| Fax #: | |
| Report to: | |
| Address: Same | |
| Invoice to: | |
| Address: Same | |

## Turnaround Time

**Conditional / TPHC**
24 hr* 48 hr 72 hr 1 wk NA Other:

**Verbal/Fax**
24 hr* 48 hr* 72 hr* 1 wk* (2 wk*) Other:

**Hard Copy**
72 hr* 1 wk* (2 wk*) 3 wk Other:

*Prior to sample arrival, Lab notification is required.

## Report Format

(Results Only)
Reduced
Regulatory
SRP Disk**: dbf or wk1
Other:

## ANALYTICAL PARAMETERS / PRESERVATIVES

** Circle format required

| 1 2 3 4 5 6 | (VOAs) | Dissolved Fe | Dissolved Mn | | | | | | | | Preservatives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1. HCL 3. $HNO_3$ 2. NaOH 4. $H_2SO_4$ 5. MeOH 6. Other |

COOLER TEMP 4 °C

## SAMPLE INFORMATION

SAMPLE MATRIX
W - Waste SL - Sludge A - Aqueous
O - Oil X - Other S - Soil
GW - Groundwater SOL - Solid

| Sample ID | Sample Description | Sampling Date | Time | am | pm | Matrix | # of Containers | Lab ID | | | | | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW/Initial | Field | 10/1/01 | 4 | | x | GW | 5 | 9 | x | x | x | | | | | | | |
| GW/Control | Control | 10/1/01 | 9 | x | | GW | 2 | 10 | x | | | | | | | | | |
| GW/T-A | Treated | 10/5/01 | 9 | x | | GW | 2 | 11 | x | | | | | | | | | |
| GW/T-B | ↓ | ↓ | 9 | x | | GW | 2 | 12 | x | | | | | | | | | |
| GW/T-C | | | 9 | x | | GW | 2 | 13 | x | | | | | | | | | |
| GW/T-D | ↓ | ↓ | 9 | x | | GW | 2 | 14 | x | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Concentrations Expected
LOW (MED) HIGH

Known Hazard (yes) no
Describe

## CUSTODY LOG

| | Signature | Date | Time | Signature |
|---|---|---|---|---|
| Relinquished by: | | 10-5-01 | 12 45 | Received by: |
| Relinquished by: | | 10-5-01 | 5:00 | Received by: T. Ardise |
| Relinquished by: | T. Ardise | 10/9/01 | 8:00 | Received by: |
| Relinquished by: | | | | Received by: |
| Relinquished by: | | | | Received by: |

Comments: Run central first. Then run remaining samples only if target VOCs are >ND.

Lab Case #
6929

PAGE: 2 OF 2

LAB COPIES - WHITE & YELLOW, CLIENT COPY - PINK

Rev 01

# CHAIN OF CUSTODY

Case No.: E01-6929 P.O. #: 1852
Project : IMC MAGNETICS/WESTBURY NY - 800394
Client/Project: ISOTEC/IMC MAGNETICS

Client Address:
Isotec
51 Everett Drive
Suite A-10
West Windsor, NJ 08550

Billing Address:
Isotec
51 Everett Drive
Suite A-10
West Windsor, NJ 08550

Date Received: 10/09/01
Time Received: 08:00
Report Format: Standard

Verbal Due: Oct 15
Report Due: Oct 30

| # of Containers | 3 | 2 | 2 | 2 | 2 | 2 |
|---|---|---|---|---|---|---|
| IAL ID # | 6929-009 | 6929-010 | 6929-011 | 6929-012 | 6929-013 | 6929-014 |
| Client ID # | GW/INITI | GW/CONTR | GW/T-A | GW/T-B | GW/T-C | GW/T-D |
| | AL | OL | | | | |
| Matrix | Aqueous | Aqueous | Aqueous | Aqueous | Aqueous | Aqueous |
| Sample Date | 10/01/01 | 10/01/01 | 10/08/01 | 10/08/01 | 10/08/01 | 10/08/01 |
| Sample Time | 16:00 | 09:00 | 09:00 | 09:00 | 09:00 | 09:00 |
| MTBE + TBA | √ | √ | √ | √ | √ | √ |
| VO+10, PP LIST | √ | √ | √ | √ | √ | √ |
| Cis 1,2-DCE | √ | √ | √ | √ | √ | √ |
| Fe-Iron | √ | | | | | |
| Mn-Manganese | √ | | | | | |
| 200 Series | √ | | | | | |
| Spl Filtration | √ | | | | | |

Comments: NOTE 1: SAMPLES #1 & #3 - #7, #9 & #11 - #14 ON HOLD FOR VO ANALYSIS PENDING RESULTS OF SAMPLES #2 & #10.
NOTE 2: SAMPLE FOR DISSOLVED FE & MN TO BE FILTERED AT LAB.
NOTE 3: AS PER COC, EXPECT CONCENTRATIONS AS FOLLOWS: PCE = 2680 ppb & TCE = 110 ppb.
REV 01: PER TOM A., RUN ALL ANALYSIS ON SAMPLES #1, #3 - #7, #9 & #11 - #14 10/17/01. RESULTS DUE 10/26/01. dgk

# CHAIN OF CUSTODY

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Report Format: Standard

Verbal Due: Oct 15
Report Due: Oct 30

| # of Containers | 1 | 1 | 1 | 1 | 1 | 1 |
|---|---|---|---|---|---|---|
| IAL ID # | 6929-001 | 6929-002 | 6929-003 | 6929-004 | 6929-005 | 6929-006 |
| Client ID # | SL/INITI | SL/CONTR | SL/T-A | SL/T-B | SL/T-C | SL/T-D |
| | AL | OL | | | | |
| Matrix | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | 09/27/01 | 10/08/01 | 10/08/01 | 10/08/01 | 10/08/01 | 10/08/01 |
| Sample Time | 09:00 | 09:00 | 09:00 | 09:00 | 09:00 | 09:00 |
| MTBE + TBA | √ | √ | √ | √ | √ | √ |
| VO+10, PP LIST | √ | √ | √ | √ | √ | √ |
| Cis 1,2-DCE | √ | √ | √ | √ | √ | √ |
| % Solids | √ | √ | √ | √ | √ | √ |

Comments: NOTE 1: SAMPLES #1 & #3 - #7, #9 & #11 - #14 ON HOLD FOR VO ANALYSIS PENDING RESULTS OF SAMPLES #2 & #10.
NOTE 2: SAMPLE FOR DISSOLVED FE & MN TO BE FILTERED AT LAB.
NOTE 3: AS PER COC, EXPECT CONCENTRATIONS AS FOLLOWS: PCE = 2680 ppb & TCE = 110 ppb.
REV 01: PER TOM A., RUN ALL ANALYSIS ON SAMPLES #1, #3 - #7, #9 & #11 - #14 10/17/01. RESULTS DUE 10/26/01. dgk

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Date Received: 10/09/01
Time Received: 08:00
Report Format: Standard

Verbal Due: Oct 15
Report Due: Oct 30

| # of Containers | 1 | 2 |
|---|---|---|
| IAL ID # | 6929-007 | 6929-008 |
| Client ID # | SL/T-E | AW2-COMP OSITE |
| | | |
| Matrix | Soil | Soil |
| Sample Date | 10/08/01 | 09/11/01 |
| Sample Time | 09:00 | 15:00 |
| MTBE + TBA | √ | |
| VO+10, PP LIST | √ | |
| Cis 1,2-DCE | √ | |
| Fe-Iron | | √ |
| Mn-Manganese | | √ |
| 6000 Series | | √ |
| % Solids | √ | √ |
| TOC | | √ |

Comments: NOTE 1: SAMPLES #1 & #3 - #7, #9 & #11 - #14 ON HOLD FOR VO ANALYSIS PENDING RESULTS OF SAMPLES #2 & #10.
NOTE 2: SAMPLE FOR DISSOLVED FE & MN TO BE FILTERED AT LAB.
NOTE 3: AS PER COC, EXPECT CONCENTRATIONS AS FOLLOWS: PCE = 2680 ppb & TCE = 110 ppb.
REV 01: PER TOM A., RUN ALL ANALYSIS ON SAMPLES #1, #3 - #7, #9 & #11 - #14 10/17/01. RESULTS DUE 10/26/01. dgk

Integrated Analytical Laboratories, LLC.

Laboratory Custody Chronicle

Case No : E01-6929
Client : Isotec
Project : IMC MAGNETICS/WESTBURY NY - 800394

| | GC/MS V | | EXTRACT DATE | TIME | INITIAL | ANALYSIS DATE | TIME | INITIAL |
|---|---|---|---|---|---|---|---|---|
| MTBE + TBA | 6929-001 | S | | | | 10/09-10/23/01 | | DSD |
| | 6929-002 | S | | | | | | |
| | 6929 003 | S | | | | | | |
| | 6929 004 | S | | | | | | |
| | 6929 005 | S | | | | | | |
| | 6929 006 | S | | | | | | |
| | 6929 007 | S | | | | | | |
| | 6929 009 | A | | | | | | |
| | 6929-010 | A | | | | 10-9 | 900 | DSD |
| | 6929 011 | A | | | | 10/30/01 | | 10 |
| | 6929 012 | A | | | | | | |
| | 6929 013 | A | | | | | | |
| | 6929 014 | A | | | | | | |
| VO+10, PP LIST | 6929 001 | S | | | | 10/09-10/23/01 | | DSD |
| | 6929-002 | S | | | | | | |
| | 6929 003 | S | | | | | | |
| | 6929 004 | S | | | | | | |
| | 6929 005 | S | | | | | | |
| | 6929 006 | S | | | | | | |
| | 6929 007 | S | | | | | | |
| | 6929 009 | A | | | | | | |
| | 6929-010 | A | | | | 10-9 | 900 | DSD |
| | 6929 011 | A | | | | 10/30/01 | | 10 |
| | 6929 012 | A | | | | | | |
| | 6929 013 | A | | | | | | |
| | 6929 014 | A | | | | | | |
| Cis 1,2-DCE | 6929 001 | S | | | | | | |
| | 6929-002 | S | | | | 10/9-10/23/01 | | DSD |
| | 6929 003 | S | | | | | | |
| | 6929 004 | S | | | | | | |
| | 6929 005 | S | | | | | | |
| | 6929 006 | S | | | | | | |
| | 6929 007 | S | | | | | | |
| | 6929 009 | A | | | | | | |
| | 6929-010 | A | | | | 10-9 | 900 | DSD |
| | 6929 011 | A | | | | 10/30/01 | | 10 |
| | 6929 012 | A | | | | | | |
| | 6929 013 | A | | | | | | |
| | 6929 014 | A | | | | | | |
| | METALS | | | | | | | |
| Fe-Iron | 6929-008 | S | 10/11/01 | | JL | 10/11 | 1400 | JL |
| | 6929-009 | A | 10/10/01 | | JL | 10/10 | 1200 | JL |
| Mn-Manganese | 6929-008 | S | 10/11/01 | | JL | 10/11 | 1400 | JL |
| | 6929-009 | A | 10/10/01 | | JL | 10/10 | 1200 | JL |
| 200 Series | 6929-009 | A | | | | | | |
| 6000 Series | 6929-008 | S | | | | | | |