AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

February 07, 2001

Tim Dame
GEI Consultants, Inc.
1021 Main Street
Winchester, MA 01890
TEL: (781) 721-4000
FAX: (781) 721-4073

RE: 00291 MDC-Canton

Order No.: 0101218

Dear Tim Dame:

AMRO Environmental Laboratories Corp. received 6 samples on 1/25/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached. Please see the enclosed Case Narrative for quality control deviations that were encountered during the analyses associated with this project.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 136 pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

Nancy Stewart
Vice President / Lab Director

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291 MDC-Canton
**Lab Order:** 0101218
**Date Received:** 1/25/01

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Collection Date |
|---|---|---|
| 0101218-01A | 00291-H5 | 1/23/01 |
| 0101218-01B | 00291-H5 | 1/23/01 |
| 0101218-01C | 00291-H5 | 1/23/01 |
| 0101218-01D | 00291-H5 | 1/23/01 |
| 0101218-02A | 00291-H2 | 1/23/01 |
| 0101218-02B | 00291-H2 | 1/23/01 |
| 0101218-02C | 00291-H2 | 1/23/01 |
| 0101218-02D | 00291-H2 | 1/23/01 |
| 0101218-03A | 00291-A7 | 1/23/01 |
| 0101218-03B | 00291-A7 | 1/23/01 |
| 0101218-03C | 00291-A7 | 1/23/01 |
| 0101218-03D | 00291-A7 | 1/23/01 |
| 0101218-04A | 00291-A9 | 1/23/01 |
| 0101218-04B | 00291-A9 | 1/23/01 |
| 0101218-04C | 00291-A9 | 1/23/01 |
| 0101218-04D | 00291-A9 | 1/23/01 |
| 0101218-05A | 00291-G9 | 1/23/01 |
| 0101218-05B | 00291-G9 | 1/23/01 |
| 0101218-05C | 00291-G9 | 1/23/01 |
| 0101218-05D | 00291-G9 | 1/23/01 |
| 0101218-06A | 00291-A1 | 1/23/01 |
| 0101218-06B | 00291-A1 | 1/23/01 |
| 0101218-06C | 00291-A1 | 1/23/01 |
| 0101218-06D | 00291-A1 | 1/23/01 |

# AMRO Environmental Laboratories Corp.

*01-Feb-01*

**Lab Order:** 0101218
**Client:** GEI Consultants, Inc.
**Project:** 00291 MDC-Canton

# DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0101218-01A | 00291-H5 | 1/23/01 | Soil | Volatile Petroleum Hydrocarbons | | 1/23/01 | 1/30/01 |
| 0101218-01B | | | | VOLATILES by GC/MS, Medium-Level | | 1/23/01 | 1/31/01 |
| 0101218-01C | | | | EPH, Soil, Full List | | 1/26/01 | 1/30/01 |
| 0101218-01D | | | | ICP METALS, 3051/6010 | | 1/26/01 | 1/30/01 |
| | | | | MERCURY, Soil | | 1/29/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/29/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/29/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/30/01 |
| | | | | Percent Moisture | | | 1/26/01 |
| | | | | SEMIVOLATILE ORGANICS, Soil/Solids | | 1/29/01 | 1/29/01 |
| 0101218-02A | 00291-H2 | | | Volatile Petroleum Hydrocarbons | | 1/23/01 | 1/30/01 |
| 0101218-02B | | | | VOLATILES by GC/MS, Medium-Level | | 1/24/01 | 1/29/01 |
| 0101218-02C | | | | EPH, Soil, Full List | | 1/26/01 | 1/30/01 |
| 0101218-02D | | | | ICP METALS, 3051/6010 | | 1/26/01 | 1/30/01 |
| | | | | MERCURY, Soil | | 1/29/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/29/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/29/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/30/01 |
| | | | | Percent Moisture | | | 1/26/01 |
| | | | | SEMIVOLATILE ORGANICS, Soil/Solids | | 1/29/01 | 1/29/01 |
| 0101218-03A | 00291-A7 | | | Volatile Petroleum Hydrocarbons | | 1/23/01 | 1/30/01 |
| 0101218-03B | | | | VOLATILES by GC/MS, Medium-Level | | 1/24/01 | 1/29/01 |
| 0101218-03C | | | | EPH, Soil, Full List | | 1/26/01 | 1/30/01 |
| 0101218-03D | | | | ICP METALS, 3051/6010 | | 1/26/01 | 1/30/01 |
| | | | | MERCURY, Soil | | 1/29/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/30/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/30/01 |

# AMRO Environmental Laboratories Corp.

*01-Feb-01*

**Lab Order:** 0101218
**Client:** GEI Consultants, Inc.
**Project:** 00291 MDC-Canton

# DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0101218-03D | 00291-A7 | 1/23/01 | Soil | Percent Moisture | | | 1/26/01 |
| | | | | SEMIVOLATILE ORGANICS, Soil/Solids | | 1/29/01 | 1/29/01 |
| 0101218-04A | 00291-A9 | | | Volatile Petroleum Hydrocarbons | | 1/23/01 | 1/30/01 |
| 0101218-04B | | | | VOLATILES by GC/MS, Medium-Level | | 1/24/01 | 1/29/01 |
| 0101218-04C | | | | EPH, Soil, Full List | | 1/26/01 | 1/30/01 |
| 0101218-04D | | | | ICP METALS, 3051/6010 | | 1/26/01 | 1/30/01 |
| | | | | MERCURY, Soil | | 1/29/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/30/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/30/01 |
| | | | | Percent Moisture | | | 1/26/01 |
| | | | | SEMIVOLATILE ORGANICS, Soil/Solids | | 1/29/01 | 1/30/01 |
| 0101218-05A | 00291-G9 | | | Volatile Petroleum Hydrocarbons | | 1/23/01 | 1/30/01 |
| 0101218-05B | | | | VOLATILES by GC/MS, Medium-Level | | 1/24/01 | 1/29/01 |
| 0101218-05C | | | | EPH, Soil, Full List | | 1/26/01 | 1/30/01 |
| 0101218-05D | | | | ICP METALS, 3051/6010 | | 1/26/01 | 1/30/01 |
| | | | | MERCURY, Soil | | 1/29/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/30/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/29/01 |
| | | | | Percent Moisture | | | 1/26/01 |
| | | | | SEMIVOLATILE ORGANICS, Soil/Solids | | 1/29/01 | 1/30/01 |
| 0101218-06A | 00291-A1 | | | Volatile Petroleum Hydrocarbons | | 1/23/01 | 1/30/01 |
| 0101218-06B | | | | VOLATILES by GC/MS, Medium-Level | | 1/23/01 | 1/31/01 |
| 0101218-06C | | | | EPH, Soil, Full List | | 1/26/01 | 1/30/01 |
| 0101218-06D | | | | ICP METALS, 3051/6010 | | 1/26/01 | 1/30/01 |
| | | | | MERCURY, Soil | | 1/29/01 | 1/29/01 |
| | | | | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/30/01 |

# AMRO Environmental Laboratories Corp.

*01-Feb-01*

**Lab Order:** 0101218
**Client:** GEI Consultants, Inc.
**Project:** 00291 MDC-Canton

# DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Date | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0101218-06D | 00291-A1 | 1/23/01 | Soil | ORGANOCHLORINE PESTICIDES | | 1/26/01 | 1/30/01 |
| | | | | PCBS IN SOIL/SOLIDS | | 1/26/01 | 1/30/01 |
| | | | | Percent Moisture | | | 1/26/01 |
| | | | | SEMIVOLATILE ORGANICS, Soil/Solids | | 1/29/01 | 1/30/01 |

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

# CHAIN-OF-CUSTODY RECORD

37169

Office: (603) 424-2022
Fax: (603) 429-8496

| Project No.: 00291 | Project Name: MDC- Canton | Project Manager: Anne Leifer | Samplers (Signature): Brenda Clark, Andrew Stone | AMRO Project No.: 010121X |
|---|---|---|---|---|
| | | Project State: | | |

| Sample ID | Date/Time Sampled | Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify) | Total # of Cont. | VPH | 8260/8240 VOCs | EPH | 8270-SVOCs PAH/Metals 8081/8082 | | | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | No. of Containers | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| 00291-H5 | 01/23/01 12:50 | S | 4 | X | X | X | X | | | | | | | | | | | |
| 00291-H2 | 01/23/01 1340 | S | 4 | X | X | X | X | | | | | | | | | | | |
| 00291-A7 | 01/23/01 1405 | S | 4 | X | X | X | X | | | | | | | | | | | |
| 00291-A9 | 01/23/01 1435 | S | 4 | X | X | X | X | | | | | | | | | | | |
| 00291-G9 | 01/23/01 1510 | S | 4 | X | X | X | X | | | | | | | | | | | |
| 00291-A1 | 01/23/01 1515 | S | 4 | X | X | X | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

**Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.**

FAX [X] FAX No.: (781)721-4073

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;
MDC contract rates

Send Results To: Anne Leifer Tim Dame

Seal Intact? Yes No (N/A)

GW-1 ____ GW-2 ____ GW-3 ____

MCP Level Needed: ____

P.O. No: ____

Results Needed By: Normal

| | | | |
|---|---|---|---|
| Relinquished By: Brenda Clark | Date/ Time: 01/23/01 17 17 | Received By: [illegible] | |
| Relinquished By: ____ | Date/ Time: ____ | Received By: ____ | |
| Relinquished By: [illegible] | Date/ Time: 1/24/01 1540 | Received By: [illegible] | |

**PRIORITY TURNAROUND TIME AUTHORIZATION**
Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT **AUTHORIZATION NUMBER**
**AUTHORIZATION No.** ____ **BY:** ____

**SHEET** ____ **OF** ____

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

AMRO Environmental Laboratories Corporation

# SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Client: GET
Project Name: MDC- Canton
Ship via: (circle one) Fed Ex., UPS, AMRO Courier.
Hand Del., Other Courier. Other:

AMRO ID: 0101218
Date Rec.: 1-25-01
Date Due: 2-6-01

| Items to be Checked Upon Receipt | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Army Samples received in individual plastic bags? | | | ✓ | |
| 2. Custody Seals present? | | | ✓ | |
| 3. Custody Seals Intact? | | | ✓ | |
| 4. Air Bill included in folder if received? | | | ✓ | |
| 5. Is COC included with samples? | ✓ | | | |
| 6. Is COC signed and dated by client? | ✓ | | | |
| 7. Laboratory receipt temperature. TEMP = 2° | | | | |
| Samples rec. with ice ✓ ice packs___ neither___ | | | | |
| 8. Were samples received the same day they were sampled? | | ✓ | | |
| Is client temperature 4°C ± 2°C? | ✓ | | | |
| **If no obtain authorization from the client for the analyses.** | | | | |
| **Client authorization from: Date: Obtained by:** | | | | |
| 9. Is the COC filled out correctly and completely? | ✓ | | | |
| 10. Does the info on the COC match the samples? | ✓ | | | |
| 11. Were samples rec. within holding time? | ✓ | | | |
| 12. Were all samples properly labeled? | ✓ | | | |
| 13. Were all samples properly preserved? | ✓ | | | |
| 14. Were proper sample containers used? | ✓ | | | |
| 15. Were all samples received intact? (none broken or leaking) | ✓ | | | |
| 16. Were VOA vials rec. with no air bubbles? | | | ✓ | |
| 17. Were the sample volumes sufficient for requested analysis? | ✓ | | | No QC for VOC/VPH - 1 v |
| 18. Were all samples received? | ✓ | | | cc |
| 19. VPH and VOA Soils only: | ✓ | | | |
| Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container) | | | | |
| Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk | | | | |
| If M or SB: | | | | |
| Does preservative cover the soil? | ✓ | | | |
| **If NO then client must be faxed.** | | | | |
| Does preservation level come close to the fill line on the vial? | ✓ | | | |
| **If NO then client must be faxed.** | | | | |
| Were vials provided by AMRO? | ✓ | | | |
| **If NO then weights MUST be obtained from client** | | | | |
| Was dry weight aliquot provided? | | | ✓ | |
| **If NO then fax client and inform the VOA lab ASAP.** | | | | |
| 20. Subcontracted Samples: | | | ✓ | |
| What samples sent: | | | | |
| Where sent: | | | | |
| Date: | | | | |
| Analysis: | | | | |
| TAT: | | | | |
| 21. Information entered into: | | | | |
| Internal Tracking Log? | ✓ | | | |
| Dry Weight Log? | ✓ | | | |
| Client Log? | | ✓ | | |
| Composite Log? | | | ✓ | |
| Filtration Log? | | | ✓ | |

Received By: MG Date: 1-25-01 Logged in By: CC Date: 1-26-01
Labeled By: CC Date: 1-26-01 Checked By: Date:

NA= Not Applicable

# The Commonwealth of Massachusetts

## Department of Environmental Protection

### Division of Environmental Analysis
### Senator William X. Wall Experiment Station

*certifies*

**M-NH012** **AMRO ENVIRONMENTAL LAB**
**111 HERRICK ST**
**MERRIMACK, NH 03054-0000**

*Laboratory Director:* **Nancy Stewart**

***for the analysis of*** **NON POTABLE WATER (CHEMISTRY)**
**POTABLE WATER (CHEMISTRY)**

*pursuant to 310 CMR 42.00*

*This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.*

*This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.*

*Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.*

*Issued:* **01 JUL 2000**
*Expires:* **30 JUN 2001**

*Director, Division of Environmental Analysis*

# CASE NARRATIVE
# 0101218

## GENERAL

1. No QC deviations were observed.

## GC/MS-VOLATILES
## SOIL

1. The method blank analyzed on 01/29/01 contained Carbon Disulfide at 33.25µg/kg below the laboratory reporting limit 50µg/kg.

2. No other QC deviations were observed.

## MADEP-VPH
## SOIL

1. The batch Matrix Spike (MS) and Matrix Spike duplicate (MSD) were performed on sample 00291-A9 (0101218-04A). All %R's and %RPD's were within control limits with the following exceptions:

    2.1 The recovery for Naphthalene was 159% outside the laboratory control limits (70-130%) in the MS.

    2.2 The %RPD for Naphthalene was 31.9% outside the laboratory control limit (25%).

2. No other QC deviations were observed.

## GC/MS-SEMIVOLATILE
## SOIL

1. All surrogate recoveries were outside the laboratory control limits in 00291-A9 (0101218-04D) Matrix Spike due to a possible spiking error.

2. No other QC deviations were observed.

## MADEP-EPH
## SOIL

1. Sample 00291-H5 (0101218-01C) had the native concentration of Aroclor in the sample contributing significantly to reported value of C11-C22 range.

2. The laboratory control sample (LCS-3696) had a recovery for n-Nonane at 37.4% outside the laboratory control limits (40-140%).

3. No other QC deviations were observed.

**GC/ECD-PESTICIDES**
**SOIL**

1. The surrogate Decachlorobiphenyl recovered above the laboratory control limits (41-154%) in the following samples: 00291-H5 (0101218-01D) and 00291-H2 (0101218-02D), 00291-G9 (010128-05D) at 198%, 163% and 217% respectively due to matrix interference.

2. The surrogate Tetrachloro-m-xylene recovered below laboratory control limits (50-150%) in sample 00291-A7 (0101218-03D) at 35.6% possibly due to high % moisture of sample.

3. The %difference (%D) for some compounds in the closing Continuing Calibration Verification standards (CCV) analyzed on 01/29/01 and 01/30/01 exceeded the ±15% limit. All samples were analyzed twice with the same result.

4. No other QC deviations were observed.

**GC/ECD-PCBS**
**SOIL**

1. The surrogate Decachlorobiphenyl recovered above the laboratory control limits (56-130%) in the following samples: 00291-H5 (00101218-01D) and 00291-H2 (00101218-02D) at 190% and 132% respectively due to matrix interference.

2. The surrogate Tetrachloro-m-xylene recovered below the laboratory control limits (43-175%) in sample 00291-A7 (00101218-03D) at 31.3% possibly due to high % moisture of sample.

3. No other QC deviations were observed.

**METALS – SOIL**

1. No QC deviations were observed.

**Volatile Petroleum Hydrocarbons (VPH)**
**Massachusetts Department of Environmental Protection (MADEP)**
**Method 1.0 - January 1998**
**AMRO Modifications**

This modification is based on the use of a purge and trap gas chromatography mass spectrometer (GC/MS) system to analyze samples for VPH. The hydrocarbon ranges are quantified using predominant mass fragmentation ions which are characteristic for the range being measured. This approach eliminates potential false positives for the target analytes while providing accurate hydrocarbon range data.

The chromatographic column is an HP-624 capillary column which has been validated by GC/MS analysis of a gasoline standard to correctly identify the marker compounds and elution order of specific gasoline components. Batch quality control includes, at a minimum, method blank, laboratory control sample, and duplicate analysis. A matrix spike and/or matrix spike duplicate is analyzed if sufficient sample is submitted to the laboratory.

The Reporting Limit (RL) of this method for each of the collective aliphatic and aromatic ranges is approximately 0.6-2.8 mg/kg in soil and 25-110 μg/L in water. The RL of this method for the target analytes ranges from approximately 0.05-0.13 mg/kg in soil and 2.0-5.0 μg/L for water samples.

**Extractable Petroleum Hydrocarbons (EPH)**
**Massachusetts Department of Environmental Protection (MADEP)**
**Method 1.0 - January 1998**
**AMRO Modifications**

This modification is based on a solvent extraction and gas chromatography mass spectrometer (GC/MS) analysis. The hydrocarbon ranges are quantified using predominant mass fragmentation ions which are characteristic for the range being measured. This approach eliminates the silica gel solid-phase fractionation step. False positives for targeted PAH analytes are eliminated by using GC/MS as the primary analysis technique.

The chromatographic column is a J&W Scientific DB-5ms capillary column.
Internal standard calibration is performed using 5α-Androstane at a concentration of 40 ng/μL. o-Terphenyl and 1-Chlorooctadecane are added as surrogate compounds at 20 ng/μL in the sample extract. These two surrogates monitor the effects of the sample matrix and extraction efficiency. Two additional surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, are added to the finished extract prior to analysis to monitor instrument performance. Batch quality control includes, at a minimum, a procedure blank, laboratory control sample and duplicate sample analysis. A matrix spike is analyzed if sufficient sample is submitted to the laboratory.

The Reporting Limit (RL) of this method for each of the collective aliphatic and aromatic ranges is approximately 2-15 mg/kg in soil and 10-50 μg/L in water. The RL of this method for the Target PAH analytes ranges from approximately 0.25 to 0.5mg/kg in soil; 1.0μg/L for water when operating the GC/MS in full scan mode, and 0.1 to 1.0μg/L when operating the GC/MS in SIM mode. For sites requiring the lowest levels cited in the Massachusetts Contingency Plan for water, GC/MS in the Selected Ion Monitoring (SIM) mode is used.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B** | | | | | | Analyst: **LN** |
| Dichlorodifluoromethane | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Chloromethane | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Vinyl chloride | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Chloroethane | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Bromomethane | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Trichlorofluoromethane | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Acetone | ND | 520 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1-Dichloroethene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Carbon disulfide | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Methylene chloride | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Methyl tert-butyl ether | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| trans-1,2-Dichloroethene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1-Dichloroethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 2-Butanone | ND | 520 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 2,2-Dichloropropane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| cis-1,2-Dichloroethene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Chloroform | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Bromochloromethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1,1-Trichloroethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1-Dichloropropene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Carbon tetrachloride | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2-Dichloroethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Benzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Trichloroethene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2-Dichloropropane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Bromodichloromethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Dibromomethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 4-Methyl-2-pentanone | ND | 520 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| cis-1,3-Dichloropropene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Toluene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| trans-1,3-Dichloropropene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1,2-Trichloroethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2-Dibromoethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 2-Hexanone | ND | 520 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,3-Dichloropropane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Tetrachloroethene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Dibromochloromethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Chlorobenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| m,p-Xylene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| o-Xylene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Styrene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Bromoform | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Isopropylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2,3-Trichloropropane | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Bromobenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| n-Propylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 2-Chlorotoluene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 4-Chlorotoluene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,3,5-Trimethylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| tert-Butylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2,4-Trimethylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| sec-Butylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 4-Isopropyltoluene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,3-Dichlorobenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,4-Dichlorobenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| n-Butylbenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2-Dichlorobenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2,4-Trichlorobenzene | 77 | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Hexachlorobutadiene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Naphthalene | ND | 100 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| 1,2,3-Trichlorobenzene | ND | 52 | | µg/Kg-dry | 1 | 1/31/01 5:26:00 PM |
| Surr: Dibromofluoromethane | 87.1 | 66-121 | | %REC | 1 | 1/31/01 5:26:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 96.6 | 64-125 | | %REC | 1 | 1/31/01 5:26:00 PM |
| Surr: Toluene-d8 | 92.8 | 67-124 | | %REC | 1 | 1/31/01 5:26:00 PM |
| Surr: 4-Bromofluorobenzene | 92.9 | 62-119 | | %REC | 1 | 1/31/01 5:26:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B** | | | | | | Analyst: **SK** |
| Dichlorodifluoromethane | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Chloromethane | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Vinyl chloride | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Chloroethane | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Bromomethane | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Trichlorofluoromethane | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Acetone | ND | 440 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1-Dichloroethene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Carbon disulfide | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Methylene chloride | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Methyl tert-butyl ether | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| trans-1,2-Dichloroethene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1-Dichloroethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 2-Butanone | ND | 440 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 2,2-Dichloropropane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| cis-1,2-Dichloroethene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Chloroform | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Bromochloromethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1,1-Trichloroethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1-Dichloropropene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Carbon tetrachloride | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2-Dichloroethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Benzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Trichloroethene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2-Dichloropropane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Bromodichloromethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Dibromomethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 4-Methyl-2-pentanone | ND | 440 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| cis-1,3-Dichloropropene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Toluene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| trans-1,3-Dichloropropene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1,2-Trichloroethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2-Dibromoethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 2-Hexanone | ND | 440 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,3-Dichloropropane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Tetrachloroethene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Dibromochloromethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Chlorobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| m,p-Xylene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| o-Xylene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Styrene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Bromoform | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Isopropylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2,3-Trichloropropane | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Bromobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| n-Propylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 2-Chlorotoluene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 4-Chlorotoluene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,3,5-Trimethylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| tert-Butylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2,4-Trimethylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| sec-Butylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 4-Isopropyltoluene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,3-Dichlorobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,4-Dichlorobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| n-Butylbenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2-Dichlorobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2,4-Trichlorobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Hexachlorobutadiene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Naphthalene | ND | 87 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| 1,2,3-Trichlorobenzene | ND | 44 | | µg/Kg-dry | 1 | 1/29/01 7:49:00 PM |
| Surr: Dibromofluoromethane | 91.4 | 66-121 | | %REC | 1 | 1/29/01 7:49:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 99.5 | 64-125 | | %REC | 1 | 1/29/01 7:49:00 PM |
| Surr: Toluene-d8 | 94.2 | 67-124 | | %REC | 1 | 1/29/01 7:49:00 PM |
| Surr: 4-Bromofluorobenzene | 88.3 | 62-119 | | %REC | 1 | 1/29/01 7:49:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

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* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B** | | | | | | Analyst: SK |
| Dichlorodifluoromethane | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Chloromethane | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Vinyl chloride | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Chloroethane | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Bromomethane | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Trichlorofluoromethane | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Acetone | ND | 1,900 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1-Dichloroethene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Carbon disulfide | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Methylene chloride | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Methyl tert-butyl ether | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| trans-1,2-Dichloroethene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1-Dichloroethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 2-Butanone | ND | 1,900 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 2,2-Dichloropropane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| cis-1,2-Dichloroethene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Chloroform | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Bromochloromethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1,1-Trichloroethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1-Dichloropropene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Carbon tetrachloride | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2-Dichloroethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Benzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Trichloroethene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2-Dichloropropane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Bromodichloromethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Dibromomethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 4-Methyl-2-pentanone | ND | 1,900 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| cis-1,3-Dichloropropene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Toluene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| trans-1,3-Dichloropropene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1,2-Trichloroethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2-Dibromoethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 2-Hexanone | ND | 1,900 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,3-Dichloropropane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Tetrachloroethene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Dibromochloromethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Chlorobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| m,p-Xylene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| o-Xylene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Styrene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Bromoform | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Isopropylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2,3-Trichloropropane | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Bromobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| n-Propylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 2-Chlorotoluene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 4-Chlorotoluene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,3,5-Trimethylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| tert-Butylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2,4-Trimethylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| sec-Butylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 4-Isopropyltoluene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,3-Dichlorobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,4-Dichlorobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| n-Butylbenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2-Dichlorobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2,4-Trichlorobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Hexachlorobutadiene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Naphthalene | ND | 390 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| 1,2,3-Trichlorobenzene | ND | 190 | | µg/Kg-dry | 1 | 1/29/01 8:24:00 PM |
| Surr: Dibromofluoromethane | 89.4 | 66-121 | | %REC | 1 | 1/29/01 8:24:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 97.3 | 64-125 | | %REC | 1 | 1/29/01 8:24:00 PM |
| Surr: Toluene-d8 | 91.7 | 67-124 | | %REC | 1 | 1/29/01 8:24:00 PM |
| Surr: 4-Bromofluorobenzene | 81.5 | 62-119 | | %REC | 1 | 1/29/01 8:24:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B** | | | | | | Analyst: **SK** |
| Dichlorodifluoromethane | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Chloromethane | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Vinyl chloride | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Chloroethane | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Bromomethane | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Trichlorofluoromethane | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Acetone | ND | 1,700 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1-Dichloroethene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Carbon disulfide | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Methylene chloride | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Methyl tert-butyl ether | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| trans-1,2-Dichloroethene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1-Dichloroethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 2-Butanone | ND | 1,700 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 2,2-Dichloropropane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| cis-1,2-Dichloroethene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Chloroform | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Bromochloromethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1,1-Trichloroethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1-Dichloropropene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Carbon tetrachloride | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2-Dichloroethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Benzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Trichloroethene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2-Dichloropropane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Bromodichloromethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Dibromomethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 4-Methyl-2-pentanone | ND | 1,700 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| cis-1,3-Dichloropropene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Toluene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| trans-1,3-Dichloropropene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1,2-Trichloroethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2-Dibromoethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 2-Hexanone | ND | 1,700 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,3-Dichloropropane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Tetrachloroethene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Dibromochloromethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Chlorobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Client Sample ID:** 00291-A9
**Lab Order:** 0101218
**Project:** 00291 MDC-Canton
**Collection Date:** 1/23/01
**Lab ID:** 0101218-04B
**Matrix:** SOIL

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| m,p-Xylene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| o-Xylene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Styrene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Bromoform | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Isopropylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2,3-Trichloropropane | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Bromobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| n-Propylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 2-Chlorotoluene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 4-Chlorotoluene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,3,5-Trimethylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| tert-Butylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2,4-Trimethylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| sec-Butylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 4-Isopropyltoluene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,3-Dichlorobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,4-Dichlorobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| n-Butylbenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2-Dichlorobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2,4-Trichlorobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Hexachlorobutadiene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Naphthalene | ND | 350 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| 1,2,3-Trichlorobenzene | ND | 170 | | µg/Kg-dry | 1 | 1/29/01 8:59:00 PM |
| Surr: Dibromofluoromethane | 87.2 | 66-121 | | %REC | 1 | 1/29/01 8:59:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 98.3 | 64-125 | | %REC | 1 | 1/29/01 8:59:00 PM |
| Surr: Toluene-d8 | 90.8 | 67-124 | | %REC | 1 | 1/29/01 8:59:00 PM |
| Surr: 4-Bromofluorobenzene | 78.6 | 62-119 | | %REC | 1 | 1/29/01 8:59:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B** | | | | | | Analyst: **SK** |
| Dichlorodifluoromethane | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Chloromethane | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Vinyl chloride | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Chloroethane | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Bromomethane | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Trichlorofluoromethane | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Acetone | ND | 480 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1-Dichloroethene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Carbon disulfide | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Methylene chloride | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Methyl tert-butyl ether | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| trans-1,2-Dichloroethene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1-Dichloroethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 2-Butanone | ND | 480 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 2,2-Dichloropropane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| cis-1,2-Dichloroethene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Chloroform | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Bromochloromethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1,1-Trichloroethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1-Dichloropropene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Carbon tetrachloride | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2-Dichloroethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Benzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Trichloroethene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2-Dichloropropane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Bromodichloromethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Dibromomethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 4-Methyl-2-pentanone | ND | 480 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| cis-1,3-Dichloropropene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Toluene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| trans-1,3-Dichloropropene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1,2-Trichloroethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2-Dibromoethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 2-Hexanone | ND | 480 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,3-Dichloropropane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Tetrachloroethene | 100 | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Dibromochloromethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Chlorobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| m,p-Xylene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| o-Xylene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Styrene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Bromoform | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Isopropylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2,3-Trichloropropane | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Bromobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| n-Propylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 2-Chlorotoluene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 4-Chlorotoluene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,3,5-Trimethylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| tert-Butylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2,4-Trimethylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| sec-Butylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 4-Isopropyltoluene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,3-Dichlorobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,4-Dichlorobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| n-Butylbenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2-Dichlorobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2,4-Trichlorobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Hexachlorobutadiene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Naphthalene | ND | 97 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| 1,2,3-Trichlorobenzene | ND | 48 | | µg/Kg-dry | 1 | 1/29/01 9:33:00 PM |
| Surr: Dibromofluoromethane | 89.3 | 66-121 | | %REC | 1 | 1/29/01 9:33:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 97.7 | 64-125 | | %REC | 1 | 1/29/01 9:33:00 PM |
| Surr: Toluene-d8 | 91.8 | 67-124 | | %REC | 1 | 1/29/01 9:33:00 PM |
| Surr: 4-Bromofluorobenzene | 83.0 | 62-119 | | %REC | 1 | 1/29/01 9:33:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILES BY GC/MS, EPA 5035 MEDIUM-LEVE SW8260B** | | | | | | Analyst: **LN** |
| Dichlorodifluoromethane | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Chloromethane | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Vinyl chloride | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Chloroethane | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Bromomethane | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Trichlorofluoromethane | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Acetone | ND | 1,500 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1-Dichloroethene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Carbon disulfide | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Methylene chloride | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Methyl tert-butyl ether | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| trans-1,2-Dichloroethene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1-Dichloroethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 2-Butanone | ND | 1,500 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 2,2-Dichloropropane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| cis-1,2-Dichloroethene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Chloroform | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Bromochloromethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1,1-Trichloroethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1-Dichloropropene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Carbon tetrachloride | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2-Dichloroethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Benzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Trichloroethene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2-Dichloropropane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Bromodichloromethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Dibromomethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 4-Methyl-2-pentanone | ND | 1,500 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| cis-1,3-Dichloropropene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Toluene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| trans-1,3-Dichloropropene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1,2-Trichloroethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2-Dibromoethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 2-Hexanone | ND | 1,500 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,3-Dichloropropane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Tetrachloroethene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Dibromochloromethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Chlorobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06B | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| m,p-Xylene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| o-Xylene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Styrene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Bromoform | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Isopropylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2,3-Trichloropropane | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Bromobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| n-Propylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 2-Chlorotoluene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 4-Chlorotoluene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,3,5-Trimethylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| tert-Butylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2,4-Trimethylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| sec-Butylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 4-Isopropyltoluene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,3-Dichlorobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,4-Dichlorobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| n-Butylbenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2-Dichlorobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2,4-Trichlorobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Hexachlorobutadiene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Naphthalene | ND | 310 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| 1,2,3-Trichlorobenzene | ND | 150 | | µg/Kg-dry | 1 | 1/31/01 6:01:00 PM |
| Surr: Dibromofluoromethane | 84.4 | 66-121 | | %REC | 1 | 1/31/01 6:01:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.2 | 64-125 | | %REC | 1 | 1/31/01 6:01:00 PM |
| Surr: Toluene-d8 | 89.4 | 67-124 | | %REC | 1 | 1/31/01 6:01:00 PM |
| Surr: 4-Bromofluorobenzene | 86.7 | 62-119 | | %REC | 1 | 1/31/01 6:01:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Method Blank

Sample ID **mblk01/29/01** Batch ID: **R6961** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **1/29/01 4:54:00 PM** Prep Date **1/29/01**

Client ID: Run ID: **V-2_010129A** SeqNo: **104972**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 50 | µg/Kg | | | | | | | | | |
| Chloromethane | ND | 50 | µg/Kg | | | | | | | | | |
| Vinyl chloride | ND | 25 | µg/Kg | | | | | | | | | |
| Chloroethane | ND | 50 | µg/Kg | | | | | | | | | |
| Bromomethane | ND | 50 | µg/Kg | | | | | | | | | |
| Trichlorofluoromethane | ND | 50 | µg/Kg | | | | | | | | | |
| Acetone | ND | 250 | µg/Kg | | | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| Carbon disulfide | 33.25 | 50 | µg/Kg | | | | | | | | | J |
| Methylene chloride | ND | 50 | µg/Kg | | | | | | | | | |
| Methyl tert-butyl ether | ND | 25 | µg/Kg | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| 1,1-Dichloroethane | ND | 25 | µg/Kg | | | | | | | | | |
| 2-Butanone | ND | 250 | µg/Kg | | | | | | | | | |
| 2,2-Dichloropropane | ND | 25 | µg/Kg | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| Chloroform | ND | 25 | µg/Kg | | | | | | | | | |
| Bromochloromethane | ND | 25 | µg/Kg | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 25 | µg/Kg | | | | | | | | | |
| 1,1-Dichloropropene | ND | 25 | µg/Kg | | | | | | | | | |
| Carbon tetrachloride | ND | 25 | µg/Kg | | | | | | | | | |
| 1,2-Dichloroethane | ND | 25 | µg/Kg | | | | | | | | | |
| Benzene | ND | 25 | µg/Kg | | | | | | | | | |
| Trichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| 1,2-Dichloropropane | ND | 25 | µg/Kg | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

| | Results | RL | units |
|---|---|---|---|
| Bromodichloromethane | ND | 25 | µg/Kg |
| Dibromomethane | ND | 25 | µg/Kg |
| 4-Methyl-2-pentanone | ND | 250 | µg/Kg |
| cis-1,3-Dichloropropene | ND | 25 | µg/Kg |
| Toluene | ND | 25 | µg/Kg |
| trans-1,3-Dichloropropene | ND | 25 | µg/Kg |
| 1,1,2-Trichloroethane | ND | 25 | µg/Kg |
| 1,2-Dibromoethane | ND | 25 | µg/Kg |
| 2-Hexanone | ND | 250 | µg/Kg |
| 1,3-Dichloropropane | ND | 25 | µg/Kg |
| Tetrachloroethene | ND | 25 | µg/Kg |
| Dibromochloromethane | ND | 25 | µg/Kg |
| Chlorobenzene | ND | 25 | µg/Kg |
| 1,1,1,2-Tetrachloroethane | ND | 25 | µg/Kg |
| Ethylbenzene | ND | 25 | µg/Kg |
| m,p-Xylene | ND | 25 | µg/Kg |
| o-Xylene | ND | 25 | µg/Kg |
| Styrene | ND | 25 | µg/Kg |
| Bromoform | ND | 25 | µg/Kg |
| Isopropylbenzene | ND | 25 | µg/Kg |
| 1,1,2,2-Tetrachloroethane | ND | 25 | µg/Kg |
| 1,2,3-Trichloropropane | ND | 25 | µg/Kg |
| Bromobenzene | ND | 25 | µg/Kg |
| n-Propylbenzene | ND | 25 | µg/Kg |
| 2-Chlorotoluene | ND | 25 | µg/Kg |
| 4-Chlorotoluene | ND | 25 | µg/Kg |
| 1,3,5-Trimethylbenzene | ND | 25 | µg/Kg |
| tert-Butylbenzene | ND | 25 | µg/Kg |
| 1,2,4-Trimethylbenzene | ND | 25 | µg/Kg |
| sec-Butylbenzene | ND | 25 | µg/Kg |
| 4-Isopropyltoluene | ND | 25 | µg/Kg |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

| | Results | RL | units | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| 1,4-Dichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| n-Butylbenzene | ND | 25 | µg/Kg | | | | | | |
| 1,2-Dichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 50 | µg/Kg | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| Hexachlorobutadiene | ND | 25 | µg/Kg | | | | | | |
| Naphthalene | ND | 50 | µg/Kg | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| Surr: Dibromofluoromethane | 2460 | 25 | µg/Kg | 2500 | 0 | 98.4 | 66 | 121 | 0 |
| Surr: 1,2-Dichloroethane-d4 | 2989 | 25 | µg/Kg | 2500 | 0 | 120 | 64 | 125 | 0 |
| Surr: Toluene-d8 | 2645 | 25 | µg/Kg | 2500 | 0 | 106 | 67 | 124 | 0 |
| Surr: 4-Bromofluorobenzene | 2474 | 25 | µg/Kg | 2500 | 0 | 99 | 62 | 119 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

Sample ID **mblk01/31/01** Batch ID: **R7002** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **1/31/01 4:51:00 PM** Prep Date **1/31/01**

Client ID: Run ID: **V-2_010131A** SeqNo: **105614**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 50 | µg/Kg | | | | | | | | | |
| Chloromethane | ND | 50 | µg/Kg | | | | | | | | | |
| Vinyl chloride | ND | 25 | µg/Kg | | | | | | | | | |
| Chloroethane | ND | 50 | µg/Kg | | | | | | | | | |
| Bromomethane | ND | 50 | µg/Kg | | | | | | | | | |
| Trichlorofluoromethane | ND | 50 | µg/Kg | | | | | | | | | |
| Acetone | ND | 250 | µg/Kg | | | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| Carbon disulfide | ND | 50 | µg/Kg | | | | | | | | | |
| Methylene chloride | ND | 50 | µg/Kg | | | | | | | | | |
| Methyl tert-butyl ether | ND | 25 | µg/Kg | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| 1,1-Dichloroethane | ND | 25 | µg/Kg | | | | | | | | | |
| 2-Butanone | ND | 250 | µg/Kg | | | | | | | | | |
| 2,2-Dichloropropane | ND | 25 | µg/Kg | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| Chloroform | ND | 25 | µg/Kg | | | | | | | | | |
| Bromochloromethane | ND | 25 | µg/Kg | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 25 | µg/Kg | | | | | | | | | |
| 1,1-Dichloropropene | ND | 25 | µg/Kg | | | | | | | | | |
| Carbon tetrachloride | ND | 25 | µg/Kg | | | | | | | | | |
| 1,2-Dichloroethane | ND | 25 | µg/Kg | | | | | | | | | |
| Benzene | ND | 25 | µg/Kg | | | | | | | | | |
| Trichloroethene | ND | 25 | µg/Kg | | | | | | | | | |
| 1,2-Dichloropropane | ND | 25 | µg/Kg | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

| | Result | RL | unit |
|---|---|---|---|
| Bromodichloromethane | ND | 25 | µg/Kg |
| Dibromomethane | ND | 25 | µg/Kg |
| 4-Methyl-2-pentanone | ND | 250 | µg/Kg |
| cis-1,3-Dichloropropene | ND | 25 | µg/Kg |
| Toluene | ND | 25 | µg/Kg |
| trans-1,3-Dichloropropene | ND | 25 | µg/Kg |
| 1,1,2-Trichloroethane | ND | 25 | µg/Kg |
| 1,2-Dibromoethane | ND | 25 | µg/Kg |
| 2-Hexanone | ND | 250 | µg/Kg |
| 1,3-Dichloropropane | ND | 25 | µg/Kg |
| Tetrachloroethene | ND | 25 | µg/Kg |
| Dibromochloromethane | ND | 25 | µg/Kg |
| Chlorobenzene | ND | 25 | µg/Kg |
| 1,1,1,2-Tetrachloroethane | ND | 25 | µg/Kg |
| Ethylbenzene | ND | 25 | µg/Kg |
| m,p-Xylene | ND | 25 | µg/Kg |
| o-Xylene | ND | 25 | µg/Kg |
| Styrene | ND | 25 | µg/Kg |
| Bromoform | ND | 25 | µg/Kg |
| Isopropylbenzene | ND | 25 | µg/Kg |
| 1,1,2,2-Tetrachloroethane | ND | 25 | µg/Kg |
| 1,2,3-Trichloropropane | ND | 25 | µg/Kg |
| Bromobenzene | ND | 25 | µg/Kg |
| n-Propylbenzene | ND | 25 | µg/Kg |
| 2-Chlorotoluene | ND | 25 | µg/Kg |
| 4-Chlorotoluene | ND | 25 | µg/Kg |
| 1,3,5-Trimethylbenzene | ND | 25 | µg/Kg |
| tert-Butylbenzene | ND | 25 | µg/Kg |
| 1,2,4-Trimethylbenzene | ND | 25 | µg/Kg |
| sec-Butylbenzene | ND | 25 | µg/Kg |
| 4-Isopropyltoluene | ND | 25 | µg/Kg |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

| | Results | RL | units | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| 1,4-Dichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| n-Butylbenzene | ND | 25 | µg/Kg | | | | | | |
| 1,2-Dichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 50 | µg/Kg | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| Hexachlorobutadiene | ND | 25 | µg/Kg | | | | | | |
| Naphthalene | ND | 50 | µg/Kg | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 25 | µg/Kg | | | | | | |
| Surr: Dibromofluoromethane | 2447 | 25 | µg/Kg | 2500 | 0 | 97.9 | 66 | 121 | 0 |
| Surr: 1,2-Dichloroethane-d4 | 2712 | 25 | µg/Kg | 2500 | 0 | 108 | 64 | 125 | 0 |
| Surr: Toluene-d8 | 2621 | 25 | µg/Kg | 2500 | 0 | 105 | 67 | 124 | 0 |
| Surr: 4-Bromofluorobenzene | 2638 | 25 | µg/Kg | 2500 | 0 | 106 | 62 | 119 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID **0101211-01Ams** Batch ID: **R6961** Test Code: **SW8260B** Units: **µg/Kg-dry** Analysis Date **1/29/01 5:30:00 PM** Prep Date **1/24/01**
Client ID: Run ID: **V-2_010129A** SeqNo: **104973**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 900 | 44 | µg/Kg-dry | 889.4 | 0 | 101 | 61 | 140 | 0 | | | |
| Benzene | 996.5 | 44 | µg/Kg-dry | 889.4 | 0 | 112 | 71 | 123 | 0 | | | |
| Trichloroethene | 942.3 | 44 | µg/Kg-dry | 889.4 | 0 | 106 | 72 | 124 | 0 | | | |
| Toluene | 909.4 | 44 | µg/Kg-dry | 889.4 | 0 | 102 | 71 | 126 | 0 | | | |
| Chlorobenzene | 935.6 | 44 | µg/Kg-dry | 889.4 | 0 | 105 | 73 | 126 | 0 | | | |
| Surr: Dibromofluoromethane | 4273 | 44 | µg/Kg-dry | 4447 | 0 | 96.1 | 66 | 121 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 4678 | 44 | µg/Kg-dry | 4447 | 0 | 105 | 64 | 125 | 0 | | | |
| Surr: Toluene-d8 | 4438 | 44 | µg/Kg-dry | 4447 | 0 | 99.8 | 67 | 124 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 4249 | 44 | µg/Kg-dry | 4447 | 0 | 95.6 | 62 | 119 | 0 | | | |

Sample ID **0101211-01Amsd** Batch ID: **R6961** Test Code: **SW8260B** Units: **µg/Kg-dry** Analysis Date **1/29/01 6:05:00 PM** Prep Date **1/24/01**
Client ID: Run ID: **V-2_010129A** SeqNo: **104974**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 910.7 | 44 | µg/Kg-dry | 889.4 | 0 | 102 | 61 | 140 | 900 | 1.18 | 25 | |
| Benzene | 928.1 | 44 | µg/Kg-dry | 889.4 | 0 | 104 | 71 | 123 | 996.5 | 7.12 | 25 | |
| Trichloroethene | 988.1 | 44 | µg/Kg-dry | 889.4 | 0 | 111 | 72 | 124 | 942.3 | 4.75 | 25 | |
| Toluene | 947.2 | 44 | µg/Kg-dry | 889.4 | 0 | 106 | 71 | 126 | 909.4 | 4.07 | 25 | |
| Chlorobenzene | 933.4 | 44 | µg/Kg-dry | 889.4 | 0 | 105 | 73 | 126 | 935.6 | 0.238 | 25 | |
| Surr: Dibromofluoromethane | 4322 | 44 | µg/Kg-dry | 4447 | 0 | 97.2 | 66 | 121 | 0 | 0 | 0 | |
| Surr: 1,2-Dichloroethane-d4 | 4735 | 44 | µg/Kg-dry | 4447 | 0 | 106 | 64 | 125 | 0 | 0 | 0 | |
| Surr: Toluene-d8 | 4596 | 44 | µg/Kg-dry | 4447 | 0 | 103 | 67 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 4306 | 44 | µg/Kg-dry | 4447 | 0 | 96.8 | 62 | 119 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID **0101218-01Bms** Batch ID: **R7002** Test Code: **SW8260B** Units: **µg/Kg-dry** Analysis Date **1/31/01 6:36:00 PM** Prep Date **1/23/01**
Client ID: **00291-H5** Run ID: **V-2_010131A** SeqNo: **105617**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1035 | 52 | µg/Kg-dry | 1044 | 0 | 99.1 | 61 | 140 | 0 | | | |
| Benzene | 1065 | 52 | µg/Kg-dry | 1044 | 0 | 102 | 71 | 123 | 0 | | | |
| Trichloroethene | 1065 | 52 | µg/Kg-dry | 1044 | 0 | 102 | 72 | 124 | 0 | | | |
| Toluene | 1049 | 52 | µg/Kg-dry | 1044 | 0 | 100 | 71 | 126 | 0 | | | |
| Chlorobenzene | 1100 | 52 | µg/Kg-dry | 1044 | 0 | 105 | 73 | 126 | 0 | | | |
| Surr: Dibromofluoromethane | 4672 | 52 | µg/Kg-dry | 5222 | 0 | 89.5 | 66 | 121 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 4902 | 52 | µg/Kg-dry | 5222 | 0 | 93.9 | 64 | 125 | 0 | | | |
| Surr: Toluene-d8 | 4846 | 52 | µg/Kg-dry | 5222 | 0 | 92.8 | 67 | 124 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 4906 | 52 | µg/Kg-dry | 5222 | 0 | 94 | 62 | 119 | 0 | | | |

Sample ID **0101218-01Bmsd** Batch ID: **R7002** Test Code: **SW8260B** Units: **µg/Kg-dry** Analysis Date **1/31/01 7:11:00 PM** Prep Date **1/23/01**
Client ID: **00291-H5** Run ID: **V-2_010131A** SeqNo: **105618**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1011 | 52 | µg/Kg-dry | 1044 | 0 | 96.8 | 61 | 140 | 1035 | 2.35 | 25 | |
| Benzene | 1049 | 52 | µg/Kg-dry | 1044 | 0 | 100 | 71 | 123 | 1065 | 1.58 | 25 | |
| Trichloroethene | 1056 | 52 | µg/Kg-dry | 1044 | 0 | 101 | 72 | 124 | 1065 | 0.837 | 25 | |
| Toluene | 1054 | 52 | µg/Kg-dry | 1044 | 0 | 101 | 71 | 126 | 1049 | 0.497 | 25 | |
| Chlorobenzene | 1091 | 52 | µg/Kg-dry | 1044 | 0 | 104 | 73 | 126 | 1100 | 0.858 | 25 | |
| Surr: Dibromofluoromethane | 4635 | 52 | µg/Kg-dry | 5222 | 0 | 88.8 | 66 | 121 | 0 | 0 | 0 | |
| Surr: 1,2-Dichloroethane-d4 | 5011 | 52 | µg/Kg-dry | 5222 | 0 | 96 | 64 | 125 | 0 | 0 | 0 | |
| Surr: Toluene-d8 | 5054 | 52 | µg/Kg-dry | 5222 | 0 | 96.8 | 67 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 4919 | 52 | µg/Kg-dry | 5222 | 0 | 94.2 | 62 | 119 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Laboratory Control Spike

Sample ID **lcs01/29/01** Batch ID: **R6961** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **1/29/01 11:35:00 AM** Prep Date **1/29/01**
Client ID: Run ID: **V-2_010129A** SeqNo: **104960**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 471.5 | 25 | µg/Kg | 500 | 0 | 94.3 | 66 | 138 | 0 | | | |
| Benzene | 516.5 | 25 | µg/Kg | 500 | 0 | 103 | 76 | 118 | 0 | | | |
| Trichloroethene | 521.5 | 25 | µg/Kg | 500 | 0 | 104 | 72 | 123 | 0 | | | |
| Toluene | 517 | 25 | µg/Kg | 500 | 0 | 103 | 74 | 119 | 0 | | | |
| Chlorobenzene | 525.5 | 25 | µg/Kg | 500 | 0 | 105 | 76 | 125 | 0 | | | |
| Surr: Dibromofluoromethane | 2604 | 25 | µg/Kg | 2500 | 0 | 104 | 66 | 121 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 2854 | 25 | µg/Kg | 2500 | 0 | 114 | 64 | 125 | 0 | | | |
| Surr: Toluene-d8 | 2711 | 25 | µg/Kg | 2500 | 0 | 108 | 67 | 124 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 2650 | 25 | µg/Kg | 2500 | 0 | 106 | 62 | 119 | 0 | | | |

Sample ID **lcs01/31/01** Batch ID: **R7002** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **1/31/01 3:06:00 PM** Prep Date **1/31/01**
Client ID: Run ID: **V-2_010131A** SeqNo: **105613**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 428.5 | 25 | µg/Kg | 500 | 0 | 85.7 | 66 | 138 | 0 | | | |
| Benzene | 451.8 | 25 | µg/Kg | 500 | 0 | 90.4 | 76 | 118 | 0 | | | |
| Trichloroethene | 446.5 | 25 | µg/Kg | 500 | 0 | 89.3 | 72 | 123 | 0 | | | |
| Toluene | 448.5 | 25 | µg/Kg | 500 | 0 | 89.7 | 74 | 119 | 0 | | | |
| Chlorobenzene | 489 | 25 | µg/Kg | 500 | 0 | 97.8 | 76 | 125 | 0 | | | |
| Surr: Dibromofluoromethane | 2325 | 25 | µg/Kg | 2500 | 0 | 93 | 66 | 121 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 2566 | 25 | µg/Kg | 2500 | 0 | 103 | 64 | 125 | 0 | | | |
| Surr: Toluene-d8 | 2271 | 25 | µg/Kg | 2500 | 0 | 90.8 | 67 | 124 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 2487 | 25 | µg/Kg | 2500 | 0 | 99.5 | 62 | 119 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01A | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE PETROLEUM HYDROCARBONS** | | **MAVPH** | | | | Analyst: **SK** |
| C5-C8 Aliphatic Hydrocarbons | ND | 5.2 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| C9-C12 Aliphatic Hydrocarbons | ND | 1.3 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| C9-C10 Aromatic Hydrocarbons | ND | 1.3 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| Methyl tert-butyl ether | ND | 0.10 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| Benzene | ND | 0.10 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| Toluene | ND | 0.10 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| Ethylbenzene | ND | 0.10 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| m,p-Xylene | ND | 0.10 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| o-Xylene | ND | 0.10 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| Naphthalene | ND | 0.26 | | mg/Kg-dry | 1 | 1/30/01 1:51:00 PM |
| Surr: Dibromofluoromethane | 91.6 | 70-130 | | %REC | 1 | 1/30/01 1:51:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 99.1 | 70-130 | | %REC | 1 | 1/30/01 1:51:00 PM |
| Surr: Toluene-d8 | 92.5 | 70-130 | | %REC | 1 | 1/30/01 1:51:00 PM |
| Surr: 4-Bromofluorobenzene | 92.2 | 70-130 | | %REC | 1 | 1/30/01 1:51:00 PM |
| Surr: 2,5-Dibromotoluene | 104 | 70-130 | | %REC | 1 | 1/30/01 1:51:00 PM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ✓ Yes ___ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02A | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE PETROLEUM HYDROCARBONS** | | **MAVPH** | | | | Analyst: **SK** |
| C5-C8 Aliphatic Hydrocarbons | ND | 4.4 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| C9-C12 Aliphatic Hydrocarbons | ND | 1.1 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| C9-C10 Aromatic Hydrocarbons | ND | 1.1 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| Methyl tert-butyl ether | ND | 0.087 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| Benzene | ND | 0.087 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| Toluene | ND | 0.087 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| Ethylbenzene | ND | 0.087 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| m,p-Xylene | ND | 0.087 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| o-Xylene | ND | 0.087 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| Naphthalene | ND | 0.22 | | mg/Kg-dry | 1 | 1/30/01 2:26:00 PM |
| Surr: Dibromofluoromethane | 91.0 | 70-130 | | %REC | 1 | 1/30/01 2:26:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.0 | 70-130 | | %REC | 1 | 1/30/01 2:26:00 PM |
| Surr: Toluene-d8 | 92.2 | 70-130 | | %REC | 1 | 1/30/01 2:26:00 PM |
| Surr: 4-Bromofluorobenzene | 93.8 | 70-130 | | %REC | 1 | 1/30/01 2:26:00 PM |
| Surr: 2,5-Dibromotoluene | 98.2 | 70-130 | | %REC | 1 | 1/30/01 2:26:00 PM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ✓ Yes ___ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: [signature] DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03A | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE PETROLEUM HYDROCARBONS** | | **MAVPH** | | | | Analyst: **SK** |
| C5-C8 Aliphatic Hydrocarbons | ND | 19 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| C9-C12 Aliphatic Hydrocarbons | ND | 4.9 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| C9-C10 Aromatic Hydrocarbons | ND | 4.9 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| Methyl tert-butyl ether | ND | 0.39 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| Benzene | ND | 0.39 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| Toluene | ND | 0.39 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| Ethylbenzene | ND | 0.39 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| m,p-Xylene | ND | 0.39 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| o-Xylene | ND | 0.39 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| Naphthalene | ND | 0.97 | | mg/Kg-dry | 1 | 1/30/01 3:36:00 PM |
| Surr: Dibromofluoromethane | 88.9 | 70-130 | | %REC | 1 | 1/30/01 3:36:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 85.6 | 70-130 | | %REC | 1 | 1/30/01 3:36:00 PM |
| Surr: Toluene-d8 | 86.5 | 70-130 | | %REC | 1 | 1/30/01 3:36:00 PM |
| Surr: 4-Bromofluorobenzene | 83.0 | 70-130 | | %REC | 1 | 1/30/01 3:36:00 PM |
| Surr: 2,5-Dibromotoluene | 79.3 | 70-130 | | %REC | 1 | 1/30/01 3:36:00 PM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ✓ Yes ___ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04A | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE PETROLEUM HYDROCARBONS** | | **MAVPH** | | | | Analyst: **SK** |
| C5-C8 Aliphatic Hydrocarbons | ND | 17 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| C9-C12 Aliphatic Hydrocarbons | ND | 4.4 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| C9-C10 Aromatic Hydrocarbons | ND | 4.4 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| Methyl tert-butyl ether | ND | 0.35 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| Benzene | ND | 0.35 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| Toluene | ND | 0.35 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| Ethylbenzene | ND | 0.35 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| m,p-Xylene | ND | 0.35 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| o-Xylene | ND | 0.35 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| Naphthalene | ND | 0.87 | | mg/Kg-dry | 1 | 1/30/01 4:11:00 PM |
| Surr: Dibromofluoromethane | 86.4 | 70-130 | | %REC | 1 | 1/30/01 4:11:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 84.0 | 70-130 | | %REC | 1 | 1/30/01 4:11:00 PM |
| Surr: Toluene-d8 | 86.0 | 70-130 | | %REC | 1 | 1/30/01 4:11:00 PM |
| Surr: 4-Bromofluorobenzene | 80.0 | 70-130 | | %REC | 1 | 1/30/01 4:11:00 PM |
| Surr: 2,5-Dibromotoluene | 72.4 | 70-130 | | %REC | 1 | 1/30/01 4:11:00 PM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ✓ Yes ___ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05A | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE PETROLEUM HYDROCARBONS** | | **MAVPH** | | | | Analyst: **SK** |
| C5-C8 Aliphatic Hydrocarbons | ND | 4.8 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| C9-C12 Aliphatic Hydrocarbons | ND | 1.2 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| C9-C10 Aromatic Hydrocarbons | ND | 1.2 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| Methyl tert-butyl ether | ND | 0.097 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| Benzene | ND | 0.097 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| Toluene | ND | 0.097 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| Ethylbenzene | ND | 0.097 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| m,p-Xylene | ND | 0.097 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| o-Xylene | ND | 0.097 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| Naphthalene | ND | 0.24 | | mg/Kg-dry | 1 | 1/30/01 4:46:00 PM |
| Surr: Dibromofluoromethane | 87.3 | 70-130 | | %REC | 1 | 1/30/01 4:46:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 83.7 | 70-130 | | %REC | 1 | 1/30/01 4:46:00 PM |
| Surr: Toluene-d8 | 86.4 | 70-130 | | %REC | 1 | 1/30/01 4:46:00 PM |
| Surr: 4-Bromofluorobenzene | 84.9 | 70-130 | | %REC | 1 | 1/30/01 4:46:00 PM |
| Surr: 2,5-Dibromotoluene | 83.3 | 70-130 | | %REC | 1 | 1/30/01 4:46:00 PM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ✓ Yes ___ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06A | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE PETROLEUM HYDROCARBONS** | | **MAVPH** | | | | Analyst: **SK** |
| C5-C8 Aliphatic Hydrocarbons | ND | 15 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| C9-C12 Aliphatic Hydrocarbons | ND | 3.9 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| C9-C10 Aromatic Hydrocarbons | ND | 3.9 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| Methyl tert-butyl ether | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| Benzene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| Toluene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| Ethylbenzene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| m,p-Xylene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| o-Xylene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| Naphthalene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 5:21:00 PM |
| Surr: Dibromofluoromethane | 93.5 | 70-130 | | %REC | 1 | 1/30/01 5:21:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 90.8 | 70-130 | | %REC | 1 | 1/30/01 5:21:00 PM |
| Surr: Toluene-d8 | 91.1 | 70-130 | | %REC | 1 | 1/30/01 5:21:00 PM |
| Surr: 4-Bromofluorobenzene | 86.2 | 70-130 | | %REC | 1 | 1/30/01 5:21:00 PM |
| Surr: 2,5-Dibromotoluene | 80.5 | 70-130 | | %REC | 1 | 1/30/01 5:21:00 PM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ✓ Yes ___ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

Sample ID **mblk01/30/01** Batch ID: **R6981** Test Code: **MAVPH** Units: **mg/Kg** Analysis Date **1/30/01 1:16:00 PM** Prep Date **1/30/01**

Client ID: Run ID: **V-2_010130A** SeqNo: **105269**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C5-C8 Aliphatic Hydrocarbons | ND | 2.5 | mg/Kg | | | | | | | | | |
| C9-C12 Aliphatic Hydrocarbons | ND | 0.62 | mg/Kg | | | | | | | | | |
| C9-C10 Aromatic Hydrocarbons | ND | 0.62 | mg/Kg | | | | | | | | | |
| Methyl tert-butyl ether | ND | 0.050 | mg/Kg | | | | | | | | | |
| Benzene | ND | 0.050 | mg/Kg | | | | | | | | | |
| Toluene | ND | 0.050 | mg/Kg | | | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/Kg | | | | | | | | | |
| m,p-Xylene | ND | 0.050 | mg/Kg | | | | | | | | | |
| o-Xylene | ND | 0.050 | mg/Kg | | | | | | | | | |
| Naphthalene | ND | 0.12 | mg/Kg | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.608 | 0.0012 | mg/Kg | 2.5 | 0 | 104 | 70 | 130 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 2.741 | 0.0012 | mg/Kg | 2.5 | 0 | 110 | 70 | 130 | 0 | | | |
| Surr: Toluene-d8 | 2.656 | 0.0012 | mg/Kg | 2.5 | 0 | 106 | 70 | 130 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 2.577 | 0.0012 | mg/Kg | 2.5 | 0 | 103 | 70 | 130 | 0 | | | |
| Surr: 2,5-Dibromotoluene | 2.43 | 0.0012 | mg/Kg | 2.5 | 0 | 97.2 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID **0101218-04Ams** Batch ID: **R6981** Test Code: **MAVPH** Units: **mg/Kg-dry** Analysis Date **1/30/01 8:13:00 PM** Prep Date **1/23/01**

Client ID: **00291-A9** Run ID: **V-2_010130A** SeqNo: **105281**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 3.647 | 0.35 | mg/Kg-dry | 3.49 | 0 | 104 | 70 | 130 | 0 | | | |
| Benzene | 3.498 | 0.35 | mg/Kg-dry | 3.49 | 0 | 100 | 70 | 130 | 0 | | | |
| Toluene | 3.793 | 0.35 | mg/Kg-dry | 3.49 | 0 | 109 | 70 | 130 | 0 | | | |
| Ethylbenzene | 3.535 | 0.35 | mg/Kg-dry | 3.49 | 0 | 101 | 70 | 130 | 0 | | | |
| m,p-Xylene | 7.094 | 0.35 | mg/Kg-dry | 6.979 | 0 | 102 | 70 | 130 | 0 | | | |
| o-Xylene | 3.538 | 0.35 | mg/Kg-dry | 3.49 | 0 | 101 | 70 | 130 | 0 | | | |
| Naphthalene | 5.533 | 0.87 | mg/Kg-dry | 3.49 | 0 | 159 | 70 | 130 | 0 | | | S |
| Surr: Dibromofluoromethane | 15.6 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 89.4 | 70 | 130 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 14.57 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 83.5 | 70 | 130 | 0 | | | |
| Surr: Toluene-d8 | 14.97 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 85.8 | 70 | 130 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 14.03 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 80.4 | 70 | 130 | 0 | | | |
| Surr: 2,5-Dibromotoluene | 16.34 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 93.6 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike Duplicate

Sample ID **0101218-04Amsd** Batch ID: **R6981** Test Code: **MAVPH** Units: **mg/Kg-dry** Analysis Date **1/30/01 8:47:00 PM** Prep Date **1/23/01**

Client ID: **00291-A9** Run ID: **V-2_010130A** SeqNo: **105282**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 3.863 | 0.35 | mg/Kg-dry | 3.49 | 0 | 111 | 70 | 130 | 3.647 | 5.76 | 25 | |
| Benzene | 3.54 | 0.35 | mg/Kg-dry | 3.49 | 0 | 101 | 70 | 130 | 3.498 | 1.19 | 25 | |
| Toluene | 3.764 | 0.35 | mg/Kg-dry | 3.49 | 0 | 108 | 70 | 130 | 3.793 | 0.785 | 25 | |
| Ethylbenzene | 3.535 | 0.35 | mg/Kg-dry | 3.49 | 0 | 101 | 70 | 130 | 3.535 | 0 | 25 | |
| m,p-Xylene | 7.044 | 0.35 | mg/Kg-dry | 6.979 | 0 | 101 | 70 | 130 | 7.094 | 0.716 | 25 | |
| o-Xylene | 3.514 | 0.35 | mg/Kg-dry | 3.49 | 0 | 101 | 70 | 130 | 3.538 | 0.693 | 25 | |
| Naphthalene | 4.011 | 0.87 | mg/Kg-dry | 3.49 | 0 | 115 | 70 | 130 | 5.533 | 31.9 | 25 | R |
| Surr: Dibromofluoromethane | 15.84 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 90.8 | 70 | 130 | 0 | 0 | 0 | |
| Surr: 1,2-Dichloroethane-d4 | 14.94 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 85.6 | 70 | 130 | 0 | 0 | 0 | |
| Surr: Toluene-d8 | 14.89 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 85.3 | 70 | 130 | 0 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 14.4 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 82.5 | 70 | 130 | 0 | 0 | 0 | |
| Surr: 2,5-Dibromotoluene | 14.69 | 0.0087 | mg/Kg-dry | 17.45 | 0 | 84.2 | 70 | 130 | 0 | 0 | 0 | |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Sample Duplicate

Sample ID **0101218-02Adup** Batch ID: **R6981** Test Code: **MAVPH** Units: **mg/Kg-dry** Analysis Date **1/30/01 3:01:00 PM** Prep Date **1/23/01**

Client ID: **00291-H2** Run ID: **V-2_010130A** SeqNo: **105272**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C5-C8 Aliphatic Hydrocarbons | ND | 4.4 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| C9-C12 Aliphatic Hydrocarbons | ND | 1.1 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| C9-C10 Aromatic Hydrocarbons | ND | 1.1 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Methyl tert-butyl ether | ND | 0.087 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Benzene | ND | 0.087 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Toluene | ND | 0.087 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Ethylbenzene | ND | 0.087 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| m,p-Xylene | ND | 0.087 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| o-Xylene | ND | 0.087 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Naphthalene | ND | 0.22 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Surr: Dibromofluoromethane | 4.03 | 0.0022 | mg/Kg-dry | 4.373 | 0 | 92.2 | 70 | 130 | 0 | 0 | 0 | |
| Surr: 1,2-Dichloroethane-d4 | 3.917 | 0.0022 | mg/Kg-dry | 4.373 | 0 | 89.6 | 70 | 130 | 0 | 0 | 0 | |
| Surr: Toluene-d8 | 4.039 | 0.0022 | mg/Kg-dry | 4.373 | 0 | 92.4 | 70 | 130 | 0 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 3.994 | 0.0022 | mg/Kg-dry | 4.373 | 0 | 91.3 | 70 | 130 | 0 | 0 | 0 | |
| Surr: 2,5-Dibromotoluene | 4.292 | 0.0022 | mg/Kg-dry | 4.373 | 0 | 98.2 | 70 | 130 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **lcs01/30/01** Batch ID: **R6981** Test Code: **MAVPH** Units: **mg/Kg** Analysis Date **1/30/01 12:05:00 PM** Prep Date **1/30/01**

Client ID: Run ID: **V-2_010130A** SeqNo: **105268**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.4955 | 0.050 | mg/Kg | 0.5 | 0 | 99.1 | 70 | 130 | 0 | | | |
| Benzene | 0.5582 | 0.050 | mg/Kg | 0.5 | 0 | 112 | 70 | 130 | 0 | | | |
| Toluene | 0.5605 | 0.050 | mg/Kg | 0.5 | 0 | 112 | 70 | 130 | 0 | | | |
| Ethylbenzene | 0.5118 | 0.050 | mg/Kg | 0.5 | 0 | 102 | 70 | 130 | 0 | | | |
| m,p-Xylene | 1.02 | 0.050 | mg/Kg | 1 | 0 | 102 | 70 | 130 | 0 | | | |
| o-Xylene | 0.502 | 0.050 | mg/Kg | 0.5 | 0 | 100 | 70 | 130 | 0 | | | |
| Naphthalene | 0.5185 | 0.12 | mg/Kg | 0.5 | 0 | 104 | 70 | 130 | 0 | | | |
| Surr: Dibromofluoromethane | 2.688 | 0.0012 | mg/Kg | 2.5 | 0 | 108 | 70 | 130 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 2.635 | 0.0012 | mg/Kg | 2.5 | 0 | 105 | 70 | 130 | 0 | | | |
| Surr: Toluene-d8 | 2.714 | 0.0012 | mg/Kg | 2.5 | 0 | 109 | 70 | 130 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 2.633 | 0.0012 | mg/Kg | 2.5 | 0 | 105 | 70 | 130 | 0 | | | |
| Surr: 2,5-Dibromotoluene | 2.29 | 0.0012 | mg/Kg | 2.5 | 0 | 91.6 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS** | | **SW8270C** | | | | Analyst: **KD** |
| Phenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Bis(2-chloroethyl)ether | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2-Chlorophenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 1,3-Dichlorobenzene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 1,4-Dichlorobenzene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benzyl alcohol | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2-Methylphenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 1,2-Dichlorobenzene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Bis(2-chloroisopropyl)ether | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Methylphenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| N-Nitrosodi-n-propylamine | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Hexachloroethane | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Nitrobenzene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Isophorone | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,4-Dimethylphenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benzoic acid | 840 | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2-Nitrophenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Bis(2-chloroethoxy)methane | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,4-Dichlorophenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 1,2,4-Trichlorobenzene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Naphthalene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Chloroaniline | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Hexachlorobutadiene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Chloro-3-methylphenol | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2-Methylnaphthalene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Hexachlorocyclopentadiene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,4,6-Trichlorophenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,4,5-Trichlorophenol | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2-Chloronaphthalene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2-Nitroaniline | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Dimethyl phthalate | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,6-Dinitrotoluene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Acenaphthylene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 3-Nitroaniline | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Nitrophenol | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,4-Dinitrophenol | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Acenaphthene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 2,4-Dinitrotoluene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Dibenzofuran | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Chlorophenyl phenyl ether | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Fluorene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Nitroaniline | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4,6-Dinitro-2-methylphenol | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| N-Nitrosodiphenylamine | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 4-Bromophenyl phenyl ether | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Hexachlorobenzene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Pentachlorophenol | ND | 630 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Phenanthrene | 470 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Anthracene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Carbazole | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Di-n-butyl phthalate | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Fluoranthene | 1,400 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Pyrene | 1,600 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Butyl benzyl phthalate | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Bis(2-ethylhexyl)phthalate | 9,500 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| 3,3´-Dichlorobenzidine | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benz(a)anthracene | 1,100 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Chrysene | 1,200 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Di-n-octyl phthalate | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benzo(b)fluoranthene | 1,500 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benzo(k)fluoranthene | 540 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benzo(a)pyrene | 1,300 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Dibenz(a,h)anthracene | ND | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Indeno(1,2,3-cd)pyrene | 1,300 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Benzo(g,h,i)perylene | 1,300 | 310 | | µg/Kg-dry | 1 | 1/29/01 10:28:00 PM |
| Surr: 2-Fluorophenol | 80.1 | 28-93 | | %REC | 1 | 1/29/01 10:28:00 PM |
| Surr: Phenol-d5 | 77.9 | 31-97 | | %REC | 1 | 1/29/01 10:28:00 PM |
| Surr: Nitrobenzene-d5 | 74.6 | 32-95 | | %REC | 1 | 1/29/01 10:28:00 PM |
| Surr: 2-Fluorobiphenyl | 79.7 | 38-98 | | %REC | 1 | 1/29/01 10:28:00 PM |
| Surr: 2,4,6-Tribromophenol | 73.7 | 34-114 | | %REC | 1 | 1/29/01 10:28:00 PM |
| Surr: 4-Terphenyl-d14 | 97.3 | 41-108 | | %REC | 1 | 1/29/01 10:28:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS** | | **SW8270C** | | | | Analyst: **KD** |
| Phenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Bis(2-chloroethyl)ether | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2-Chlorophenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 1,3-Dichlorobenzene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 1,4-Dichlorobenzene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benzyl alcohol | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2-Methylphenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 1,2-Dichlorobenzene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Bis(2-chloroisopropyl)ether | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Methylphenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| N-Nitrosodi-n-propylamine | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Hexachloroethane | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Nitrobenzene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Isophorone | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,4-Dimethylphenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benzoic acid | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2-Nitrophenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Bis(2-chloroethoxy)methane | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,4-Dichlorophenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 1,2,4-Trichlorobenzene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Naphthalene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Chloroaniline | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Hexachlorobutadiene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Chloro-3-methylphenol | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2-Methylnaphthalene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Hexachlorocyclopentadiene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,4,6-Trichlorophenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,4,5-Trichlorophenol | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2-Chloronaphthalene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2-Nitroaniline | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Dimethyl phthalate | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,6-Dinitrotoluene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Acenaphthylene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 3-Nitroaniline | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Nitrophenol | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,4-Dinitrophenol | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Acenaphthene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 2,4-Dinitrotoluene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Dibenzofuran | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Chlorophenyl phenyl ether | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Fluorene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Nitroaniline | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4,6-Dinitro-2-methylphenol | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| N-Nitrosodiphenylamine | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 4-Bromophenyl phenyl ether | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Hexachlorobenzene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Pentachlorophenol | ND | 570 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Phenanthrene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Anthracene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Carbazole | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Di-n-butyl phthalate | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Fluoranthene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Pyrene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Butyl benzyl phthalate | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Bis(2-ethylhexyl)phthalate | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| 3,3´-Dichlorobenzidine | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benz(a)anthracene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Chrysene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Di-n-octyl phthalate | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benzo(b)fluoranthene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benzo(k)fluoranthene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benzo(a)pyrene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Dibenz(a,h)anthracene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Indeno(1,2,3-cd)pyrene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Benzo(g,h,i)perylene | ND | 290 | | µg/Kg-dry | 1 | 1/29/01 11:00:00 PM |
| Surr: 2-Fluorophenol | 79.7 | 28-93 | | %REC | 1 | 1/29/01 11:00:00 PM |
| Surr: Phenol-d5 | 77.7 | 31-97 | | %REC | 1 | 1/29/01 11:00:00 PM |
| Surr: Nitrobenzene-d5 | 56.8 | 32-95 | | %REC | 1 | 1/29/01 11:00:00 PM |
| Surr: 2-Fluorobiphenyl | 83.4 | 38-98 | | %REC | 1 | 1/29/01 11:00:00 PM |
| Surr: 2,4,6-Tribromophenol | 70.9 | 34-114 | | %REC | 1 | 1/29/01 11:00:00 PM |
| Surr: 4-Terphenyl-d14 | 89.2 | 41-108 | | %REC | 1 | 1/29/01 11:00:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS** | | **SW8270C** | | | | Analyst: **KD** |
| Phenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Bis(2-chloroethyl)ether | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2-Chlorophenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 1,3-Dichlorobenzene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 1,4-Dichlorobenzene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benzyl alcohol | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2-Methylphenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 1,2-Dichlorobenzene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Bis(2-chloroisopropyl)ether | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Methylphenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| N-Nitrosodi-n-propylamine | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Hexachloroethane | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Nitrobenzene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Isophorone | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,4-Dimethylphenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benzoic acid | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2-Nitrophenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Bis(2-chloroethoxy)methane | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,4-Dichlorophenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 1,2,4-Trichlorobenzene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Naphthalene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Chloroaniline | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Hexachlorobutadiene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Chloro-3-methylphenol | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2-Methylnaphthalene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Hexachlorocyclopentadiene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,4,6-Trichlorophenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,4,5-Trichlorophenol | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2-Chloronaphthalene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2-Nitroaniline | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Dimethyl phthalate | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,6-Dinitrotoluene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Acenaphthylene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 3-Nitroaniline | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Nitrophenol | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,4-Dinitrophenol | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Acenaphthene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 2,4-Dinitrotoluene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Dibenzofuran | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Chlorophenyl phenyl ether | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Fluorene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Nitroaniline | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4,6-Dinitro-2-methylphenol | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| N-Nitrosodiphenylamine | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 4-Bromophenyl phenyl ether | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Hexachlorobenzene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Pentachlorophenol | ND | 1,400 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Phenanthrene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Anthracene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Carbazole | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Di-n-butyl phthalate | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Fluoranthene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Pyrene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Butyl benzyl phthalate | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Bis(2-ethylhexyl)phthalate | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| 3,3´-Dichlorobenzidine | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benz(a)anthracene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Chrysene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Di-n-octyl phthalate | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benzo(b)fluoranthene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benzo(k)fluoranthene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benzo(a)pyrene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Dibenz(a,h)anthracene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Indeno(1,2,3-cd)pyrene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Benzo(g,h,i)perylene | ND | 710 | | µg/Kg-dry | 1 | 1/29/01 11:31:00 PM |
| Surr: 2-Fluorophenol | 73.2 | 28-93 | | %REC | 1 | 1/29/01 11:31:00 PM |
| Surr: Phenol-d5 | 71.8 | 31-97 | | %REC | 1 | 1/29/01 11:31:00 PM |
| Surr: Nitrobenzene-d5 | 56.2 | 32-95 | | %REC | 1 | 1/29/01 11:31:00 PM |
| Surr: 2-Fluorobiphenyl | 74.7 | 38-98 | | %REC | 1 | 1/29/01 11:31:00 PM |
| Surr: 2,4,6-Tribromophenol | 72.5 | 34-114 | | %REC | 1 | 1/29/01 11:31:00 PM |
| Surr: 4-Terphenyl-d14 | 79.7 | 41-108 | | %REC | 1 | 1/29/01 11:31:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

\# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS** | | **SW8270C** | | | | Analyst: **KD** |
| Phenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Bis(2-chloroethyl)ether | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2-Chlorophenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 1,3-Dichlorobenzene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 1,4-Dichlorobenzene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benzyl alcohol | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2-Methylphenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 1,2-Dichlorobenzene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Bis(2-chloroisopropyl)ether | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Methylphenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| N-Nitrosodi-n-propylamine | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Hexachloroethane | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Nitrobenzene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Isophorone | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,4-Dimethylphenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benzoic acid | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2-Nitrophenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Bis(2-chloroethoxy)methane | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,4-Dichlorophenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 1,2,4-Trichlorobenzene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Naphthalene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Chloroaniline | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Hexachlorobutadiene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Chloro-3-methylphenol | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2-Methylnaphthalene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Hexachlorocyclopentadiene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,4,6-Trichlorophenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,4,5-Trichlorophenol | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2-Chloronaphthalene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2-Nitroaniline | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Dimethyl phthalate | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,6-Dinitrotoluene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Acenaphthylene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 3-Nitroaniline | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Nitrophenol | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,4-Dinitrophenol | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Acenaphthene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 2,4-Dinitrotoluene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Dibenzofuran | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Chlorophenyl phenyl ether | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Fluorene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Nitroaniline | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4,6-Dinitro-2-methylphenol | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| N-Nitrosodiphenylamine | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 4-Bromophenyl phenyl ether | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Hexachlorobenzene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Pentachlorophenol | ND | 1,600 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Phenanthrene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Anthracene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Carbazole | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Di-n-butyl phthalate | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Fluoranthene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Pyrene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Butyl benzyl phthalate | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Bis(2-ethylhexyl)phthalate | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| 3,3´-Dichlorobenzidine | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benz(a)anthracene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Chrysene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Di-n-octyl phthalate | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benzo(b)fluoranthene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benzo(k)fluoranthene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benzo(a)pyrene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Dibenz(a,h)anthracene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Indeno(1,2,3-cd)pyrene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Benzo(g,h,i)perylene | ND | 780 | | µg/Kg-dry | 1 | 1/30/01 12:02:00 AM |
| Surr: 2-Fluorophenol | 68.8 | 28-93 | | %REC | 1 | 1/30/01 12:02:00 AM |
| Surr: Phenol-d5 | 66.7 | 31-97 | | %REC | 1 | 1/30/01 12:02:00 AM |
| Surr: Nitrobenzene-d5 | 53.5 | 32-95 | | %REC | 1 | 1/30/01 12:02:00 AM |
| Surr: 2-Fluorobiphenyl | 70.3 | 38-98 | | %REC | 1 | 1/30/01 12:02:00 AM |
| Surr: 2,4,6-Tribromophenol | 69.3 | 34-114 | | %REC | 1 | 1/30/01 12:02:00 AM |
| Surr: 4-Terphenyl-d14 | 75.8 | 41-108 | | %REC | 1 | 1/30/01 12:02:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS** | | **SW8270C** | | | | Analyst: **KD** |
| Phenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Bis(2-chloroethyl)ether | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2-Chlorophenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 1,3-Dichlorobenzene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 1,4-Dichlorobenzene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benzyl alcohol | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2-Methylphenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 1,2-Dichlorobenzene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Bis(2-chloroisopropyl)ether | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Methylphenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| N-Nitrosodi-n-propylamine | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Hexachloroethane | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Nitrobenzene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Isophorone | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,4-Dimethylphenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benzoic acid | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2-Nitrophenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Bis(2-chloroethoxy)methane | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,4-Dichlorophenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 1,2,4-Trichlorobenzene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Naphthalene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Chloroaniline | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Hexachlorobutadiene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Chloro-3-methylphenol | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2-Methylnaphthalene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Hexachlorocyclopentadiene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,4,6-Trichlorophenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,4,5-Trichlorophenol | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2-Chloronaphthalene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2-Nitroaniline | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Dimethyl phthalate | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,6-Dinitrotoluene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Acenaphthylene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 3-Nitroaniline | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Nitrophenol | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,4-Dinitrophenol | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Acenaphthene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 2,4-Dinitrotoluene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Dibenzofuran | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Chlorophenyl phenyl ether | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Fluorene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Nitroaniline | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4,6-Dinitro-2-methylphenol | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| N-Nitrosodiphenylamine | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 4-Bromophenyl phenyl ether | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Hexachlorobenzene | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Pentachlorophenol | ND | 590 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Phenanthrene | 2,100 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Anthracene | 400 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Carbazole | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Di-n-butyl phthalate | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Fluoranthene | 5,400 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Pyrene | 4,900 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Butyl benzyl phthalate | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Bis(2-ethylhexyl)phthalate | 1,400 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| 3,3´-Dichlorobenzidine | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benz(a)anthracene | 2,400 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Chrysene | 2,700 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Di-n-octyl phthalate | ND | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benzo(b)fluoranthene | 3,300 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benzo(k)fluoranthene | 1,300 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benzo(a)pyrene | 2,700 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Dibenz(a,h)anthracene | 490 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Indeno(1,2,3-cd)pyrene | 2,500 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Benzo(g,h,i)perylene | 2,400 | 300 | | µg/Kg-dry | 1 | 1/30/01 1:36:00 AM |
| Surr: 2-Fluorophenol | 73.5 | 28-93 | | %REC | 1 | 1/30/01 1:36:00 AM |
| Surr: Phenol-d5 | 73.3 | 31-97 | | %REC | 1 | 1/30/01 1:36:00 AM |
| Surr: Nitrobenzene-d5 | 59.8 | 32-95 | | %REC | 1 | 1/30/01 1:36:00 AM |
| Surr: 2-Fluorobiphenyl | 77.8 | 38-98 | | %REC | 1 | 1/30/01 1:36:00 AM |
| Surr: 2,4,6-Tribromophenol | 75.6 | 34-114 | | %REC | 1 | 1/30/01 1:36:00 AM |
| Surr: 4-Terphenyl-d14 | 84.8 | 41-108 | | %REC | 1 | 1/30/01 1:36:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS** | | **SW8270C** | | | | Analyst: **KD** |
| Phenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Bis(2-chloroethyl)ether | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2-Chlorophenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 1,3-Dichlorobenzene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 1,4-Dichlorobenzene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benzyl alcohol | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2-Methylphenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 1,2-Dichlorobenzene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Bis(2-chloroisopropyl)ether | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Methylphenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| N-Nitrosodi-n-propylamine | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Hexachloroethane | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Nitrobenzene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Isophorone | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,4-Dimethylphenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benzoic acid | 1,500 | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2-Nitrophenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Bis(2-chloroethoxy)methane | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,4-Dichlorophenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 1,2,4-Trichlorobenzene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Naphthalene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Chloroaniline | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Hexachlorobutadiene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Chloro-3-methylphenol | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2-Methylnaphthalene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Hexachlorocyclopentadiene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,4,6-Trichlorophenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,4,5-Trichlorophenol | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2-Chloronaphthalene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2-Nitroaniline | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Dimethyl phthalate | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,6-Dinitrotoluene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Acenaphthylene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 3-Nitroaniline | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Nitrophenol | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,4-Dinitrophenol | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Acenaphthene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 2,4-Dinitrotoluene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Dibenzofuran | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Chlorophenyl phenyl ether | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Fluorene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Nitroaniline | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4,6-Dinitro-2-methylphenol | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| N-Nitrosodiphenylamine | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 4-Bromophenyl phenyl ether | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Hexachlorobenzene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Pentachlorophenol | ND | 1,200 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Phenanthrene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Anthracene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Carbazole | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Di-n-butyl phthalate | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Fluoranthene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Pyrene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Butyl benzyl phthalate | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Bis(2-ethylhexyl)phthalate | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| 3,3´-Dichlorobenzidine | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benz(a)anthracene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Chrysene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Di-n-octyl phthalate | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benzo(b)fluoranthene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benzo(k)fluoranthene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benzo(a)pyrene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Dibenz(a,h)anthracene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Indeno(1,2,3-cd)pyrene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Benzo(g,h,i)perylene | ND | 610 | | µg/Kg-dry | 1 | 1/30/01 2:07:00 AM |
| Surr: 2-Fluorophenol | 71.5 | 28-93 | | %REC | 1 | 1/30/01 2:07:00 AM |
| Surr: Phenol-d5 | 70.6 | 31-97 | | %REC | 1 | 1/30/01 2:07:00 AM |
| Surr: Nitrobenzene-d5 | 58.3 | 32-95 | | %REC | 1 | 1/30/01 2:07:00 AM |
| Surr: 2-Fluorobiphenyl | 76.4 | 38-98 | | %REC | 1 | 1/30/01 2:07:00 AM |
| Surr: 2,4,6-Tribromophenol | 75.0 | 34-114 | | %REC | 1 | 1/30/01 2:07:00 AM |
| Surr: 4-Terphenyl-d14 | 81.9 | 41-108 | | %REC | 1 | 1/30/01 2:07:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

Sample ID **MB-3703** Batch ID: **3703** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **1/29/01 9:26:00 PM** Prep Date **1/29/01**

Client ID: Run ID: **SV-3_010129A** SeqNo: **105071**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | ND | 250 | µg/Kg | | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 250 | µg/Kg | | | | | | | | | |
| 2-Chlorophenol | ND | 250 | µg/Kg | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 250 | µg/Kg | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 250 | µg/Kg | | | | | | | | | |
| Benzyl alcohol | ND | 500 | µg/Kg | | | | | | | | | |
| 2-Methylphenol | ND | 250 | µg/Kg | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 250 | µg/Kg | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 250 | µg/Kg | | | | | | | | | |
| 4-Methylphenol | ND | 250 | µg/Kg | | | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 250 | µg/Kg | | | | | | | | | |
| Hexachloroethane | ND | 250 | µg/Kg | | | | | | | | | |
| Nitrobenzene | ND | 250 | µg/Kg | | | | | | | | | |
| Isophorone | ND | 250 | µg/Kg | | | | | | | | | |
| 2,4-Dimethylphenol | ND | 250 | µg/Kg | | | | | | | | | |
| Benzoic acid | ND | 500 | µg/Kg | | | | | | | | | |
| 2-Nitrophenol | ND | 250 | µg/Kg | | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 250 | µg/Kg | | | | | | | | | |
| 2,4-Dichlorophenol | ND | 250 | µg/Kg | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | µg/Kg | | | | | | | | | |
| Naphthalene | ND | 250 | µg/Kg | | | | | | | | | |
| 4-Chloroaniline | ND | 250 | µg/Kg | | | | | | | | | |
| Hexachlorobutadiene | ND | 250 | µg/Kg | | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 500 | µg/Kg | | | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | µg/Kg | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

| | Results | RL | unit |
|---|---|---|---|
| Hexachlorocyclopentadiene | ND | 250 | µg/Kg |
| 2,4,6-Trichlorophenol | ND | 250 | µg/Kg |
| 2,4,5-Trichlorophenol | ND | 250 | µg/Kg |
| 2-Chloronaphthalene | ND | 250 | µg/Kg |
| 2-Nitroaniline | ND | 500 | µg/Kg |
| Dimethyl phthalate | ND | 250 | µg/Kg |
| 2,6-Dinitrotoluene | ND | 250 | µg/Kg |
| Acenaphthylene | ND | 250 | µg/Kg |
| 3-Nitroaniline | ND | 500 | µg/Kg |
| 4-Nitrophenol | ND | 500 | µg/Kg |
| 2,4-Dinitrophenol | ND | 500 | µg/Kg |
| Acenaphthene | ND | 250 | µg/Kg |
| 2,4-Dinitrotoluene | ND | 250 | µg/Kg |
| Dibenzofuran | ND | 250 | µg/Kg |
| Diethyl phthalate | ND | 250 | µg/Kg |
| 4-Chlorophenyl phenyl ether | ND | 250 | µg/Kg |
| Fluorene | ND | 250 | µg/Kg |
| 4-Nitroaniline | ND | 500 | µg/Kg |
| 4,6-Dinitro-2-methylphenol | ND | 500 | µg/Kg |
| N-Nitrosodiphenylamine | ND | 250 | µg/Kg |
| 1,2-Diphenylhydrazine (as Azobe | ND | 250 | µg/Kg |
| 4-Bromophenyl phenyl ether | ND | 250 | µg/Kg |
| Hexachlorobenzene | ND | 250 | µg/Kg |
| Pentachlorophenol | ND | 500 | µg/Kg |
| Phenanthrene | ND | 250 | µg/Kg |
| Anthracene | ND | 250 | µg/Kg |
| Carbazole | ND | 250 | µg/Kg |
| Di-n-butyl phthalate | ND | 250 | µg/Kg |
| Fluoranthene | ND | 250 | µg/Kg |
| Pyrene | ND | 250 | µg/Kg |
| Butyl benzyl phthalate | ND | 250 | µg/Kg |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

| | Results | RL | Units | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl)phthalate | ND | 250 | µg/Kg | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 250 | µg/Kg | | | | | | |
| Benz(a)anthracene | ND | 250 | µg/Kg | | | | | | |
| Chrysene | ND | 250 | µg/Kg | | | | | | |
| Di-n-octyl phthalate | ND | 250 | µg/Kg | | | | | | |
| Benzo(b)fluoranthene | ND | 250 | µg/Kg | | | | | | |
| Benzo(k)fluoranthene | ND | 250 | µg/Kg | | | | | | |
| Benzo(a)pyrene | ND | 250 | µg/Kg | | | | | | |
| Dibenz(a,h)anthracene | ND | 250 | µg/Kg | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | µg/Kg | | | | | | |
| Benzo(g,h,i)perylene | ND | 250 | µg/Kg | | | | | | |
| Surr: 2-Fluorophenol | 2716 | 50 | µg/Kg | 3750 | 0 | 72.4 | 28 | 93 | 0 |
| Surr: Phenol-d5 | 2672 | 50 | µg/Kg | 3750 | 0 | 71.3 | 31 | 97 | 0 |
| Surr: Nitrobenzene-d5 | 1690 | 50 | µg/Kg | 2500 | 0 | 67.6 | 32 | 95 | 0 |
| Surr: 2-Fluorobiphenyl | 1847 | 50 | µg/Kg | 2500 | 0 | 73.9 | 38 | 98 | 0 |
| Surr: 2,4,6-Tribromophenol | 2680 | 50 | µg/Kg | 3750 | 0 | 71.5 | 34 | 114 | 0 |
| Surr: 4-Terphenyl-d14 | 2070 | 50 | µg/Kg | 2500 | 0 | 82.8 | 41 | 108 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID **0101218-04DMS** Batch ID: **3703** Test Code: **SW8270C** Units: **µg/Kg-dry** Analysis Date **1/30/01 12:33:00 AM** Prep Date **1/29/01**

Client ID: **00291-A9** Run ID: **SV-3_010129A** SeqNo: **105077**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 6901 | 760 | µg/Kg-dry | 11380 | 0 | 60.6 | 32 | 89 | 0 | | | |
| 2-Chlorophenol | 7108 | 760 | µg/Kg-dry | 11380 | 0 | 62.4 | 36 | 90 | 0 | | | |
| 1,4-Dichlorobenzene | 4289 | 760 | µg/Kg-dry | 7589 | 0 | 56.5 | 29 | 84 | 0 | | | |
| N-Nitrosodi-n-propylamine | 4108 | 760 | µg/Kg-dry | 7589 | 0 | 54.1 | 36 | 90 | 0 | | | |
| 1,2,4-Trichlorobenzene | 4638 | 760 | µg/Kg-dry | 7589 | 0 | 61.1 | 34 | 95 | 0 | | | |
| 4-Chloro-3-methylphenol | 7073 | 1,500 | µg/Kg-dry | 11380 | 0 | 62.1 | 37 | 104 | 0 | | | |
| 4-Nitrophenol | 5333 | 1,500 | µg/Kg-dry | 11380 | 0 | 46.9 | 33 | 116 | 0 | | | |
| Acenaphthene | 5059 | 760 | µg/Kg-dry | 7589 | 0 | 66.7 | 36 | 110 | 0 | | | |
| 2,4-Dinitrotoluene | 2182 | 760 | µg/Kg-dry | 7589 | 0 | 28.8 | 28 | 105 | 0 | | | |
| Pentachlorophenol | 7616 | 1,500 | µg/Kg-dry | 11380 | 0 | 66.9 | 22 | 112 | 0 | | | |
| Pyrene | 5396 | 760 | µg/Kg-dry | 7589 | 197.6 | 68.5 | 23 | 123 | 0 | | | |
| Surr: 2-Fluorophenol | 16180 | 150 | µg/Kg-dry | 11380 | 0 | 142 | 28 | 93 | 0 | | | S |
| Surr: Phenol-d5 | 15200 | 150 | µg/Kg-dry | 11380 | 0 | 134 | 31 | 97 | 0 | | | S |
| Surr: Nitrobenzene-d5 | 8800 | 150 | µg/Kg-dry | 7589 | 0 | 116 | 32 | 95 | 0 | | | S |
| Surr: 2-Fluorobiphenyl | 10920 | 150 | µg/Kg-dry | 7589 | 0 | 144 | 38 | 98 | 0 | | | S |
| Surr: 2,4,6-Tribromophenol | 16540 | 150 | µg/Kg-dry | 11380 | 0 | 145 | 34 | 114 | 0 | | | S |
| Surr: 4-Terphenyl-d14 | 11610 | 150 | µg/Kg-dry | 7589 | 0 | 153 | 41 | 108 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID **0101218-04DMSD** Batch ID: **3703** Test Code: **SW8270C** Units: **µg/Kg-dry** Analysis Date **1/30/01 1:04:00 AM** Prep Date **1/29/01**

Client ID: **00291-A9** Run ID: **SV-3_010129A** SeqNo: **105078**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 7591 | 780 | µg/Kg-dry | 11640 | 0 | 65.2 | 32 | 89 | 6901 | 9.52 | 35 | |
| 2-Chlorophenol | 8000 | 780 | µg/Kg-dry | 11640 | 0 | 68.7 | 36 | 90 | 7108 | 11.8 | 50 | |
| 1,4-Dichlorobenzene | 4837 | 780 | µg/Kg-dry | 7762 | 0 | 62.3 | 29 | 84 | 4289 | 12 | 27 | |
| N-Nitrosodi-n-propylamine | 4665 | 780 | µg/Kg-dry | 7762 | 0 | 60.1 | 36 | 90 | 4108 | 12.7 | 38 | |
| 1,2,4-Trichlorobenzene | 5275 | 780 | µg/Kg-dry | 7762 | 0 | 68 | 34 | 95 | 4638 | 12.8 | 23 | |
| 4-Chloro-3-methylphenol | 8220 | 1,600 | µg/Kg-dry | 11640 | 0 | 70.6 | 37 | 104 | 7073 | 15 | 33 | |
| 4-Nitrophenol | 6245 | 1,600 | µg/Kg-dry | 11640 | 0 | 53.6 | 33 | 116 | 5333 | 15.8 | 50 | |
| Acenaphthene | 5702 | 780 | µg/Kg-dry | 7762 | 0 | 73.5 | 36 | 110 | 5059 | 12 | 19 | |
| 2,4-Dinitrotoluene | 2793 | 780 | µg/Kg-dry | 7762 | 0 | 36 | 28 | 105 | 2182 | 24.5 | 47 | |
| Pentachlorophenol | 8321 | 1,600 | µg/Kg-dry | 11640 | 0 | 71.5 | 22 | 112 | 7616 | 8.85 | 47 | |
| Pyrene | 6163 | 780 | µg/Kg-dry | 7762 | 197.6 | 76.9 | 23 | 123 | 5396 | 13.3 | 36 | |
| Surr: 2-Fluorophenol | 9009 | 160 | µg/Kg-dry | 11640 | 0 | 77.4 | 28 | 93 | 0 | 0 | 0 | |
| Surr: Phenol-d5 | 8656 | 160 | µg/Kg-dry | 11640 | 0 | 74.3 | 31 | 97 | 0 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 5064 | 160 | µg/Kg-dry | 7762 | 0 | 65.2 | 32 | 95 | 0 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 6186 | 160 | µg/Kg-dry | 7762 | 0 | 79.7 | 38 | 98 | 0 | 0 | 0 | |
| Surr: 2,4,6-Tribromophenol | 8937 | 160 | µg/Kg-dry | 11640 | 0 | 76.8 | 34 | 114 | 0 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 6595 | 160 | µg/Kg-dry | 7762 | 0 | 85 | 41 | 108 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Laboratory Control Spike

Sample ID **LCS-3703** Batch ID: **3703** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **1/29/01 9:57:00 PM** Prep Date **1/29/01**

Client ID: Run ID: **SV-3_010129A** SeqNo: **105072**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 2360 | 250 | µg/Kg | 3750 | 0 | 62.9 | 35 | 92 | 0 | | | |
| 2-Chlorophenol | 2376 | 250 | µg/Kg | 3750 | 0 | 63.4 | 41 | 91 | 0 | | | |
| 1,4-Dichlorobenzene | 1498 | 250 | µg/Kg | 2500 | 0 | 59.9 | 38 | 85 | 0 | | | |
| N-Nitrosodi-n-propylamine | 1440 | 250 | µg/Kg | 2500 | 0 | 57.6 | 40 | 94 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1642 | 250 | µg/Kg | 2500 | 0 | 65.7 | 41 | 95 | 0 | | | |
| 4-Chloro-3-methylphenol | 2624 | 500 | µg/Kg | 3750 | 0 | 70 | 41 | 95 | 0 | | | |
| 4-Nitrophenol | 2625 | 500 | µg/Kg | 3750 | 0 | 70 | 42 | 118 | 0 | | | |
| Acenaphthene | 1747 | 250 | µg/Kg | 2500 | 0 | 69.9 | 44 | 98 | 0 | | | |
| 2,4-Dinitrotoluene | 1834 | 250 | µg/Kg | 2500 | 0 | 73.4 | 45 | 105 | 0 | | | |
| Pentachlorophenol | 2458 | 500 | µg/Kg | 3750 | 0 | 65.5 | 36 | 102 | 0 | | | |
| Pyrene | 1950 | 250 | µg/Kg | 2500 | 0 | 78 | 43 | 106 | 0 | | | |
| Surr: 2-Fluorophenol | 2665 | 50 | µg/Kg | 3750 | 0 | 71.1 | 28 | 93 | 0 | | | |
| Surr: Phenol-d5 | 2640 | 50 | µg/Kg | 3750 | 0 | 70.4 | 31 | 97 | 0 | | | |
| Surr: Nitrobenzene-d5 | 1638 | 50 | µg/Kg | 2500 | 0 | 65.5 | 32 | 95 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 1827 | 50 | µg/Kg | 2500 | 0 | 73.1 | 38 | 98 | 0 | | | |
| Surr: 2,4,6-Tribromophenol | 2794 | 50 | µg/Kg | 3750 | 0 | 74.5 | 34 | 114 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 2105 | 50 | µg/Kg | 2500 | 0 | 84.2 | 41 | 108 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01C | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PETROLEUM HYDROCARBONS** | | **MAEPH** | | | | Analyst: **KEM** |
| C9-C18 Aliphatic Hydrocarbons | 96 | 62 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| C19-C36 Aliphatic Hydrocarbons | 280 | 62 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| C11-C22 Aromatic Hydrocarbons | 76 | 62 | # | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Naphthalene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| 2-Methylnaphthalene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Acenaphthylene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Acenaphthene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Fluorene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Phenanthrene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Anthracene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Fluoranthene | 0.59 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Pyrene | 0.60 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Benz(a)anthracene | 0.41 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Chrysene | 0.47 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Benzo(b)fluoranthene | 0.66 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Benzo(k)fluoranthene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Benzo(a)pyrene | 0.48 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Dibenz(a,h)anthracene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Indeno(1,2,3-cd)pyrene | 0.48 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Benzo(g,h,i)perylene | 0.57 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 12:27:00 AM |
| Surr: 1-Chlorooctadecane | 118 | 40-140 | | %REC | 1 | 1/30/01 12:27:00 AM |
| Surr: 2-Bromonaphthalene | 91.6 | 40-140 | | %REC | 1 | 1/30/01 12:27:00 AM |
| Surr: 2-Fluorobiphenyl | 80.4 | 40-140 | | %REC | 1 | 1/30/01 12:27:00 AM |
| Surr: o-Terphenyl | 60.6 | 40-140 | | %REC | 1 | 1/30/01 12:27:00 AM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ___ Yes ✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: [signature] DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02C | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PETROLEUM HYDROCARBONS** | | **MAEPH** | | | | Analyst: **KEM** |
| C9-C18 Aliphatic Hydrocarbons | ND | 58 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| C19-C36 Aliphatic Hydrocarbons | ND | 58 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| C11-C22 Aromatic Hydrocarbons | ND | 58 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Naphthalene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| 2-Methylnaphthalene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Acenaphthylene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Acenaphthene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Fluorene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Phenanthrene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Anthracene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Fluoranthene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Pyrene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Benz(a)anthracene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Chrysene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Benzo(b)fluoranthene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Benzo(k)fluoranthene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Benzo(a)pyrene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Dibenz(a,h)anthracene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Benzo(g,h,i)perylene | ND | 0.29 | | mg/Kg-dry | 1 | 1/30/01 1:02:00 AM |
| Surr: 1-Chlorooctadecane | 66.6 | 40-140 | | %REC | 1 | 1/30/01 1:02:00 AM |
| Surr: 2-Bromonaphthalene | 99.4 | 40-140 | | %REC | 1 | 1/30/01 1:02:00 AM |
| Surr: 2-Fluorobiphenyl | 90.4 | 40-140 | | %REC | 1 | 1/30/01 1:02:00 AM |
| Surr: o-Terphenyl | 51.4 | 40-140 | | %REC | 1 | 1/30/01 1:02:00 AM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ___ Yes ✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03C | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PETROLEUM HYDROCARBONS** | | **MAEPH** | | | | Analyst: **KEM** |
| C9-C18 Aliphatic Hydrocarbons | ND | 140 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| C19-C36 Aliphatic Hydrocarbons | ND | 140 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| C11-C22 Aromatic Hydrocarbons | ND | 140 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Naphthalene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| 2-Methylnaphthalene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Acenaphthylene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Acenaphthene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Fluorene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Phenanthrene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Anthracene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Fluoranthene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Pyrene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Benz(a)anthracene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Chrysene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Benzo(b)fluoranthene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Benzo(k)fluoranthene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Benzo(a)pyrene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Dibenz(a,h)anthracene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Benzo(g,h,i)perylene | ND | 0.71 | | mg/Kg-dry | 1 | 1/30/01 1:38:00 AM |
| Surr: 1-Chlorooctadecane | 75.9 | 40-140 | | %REC | 1 | 1/30/01 1:38:00 AM |
| Surr: 2-Bromonaphthalene | 95.7 | 40-140 | | %REC | 1 | 1/30/01 1:38:00 AM |
| Surr: 2-Fluorobiphenyl | 88.1 | 40-140 | | %REC | 1 | 1/30/01 1:38:00 AM |
| Surr: o-Terphenyl | 59.8 | 40-140 | | %REC | 1 | 1/30/01 1:38:00 AM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ___ Yes ✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04C | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PETROLEUM HYDROCARBONS** | | **MAEPH** | | | | Analyst: **KEM** |
| C9-C18 Aliphatic Hydrocarbons | ND | 150 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| C19-C36 Aliphatic Hydrocarbons | ND | 150 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| C11-C22 Aromatic Hydrocarbons | ND | 150 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Naphthalene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| 2-Methylnaphthalene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Acenaphthylene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Acenaphthene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Fluorene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Phenanthrene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Anthracene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Fluoranthene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Pyrene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Benz(a)anthracene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Chrysene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Benzo(b)fluoranthene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Benzo(k)fluoranthene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Benzo(a)pyrene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Dibenz(a,h)anthracene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Benzo(g,h,i)perylene | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 2:13:00 AM |
| Surr: 1-Chlorooctadecane | 69.1 | 40-140 | | %REC | 1 | 1/30/01 2:13:00 AM |
| Surr: 2-Bromonaphthalene | 101 | 40-140 | | %REC | 1 | 1/30/01 2:13:00 AM |
| Surr: 2-Fluorobiphenyl | 89.4 | 40-140 | | %REC | 1 | 1/30/01 2:13:00 AM |
| Surr: o-Terphenyl | 56.1 | 40-140 | | %REC | 1 | 1/30/01 2:13:00 AM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ___ Yes ✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05C | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PETROLEUM HYDROCARBONS** | | **MAEPH** | | | | Analyst: **KEM** |
| C9-C18 Aliphatic Hydrocarbons | ND | 61 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| C19-C36 Aliphatic Hydrocarbons | ND | 61 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| C11-C22 Aromatic Hydrocarbons | ND | 61 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Naphthalene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| 2-Methylnaphthalene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Acenaphthylene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Acenaphthene | 0.38 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Fluorene | ND | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Phenanthrene | 3.5 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Anthracene | 0.64 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Fluoranthene | 6.5 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Pyrene | 5.3 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Benz(a)anthracene | 2.8 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Chrysene | 2.7 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Benzo(b)fluoranthene | 4.1 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Benzo(k)fluoranthene | 1.4 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Benzo(a)pyrene | 3.0 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Dibenz(a,h)anthracene | 0.51 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Indeno(1,2,3-cd)pyrene | 2.4 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Benzo(g,h,i)perylene | 2.4 | 0.31 | | mg/Kg-dry | 1 | 1/30/01 3:24:00 AM |
| Surr: 1-Chlorooctadecane | 74.6 | 40-140 | | %REC | 1 | 1/30/01 3:24:00 AM |
| Surr: 2-Bromonaphthalene | 97.9 | 40-140 | | %REC | 1 | 1/30/01 3:24:00 AM |
| Surr: 2-Fluorobiphenyl | 89.2 | 40-140 | | %REC | 1 | 1/30/01 3:24:00 AM |
| Surr: o-Terphenyl | 49.2 | 40-140 | | %REC | 1 | 1/30/01 3:24:00 AM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ___ Yes ✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

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J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | **Tag Number:** | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06C | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PETROLEUM HYDROCARBONS** | | **MAEPH** | | | | Analyst: **KEM** |
| C9-C18 Aliphatic Hydrocarbons | ND | 120 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| C19-C36 Aliphatic Hydrocarbons | ND | 120 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| C11-C22 Aromatic Hydrocarbons | ND | 120 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Naphthalene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| 2-Methylnaphthalene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Acenaphthylene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Acenaphthene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Fluorene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Phenanthrene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Anthracene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Fluoranthene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Pyrene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Benz(a)anthracene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Chrysene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Benzo(b)fluoranthene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Benzo(k)fluoranthene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Benzo(a)pyrene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Dibenz(a,h)anthracene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Benzo(g,h,i)perylene | ND | 0.62 | | mg/Kg-dry | 1 | 1/30/01 4:00:00 AM |
| Surr: 1-Chlorooctadecane | 51.8 | 40-140 | | %REC | 1 | 1/30/01 4:00:00 AM |
| Surr: 2-Bromonaphthalene | 101 | 40-140 | | %REC | 1 | 1/30/01 4:00:00 AM |
| Surr: 2-Fluorobiphenyl | 91.7 | 40-140 | | %REC | 1 | 1/30/01 4:00:00 AM |
| Surr: o-Terphenyl | 59.1 | 40-140 | | %REC | 1 | 1/30/01 4:00:00 AM |

Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. EPH: C11-C22 Aromatic Hydrocarbons exclude the concentration of target PAH analytes. VPH: C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range. C9-C12 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in this range and concentration of C9-C10 Aromatic Hydrocarbons.

CERTIFICATION

Were all QA/QC procedures required by the VPH or EPH method followed: ✓ Yes ___ No - If No, See Case Narrative

Were all performance/acceptance standards for required QA/QC procedures achieved: ___ Yes ✓ No - If No, See Case Narrative

Were any significant modifications made to the method as specified in section 11.3: ___ No ✓ Yes - Details enclosed

*I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.*

SIGNATURE: _____ DATE: 2-2-01

PRINTED NAME: Nancy Stewart POSITION: Laboratory Director (or designee)

**Qualifiers:** RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits E - Value above quantitation range

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits # - See Case Narrative

B - Analyte detected in the associated Method Blank

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

Sample ID **MB-3696** Batch ID: **3696** Test Code: **MAEPH** Units: **mg/Kg** Analysis Date **1/29/01 11:16:00 PM** Prep Date **1/26/01**

Client ID: Run ID: **SV-2_010131A** SeqNo: **105399**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C9-C18 Aliphatic Hydrocarbons | ND | 50 | mg/Kg | | | | | | | | | |
| C19-C36 Aliphatic Hydrocarbons | ND | 50 | mg/Kg | | | | | | | | | |
| C11-C22 Aromatic Hydrocarbons | ND | 50 | mg/Kg | | | | | | | | | |
| Naphthalene | ND | 0.25 | mg/Kg | | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Acenaphthylene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Acenaphthene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Fluorene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Phenanthrene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Anthracene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Fluoranthene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Pyrene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Benz(a)anthracene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Chrysene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Benzo(a)pyrene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.25 | mg/Kg | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 0.6088 | 0.25 | mg/Kg | 1 | 0 | 60.9 | 40 | 140 | 0 | | | |
| Surr: 2-Bromonaphthalene | 5.16 | 0.25 | mg/Kg | 5 | 0 | 103 | 40 | 140 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 4.624 | 0.25 | mg/Kg | 5 | 0 | 92.5 | 40 | 140 | 0 | | | |
| Surr: o-Terphenyl | 0.6825 | 0.25 | mg/Kg | 1 | 0 | 68.2 | 40 | 140 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Sample Matrix Spike

Sample ID **0101218-06CMS** Batch ID: **3696** Test Code: **MAEPH** Units: **mg/Kg-dry** Analysis Date **1/30/01 4:35:00 AM** Prep Date **1/26/01**

Client ID: **00291-A1** Run ID: **SV-2_010131A** SeqNo: **105417**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Eicosane | 2.24 | 0.62 | mg/Kg-dry | 3.106 | 0 | 72.1 | 40 | 140 | 0 | | | |
| n-Nonadecane | 1.997 | 0.62 | mg/Kg-dry | 3.106 | 0 | 64.3 | 40 | 140 | 0 | | | |
| n-Nonane | 1.382 | 0.62 | mg/Kg-dry | 3.106 | 0 | 44.5 | 40 | 140 | 0 | | | |
| n-Octacosane | 2.411 | 0.62 | mg/Kg-dry | 3.106 | 0.7176 | 54.5 | 40 | 140 | 0 | | | |
| n-Tetradecane | 1.973 | 0.62 | mg/Kg-dry | 3.106 | 0 | 63.5 | 40 | 140 | 0 | | | |
| Naphthalene | 1.6 | 0.62 | mg/Kg-dry | 3.106 | 0 | 51.5 | 40 | 140 | 0 | | | |
| Acenaphthene | 1.696 | 0.62 | mg/Kg-dry | 3.106 | 0 | 54.6 | 40 | 140 | 0 | | | |
| Anthracene | 1.755 | 0.62 | mg/Kg-dry | 3.106 | 0 | 56.5 | 40 | 140 | 0 | | | |
| Pyrene | 1.914 | 0.62 | mg/Kg-dry | 3.106 | 0 | 61.6 | 40 | 140 | 0 | | | |
| Chrysene | 1.945 | 0.62 | mg/Kg-dry | 3.106 | 0 | 62.6 | 40 | 140 | 0 | | | |
| Surr: 1-Chlorooctadecane | 1.345 | 0.62 | mg/Kg-dry | 2.485 | 0 | 54.1 | 40 | 140 | 0 | | | |
| Surr: 2-Bromonaphthalene | 13.17 | 0.62 | mg/Kg-dry | 12.43 | 0 | 106 | 40 | 140 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 11.52 | 0.62 | mg/Kg-dry | 12.43 | 0 | 92.7 | 40 | 140 | 0 | | | |
| Surr: o-Terphenyl | 1.395 | 0.62 | mg/Kg-dry | 2.485 | 0 | 56.1 | 40 | 140 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Duplicate

Sample ID **0101218-04CDUP** Batch ID: **3696** Test Code: **MAEPH** Units: **mg/Kg-dry** Analysis Date **1/30/01 2:49:00 AM** Prep Date **1/26/01**

Client ID: **00291-A9** Run ID: **SV-2_010131A** SeqNo: **105414**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C9-C18 Aliphatic Hydrocarbons | ND | 150 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| C19-C36 Aliphatic Hydrocarbons | ND | 150 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| C11-C22 Aromatic Hydrocarbons | ND | 150 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Naphthalene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| 2-Methylnaphthalene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Acenaphthylene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Acenaphthene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Fluorene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Phenanthrene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Anthracene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Fluoranthene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Pyrene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Benz(a)anthracene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Chrysene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Benzo(b)fluoranthene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Benzo(k)fluoranthene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Benzo(a)pyrene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Dibenz(a,h)anthracene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Indeno(1,2,3-cd)pyrene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Benzo(g,h,i)perylene | ND | 0.77 | mg/Kg-dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | |
| Surr: 1-Chlorooctadecane | 2.096 | 0.77 | mg/Kg-dry | 3.082 | 0 | 68 | 40 | 140 | 0 | 0 | 0 | |
| Surr: 2-Bromonaphthalene | 15.27 | 0.77 | mg/Kg-dry | 15.41 | 0 | 99.1 | 40 | 140 | 0 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 13.91 | 0.77 | mg/Kg-dry | 15.41 | 0 | 90.3 | 40 | 140 | 0 | 0 | 0 | |
| Surr: o-Terphenyl | 1.822 | 0.77 | mg/Kg-dry | 3.082 | 0 | 59.1 | 40 | 140 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *07-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-3696** Batch ID: **3696** Test Code: **MAEPH** Units: **mg/Kg** Analysis Date **1/29/01 11:51:00 PM** Prep Date **1/26/01**

Client ID: Run ID: **SV-2_010131A** SeqNo: **105402**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Eicosane | 0.7488 | 0.25 | mg/Kg | 1.25 | 0 | 59.9 | 40 | 140 | 0 | | | |
| n-Nonadecane | 0.7475 | 0.25 | mg/Kg | 1.25 | 0 | 59.8 | 40 | 140 | 0 | | | |
| n-Nonane | 0.4675 | 0.25 | mg/Kg | 1.25 | 0 | 37.4 | 40 | 140 | 0 | | | S |
| n-Octacosane | 0.62 | 0.25 | mg/Kg | 1.25 | 0 | 49.6 | 40 | 140 | 0 | | | |
| n-Tetradecane | 0.6262 | 0.25 | mg/Kg | 1.25 | 0 | 50.1 | 40 | 140 | 0 | | | |
| Naphthalene | 0.5738 | 0.25 | mg/Kg | 1.25 | 0 | 45.9 | 40 | 140 | 0 | | | |
| Acenaphthene | 0.6112 | 0.25 | mg/Kg | 1.25 | 0 | 48.9 | 40 | 140 | 0 | | | |
| Anthracene | 0.6738 | 0.25 | mg/Kg | 1.25 | 0 | 53.9 | 40 | 140 | 0 | | | |
| Pyrene | 0.6712 | 0.25 | mg/Kg | 1.25 | 0 | 53.7 | 40 | 140 | 0 | | | |
| Chrysene | 0.7375 | 0.25 | mg/Kg | 1.25 | 0 | 59 | 40 | 140 | 0 | | | |
| Surr: 1-Chlorooctadecane | 0.4975 | 0.25 | mg/Kg | 1 | 0 | 49.8 | 40 | 140 | 0 | | | |
| Surr: 2-Bromonaphthalene | 5.059 | 0.25 | mg/Kg | 5 | 0 | 101 | 40 | 140 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 4.478 | 0.25 | mg/Kg | 5 | 0 | 89.6 | 40 | 140 | 0 | | | |
| Surr: o-Terphenyl | 0.55 | 0.25 | mg/Kg | 1 | 0 | 55 | 40 | 140 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | **SW8081A** | | | | Analyst: **KEM** |
| alpha-BHC | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| beta-BHC | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| delta-BHC | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| gamma-BHC | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Heptachlor | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Aldrin | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Heptachlor epoxide | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Endosulfan I | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| alpha-Chlordane | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| gamma-Chlordane | ND | 1.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Dieldrin | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| 4,4´-DDE | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Endrin | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Endosulfan II | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| 4,4´-DDD | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Endrin aldehyde | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Endrin ketone | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Endosulfan sulfate | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| 4,4´-DDT | ND | 2.0 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Methoxychlor | ND | 10 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Toxaphene | ND | 31 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Technical Chlordane | ND | 31 | | µg/Kg-dry | 1 | 1/29/01 3:07:00 PM |
| Surr: Tetrachloro-m-xylene | 52.0 | 50-150 | | %REC | 1 | 1/29/01 3:07:00 PM |
| Surr: Decachlorobiphenyl | 198 | 41-154 | S | %REC | 1 | 1/29/01 3:07:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | **SW8081A** | | | | Analyst: **KEM** |
| alpha-BHC | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| beta-BHC | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| delta-BHC | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| gamma-BHC | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Heptachlor | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Aldrin | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Heptachlor epoxide | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Endosulfan I | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| alpha-Chlordane | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| gamma-Chlordane | ND | 0.91 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Dieldrin | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| 4,4´-DDE | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Endrin | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Endosulfan II | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| 4,4´-DDD | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Endrin aldehyde | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Endrin ketone | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Endosulfan sulfate | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| 4,4´-DDT | ND | 1.8 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Methoxychlor | ND | 9.1 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Toxaphene | ND | 28 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Technical Chlordane | ND | 28 | | µg/Kg-dry | 1 | 1/29/01 9:09:00 PM |
| Surr: Tetrachloro-m-xylene | 76.3 | 50-150 | | %REC | 1 | 1/29/01 9:09:00 PM |
| Surr: Decachlorobiphenyl | 163 | 41-154 | S | %REC | 1 | 1/29/01 9:09:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | **SW8081A** | | | | Analyst: **KEM** |
| alpha-BHC | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| beta-BHC | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| delta-BHC | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| gamma-BHC | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Heptachlor | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Aldrin | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Heptachlor epoxide | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Endosulfan I | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| alpha-Chlordane | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| gamma-Chlordane | ND | 2.3 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Dieldrin | ND | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| 4,4´-DDE | 60 | 23 | | µg/Kg-dry | 5 | 1/30/01 2:00:00 PM |
| Endrin | ND | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Endosulfan II | ND | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| 4,4´-DDD | 7.5 | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Endrin aldehyde | ND | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Endrin ketone | ND | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Endosulfan sulfate | ND | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| 4,4´-DDT | 32 | 4.6 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Methoxychlor | ND | 23 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Toxaphene | ND | 72 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Technical Chlordane | ND | 72 | | µg/Kg-dry | 1 | 1/29/01 9:37:00 PM |
| Surr: Tetrachloro-m-xylene | 35.6 | 50-150 | S | %REC | 1 | 1/29/01 9:37:00 PM |
| Surr: Decachlorobiphenyl | 57.9 | 41-154 | | %REC | 1 | 1/29/01 9:37:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | **SW8081A** | | | | Analyst: **KEM** |
| alpha-BHC | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| beta-BHC | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| delta-BHC | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| gamma-BHC | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Heptachlor | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Aldrin | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Heptachlor epoxide | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Endosulfan I | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| alpha-Chlordane | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| gamma-Chlordane | ND | 2.5 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Dieldrin | ND | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| 4,4´-DDE | 150 | 50 | | µg/Kg-dry | 10 | 1/30/01 4:23:00 PM |
| Endrin | ND | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Endosulfan II | ND | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| 4,4´-DDD | 29 | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Endrin aldehyde | ND | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Endrin ketone | ND | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Endosulfan sulfate | ND | 5.0 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| 4,4´-DDT | 70 | 50 | | µg/Kg-dry | 10 | 1/30/01 4:23:00 PM |
| Methoxychlor | ND | 25 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Toxaphene | ND | 78 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Technical Chlordane | ND | 78 | | µg/Kg-dry | 1 | 1/29/01 11:03:00 PM |
| Surr: Tetrachloro-m-xylene | 52.3 | 50-150 | | %REC | 1 | 1/29/01 11:03:00 PM |
| Surr: Decachlorobiphenyl | 62.1 | 41-154 | | %REC | 1 | 1/29/01 11:03:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | **SW8081A** | | | | Analyst: **KEM** |
| alpha-BHC | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| beta-BHC | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| delta-BHC | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| gamma-BHC | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Heptachlor | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Aldrin | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Heptachlor epoxide | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Endosulfan I | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| alpha-Chlordane | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| gamma-Chlordane | ND | 0.95 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Dieldrin | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| 4,4´-DDE | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Endrin | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Endosulfan II | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| 4,4´-DDD | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Endrin aldehyde | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Endrin ketone | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Endosulfan sulfate | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| 4,4´-DDT | ND | 1.9 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Methoxychlor | ND | 9.5 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Toxaphene | ND | 30 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Technical Chlordane | ND | 30 | | µg/Kg-dry | 1 | 1/29/01 11:32:00 PM |
| Surr: Tetrachloro-m-xylene | 88.2 | 50-150 | | %REC | 1 | 1/29/01 11:32:00 PM |
| Surr: Decachlorobiphenyl | 217 | 41-154 | S | %REC | 1 | 1/29/01 11:32:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | **SW8081A** | | | | Analyst: **KEM** |
| alpha-BHC | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| beta-BHC | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| delta-BHC | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| gamma-BHC | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Heptachlor | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Aldrin | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Heptachlor epoxide | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Endosulfan I | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| alpha-Chlordane | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| gamma-Chlordane | ND | 2.0 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Dieldrin | ND | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| 4,4´-DDE | 280 | 39 | | µg/Kg-dry | 10 | 1/30/01 5:20:00 PM |
| Endrin | ND | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Endosulfan II | ND | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| 4,4´-DDD | 43 | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Endrin aldehyde | ND | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Endrin ketone | ND | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Endosulfan sulfate | ND | 3.9 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| 4,4´-DDT | 97 | 39 | | µg/Kg-dry | 10 | 1/30/01 5:20:00 PM |
| Methoxychlor | ND | 20 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Toxaphene | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Technical Chlordane | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 12:01:00 AM |
| Surr: Tetrachloro-m-xylene | 114 | 50-150 | | %REC | 1 | 1/30/01 12:01:00 AM |
| Surr: Decachlorobiphenyl | 114 | 41-154 | | %REC | 1 | 1/30/01 12:01:00 AM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Method Blank

Sample ID **MB-3692** Batch ID: **3692** Test Code: **SW8081A** Units: **µg/Kg** Analysis Date **1/30/01 1:02:00 PM** Prep Date **1/26/01**

Client ID: Run ID: **GC-TRENT_010130A** SeqNo: **105438**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | 0.80 | µg/Kg | | | | | | | | | |
| beta-BHC | ND | 0.80 | µg/Kg | | | | | | | | | |
| delta-BHC | ND | 0.80 | µg/Kg | | | | | | | | | |
| gamma-BHC | ND | 0.80 | µg/Kg | | | | | | | | | |
| Heptachlor | ND | 0.80 | µg/Kg | | | | | | | | | |
| Aldrin | ND | 0.80 | µg/Kg | | | | | | | | | |
| Heptachlor epoxide | ND | 0.80 | µg/Kg | | | | | | | | | |
| Endosulfan I | ND | 0.80 | µg/Kg | | | | | | | | | |
| alpha-Chlordane | ND | 0.80 | µg/Kg | | | | | | | | | |
| gamma-Chlordane | ND | 0.80 | µg/Kg | | | | | | | | | |
| Dieldrin | ND | 1.6 | µg/Kg | | | | | | | | | |
| 4,4´-DDE | ND | 1.6 | µg/Kg | | | | | | | | | |
| Endrin | ND | 1.6 | µg/Kg | | | | | | | | | |
| Endosulfan II | ND | 1.6 | µg/Kg | | | | | | | | | |
| 4,4´-DDD | ND | 1.6 | µg/Kg | | | | | | | | | |
| Endrin aldehyde | ND | 1.6 | µg/Kg | | | | | | | | | |
| Endrin ketone | ND | 1.6 | µg/Kg | | | | | | | | | |
| Endosulfan sulfate | ND | 1.6 | µg/Kg | | | | | | | | | |
| 4,4´-DDT | ND | 1.6 | µg/Kg | | | | | | | | | |
| Methoxychlor | ND | 8.0 | µg/Kg | | | | | | | | | |
| Toxaphene | ND | 25 | µg/Kg | | | | | | | | | |
| Technical Chlordane | ND | 25 | µg/Kg | | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 7.01 | 0 | µg/Kg | 8 | 0 | 87.6 | 50 | 150 | 0 | | | |
| Surr: Decachlorobiphenyl | 8.434 | 0 | µg/Kg | 8 | 0 | 105 | 41 | 154 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Sample Matrix Spike

Sample ID **0101218-03DMS** Batch ID: **3692** Test Code: **SW8081A** Units: **µg/Kg-dry** Analysis Date **1/29/01 10:06:00 PM** Prep Date **1/26/01**

Client ID: **00291-A7** Run ID: **GC-TRENT_010129A** SeqNo: **105446**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| gamma-BHC | 24.32 | 2.3 | µg/Kg-dry | 28.45 | 0 | 85.5 | 31 | 154 | 0 | | | |
| Heptachlor | 18.11 | 2.3 | µg/Kg-dry | 28.45 | 0 | 63.6 | 38 | 143 | 0 | | | |
| Aldrin | 26.21 | 2.3 | µg/Kg-dry | 28.45 | 0 | 92.1 | 40 | 146 | 0 | | | |
| Dieldrin | 65.12 | 4.6 | µg/Kg-dry | 71.12 | 0 | 91.6 | 43 | 142 | 0 | | | |
| Endrin | 42.98 | 4.6 | µg/Kg-dry | 71.12 | 0 | 60.4 | 40 | 162 | 0 | | | |
| 4,4´-DDT | 116.7 | 4.6 | µg/Kg-dry | 71.12 | 32.23 | 119 | 33 | 159 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 19.17 | 0 | µg/Kg-dry | 22.76 | 0 | 84.2 | 50 | 150 | 0 | | | |
| Surr: Decachlorobiphenyl | 25.21 | 0 | µg/Kg-dry | 22.76 | 0 | 111 | 41 | 154 | 0 | | | |

Sample ID **0101218-03DMSD** Batch ID: **3692** Test Code: **SW8081A** Units: **µg/Kg-dry** Analysis Date **1/29/01 10:35:00 PM** Prep Date **1/26/01**

Client ID: **00291-A7** Run ID: **GC-TRENT_010129A** SeqNo: **105447**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| gamma-BHC | 22.96 | 2.3 | µg/Kg-dry | 28.65 | 0 | 80.2 | 31 | 154 | 24.32 | 5.74 | 50 | |
| Heptachlor | 14.52 | 2.3 | µg/Kg-dry | 28.65 | 0 | 50.7 | 38 | 143 | 18.11 | 22 | 50 | |
| Aldrin | 25.5 | 2.3 | µg/Kg-dry | 28.65 | 0 | 89 | 40 | 146 | 26.21 | 2.76 | 50 | |
| Dieldrin | 59.97 | 4.6 | µg/Kg-dry | 71.62 | 0 | 83.7 | 43 | 142 | 65.12 | 8.23 | 50 | |
| Endrin | 35.34 | 4.6 | µg/Kg-dry | 71.62 | 0 | 49.3 | 40 | 162 | 42.98 | 19.5 | 50 | |
| 4,4´-DDT | 71.56 | 4.6 | µg/Kg-dry | 71.62 | 32.23 | 54.9 | 33 | 159 | 116.7 | 48 | 50 | |
| Surr: Tetrachloro-m-xylene | 20.36 | 0 | µg/Kg-dry | 22.92 | 0 | 88.9 | 50 | 150 | 0 | 0 | 0 | |
| Surr: Decachlorobiphenyl | 23.52 | 0 | µg/Kg-dry | 22.92 | 0 | 103 | 41 | 154 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Laboratory Control Spike

Sample ID **LCS-3692** Batch ID: **3692** Test Code: **SW8081A** Units: **µg/Kg** Analysis Date **1/30/01 1:31:00 PM** Prep Date **1/26/01**

Client ID: Run ID: **GC-TRENT_010130A** SeqNo: **105439**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| gamma-BHC | 10.21 | 0.80 | µg/Kg | 10 | 0 | 102 | 40 | 141 | 0 | | | |
| Heptachlor | 9.481 | 0.80 | µg/Kg | 10 | 0 | 94.8 | 47 | 137 | 0 | | | |
| Aldrin | 10.51 | 0.80 | µg/Kg | 10 | 0 | 105 | 45 | 140 | 0 | | | |
| Dieldrin | 25.18 | 1.6 | µg/Kg | 25 | 0 | 101 | 43 | 150 | 0 | | | |
| Endrin | 27.52 | 1.6 | µg/Kg | 25 | 0 | 110 | 43 | 184 | 0 | | | |
| 4,4´-DDT | 27.99 | 1.6 | µg/Kg | 25 | 0 | 112 | 38 | 153 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 7.682 | 0 | µg/Kg | 8 | 0 | 96 | 50 | 150 | 0 | | | |
| Surr: Decachlorobiphenyl | 9.125 | 0 | µg/Kg | 8 | 0 | 114 | 41 | 154 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **PCBS BY EPA8082** | | **SW8082** | | | | Analyst: **RAP** |
| Aroclor 1016 | ND | 310 | | µg/Kg-dry | 10 | 1/29/01 8:48:00 PM |
| Aroclor 1221 | ND | 310 | | µg/Kg-dry | 10 | 1/29/01 8:48:00 PM |
| Aroclor 1232 | ND | 310 | | µg/Kg-dry | 10 | 1/29/01 8:48:00 PM |
| Aroclor 1242 | ND | 310 | | µg/Kg-dry | 10 | 1/29/01 8:48:00 PM |
| Aroclor 1248 | ND | 310 | | µg/Kg-dry | 10 | 1/29/01 8:48:00 PM |
| Aroclor 1254 | ND | 310 | | µg/Kg-dry | 10 | 1/29/01 8:48:00 PM |
| Aroclor 1260 | 180,000 | 6,200 | | µg/Kg-dry | 200 | 1/30/01 3:10:00 PM |
| Surr: Tetrachloro-m-xylene | 47.3 | 43-117 | | %REC | 10 | 1/29/01 8:48:00 PM |
| Surr: Decachlorobiphenyl | 190 | 36-130 | S | %REC | 10 | 1/29/01 8:48:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **PCBS BY EPA8082** | | **SW8082** | | | | Analyst: **RAP** |
| Aroclor 1016 | ND | 280 | | µg/Kg-dry | 10 | 1/29/01 9:14:00 PM |
| Aroclor 1221 | ND | 280 | | µg/Kg-dry | 10 | 1/29/01 9:14:00 PM |
| Aroclor 1232 | ND | 280 | | µg/Kg-dry | 10 | 1/29/01 9:14:00 PM |
| Aroclor 1242 | ND | 280 | | µg/Kg-dry | 10 | 1/29/01 9:14:00 PM |
| Aroclor 1248 | ND | 280 | | µg/Kg-dry | 10 | 1/29/01 9:14:00 PM |
| Aroclor 1254 | ND | 280 | | µg/Kg-dry | 10 | 1/29/01 9:14:00 PM |
| Aroclor 1260 | 190,000 | 5,700 | | µg/Kg-dry | 200 | 1/30/01 3:37:00 PM |
| Surr: Tetrachloro-m-xylene | 73.1 | 43-117 | | %REC | 10 | 1/29/01 9:14:00 PM |
| Surr: Decachlorobiphenyl | 132 | 36-130 | S | %REC | 10 | 1/29/01 9:14:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **PCBS BY EPA8082** | | **SW8082** | | | | Analyst: **RAP** |
| Aroclor 1016 | ND | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Aroclor 1221 | ND | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Aroclor 1232 | ND | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Aroclor 1242 | ND | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Aroclor 1248 | ND | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Aroclor 1254 | ND | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Aroclor 1260 | 140 | 72 | | µg/Kg-dry | 1 | 1/30/01 4:03:00 PM |
| Surr: Tetrachloro-m-xylene | 31.3 | 43-117 | S | %REC | 1 | 1/30/01 4:03:00 PM |
| Surr: Decachlorobiphenyl | 36.4 | 36-130 | | %REC | 1 | 1/30/01 4:03:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **PCBS BY EPA8082** | | **SW8082** | | | | Analyst: **RAP** |
| Aroclor 1016 | ND | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Aroclor 1221 | ND | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Aroclor 1232 | ND | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Aroclor 1242 | ND | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Aroclor 1248 | ND | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Aroclor 1254 | ND | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Aroclor 1260 | 250 | 78 | | µg/Kg-dry | 1 | 1/30/01 4:30:00 PM |
| Surr: Tetrachloro-m-xylene | 43.5 | 43-117 | | %REC | 1 | 1/30/01 4:30:00 PM |
| Surr: Decachlorobiphenyl | 44.6 | 36-130 | | %REC | 1 | 1/30/01 4:30:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **PCBS BY EPA8082** | | **SW8082** | | | | Analyst: **RAP** |
| Aroclor 1016 | ND | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Aroclor 1221 | ND | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Aroclor 1232 | ND | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Aroclor 1242 | ND | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Aroclor 1248 | ND | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Aroclor 1254 | ND | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Aroclor 1260 | 2,300 | 300 | | µg/Kg-dry | 10 | 1/29/01 10:34:00 PM |
| Surr: Tetrachloro-m-xylene | 81.2 | 43-117 | | %REC | 10 | 1/29/01 10:34:00 PM |
| Surr: Decachlorobiphenyl | 120 | 36-130 | | %REC | 10 | 1/29/01 10:34:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *02-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **PCBS BY EPA8082** | | **SW8082** | | | | Analyst: **RAP** |
| Aroclor 1016 | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Aroclor 1221 | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Aroclor 1232 | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Aroclor 1242 | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Aroclor 1248 | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Aroclor 1254 | ND | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Aroclor 1260 | 210 | 61 | | µg/Kg-dry | 1 | 1/30/01 4:57:00 PM |
| Surr: Tetrachloro-m-xylene | 88.9 | 43-117 | | %REC | 1 | 1/30/01 4:57:00 PM |
| Surr: Decachlorobiphenyl | 79.8 | 36-130 | | %REC | 1 | 1/30/01 4:57:00 PM |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Method Blank

Sample ID **MB-3691** Batch ID: **3691** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **1/30/01 2:17:00 PM** Prep Date **1/26/01**

Client ID: Run ID: **GC-ELVIS_010129A** SeqNo: **105384**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | 25 | µg/Kg | | | | | | | | | |
| Aroclor 1221 | ND | 25 | µg/Kg | | | | | | | | | |
| Aroclor 1232 | ND | 25 | µg/Kg | | | | | | | | | |
| Aroclor 1242 | ND | 25 | µg/Kg | | | | | | | | | |
| Aroclor 1248 | ND | 25 | µg/Kg | | | | | | | | | |
| Aroclor 1254 | ND | 25 | µg/Kg | | | | | | | | | |
| Aroclor 1260 | ND | 25 | µg/Kg | | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 6.757 | 0 | µg/Kg | 8 | 0 | 84.5 | 43 | 117 | 0 | | | |
| Surr: Decachlorobiphenyl | 7.096 | 0 | µg/Kg | 8 | 0 | 88.7 | 36 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID **0101218-06DMS** Batch ID: **3691** Test Code: **SW8082** Units: **µg/Kg-dry** Analysis Date **1/30/01 5:23:00 PM** Prep Date **1/26/01**
Client ID: **00291-A1** Run ID: **GC-ELVIS_010129A** SeqNo: **105411**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 896.6 | 61 | µg/Kg-dry | 1213 | 0 | 73.9 | 41 | 125 | 0 | | | |
| Aroclor 1260 | 1010 | 61 | µg/Kg-dry | 1213 | 206.9 | 66.2 | 39 | 120 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 14.9 | 0 | µg/Kg-dry | 19.42 | 0 | 76.7 | 43 | 117 | 0 | | | |
| Surr: Decachlorobiphenyl | 13.65 | 0 | µg/Kg-dry | 19.42 | 0 | 70.3 | 36 | 130 | 0 | | | |

Sample ID **0101218-06DMSD** Batch ID: **3691** Test Code: **SW8082** Units: **µg/Kg-dry** Analysis Date **1/30/01 5:50:00 PM** Prep Date **1/26/01**
Client ID: **00291-A1** Run ID: **GC-ELVIS_010129A** SeqNo: **105412**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1087 | 62 | µg/Kg-dry | 1240 | 0 | 87.6 | 41 | 125 | 896.6 | 19.2 | 50 | |
| Aroclor 1260 | 1193 | 62 | µg/Kg-dry | 1240 | 206.9 | 79.5 | 39 | 120 | 1010 | 16.6 | 50 | |
| Surr: Tetrachloro-m-xylene | 18.12 | 0 | µg/Kg-dry | 19.84 | 0 | 91.3 | 43 | 117 | 0 | 0 | 0 | |
| Surr: Decachlorobiphenyl | 16.28 | 0 | µg/Kg-dry | 19.84 | 0 | 82.1 | 36 | 130 | 0 | 0 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *05-Feb-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Laboratory Control Spike

Sample ID **LCS-3691** Batch ID: **3691** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **1/30/01 2:43:00 PM** Prep Date **1/26/01**

Client ID: Run ID: **GC-ELVIS_010129A** SeqNo: **105386**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 425.7 | 25 | µg/Kg | 500 | 0 | 85.1 | 60 | 118 | 0 | | | |
| Aroclor 1260 | 464.8 | 25 | µg/Kg | 500 | 0 | 93 | 61 | 125 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 7.095 | 0 | µg/Kg | 8 | 0 | 88.7 | 43 | 117 | 0 | | | |
| Surr: Decachlorobiphenyl | 7.912 | 0 | µg/Kg | 8 | 0 | 98.9 | 36 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN12.D\ECD1A.CH Vial: 12
Acq On : 29 Jan 2001 8:48 pm Operator: RAP
Sample : [0101218-01D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 6.22465
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN12.D\ECD2B.CH Vial: 12
Acq On : 29 Jan 2001 9:14 pm Operator: RAP
Sample : [0101218-01D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 6.22465
IntFile : autoint2.e
Quant Time: Jan 30 10:54 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.61 | 0 | 7.57 m | 11.02m |
| TCX | 16.000 Range | 43 - 117 | Recovery | = 47.30% | 68.90% |
| 2) SA Decachlorobiphen | 14.43 | 14.96 | 0 | 30.43 m | 43.69m |
| DCB | 16.000 Range | 36 - 130 | Recovery | = 190.00%# | 273.00%# |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 310.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 310.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 310.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 310.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 310.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 310.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 310.000 | 20X 126000.000 | 106000.000 |
| Average Aroclor-1262 | | | 310.000 | (200X) 0.000 | 0.000 |
| Average Aroclor-1268 | | | 310.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E29JAN12.D 01JAN26.M Tue Jan 30 16:31:22 2001 P2

RAP 01/30/01

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN12.D\ECD1A.CH Vial: 12
Acq On : 29 Jan 2001 8:48 pm Operator: RAP
Sample : [0101218-01D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN12.D\ECD2B.CH Vial: 12
Acq On : 29 Jan 2001 9:14 pm Operator: RAP
Sample : [0101218-01D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jan 30 10:54 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

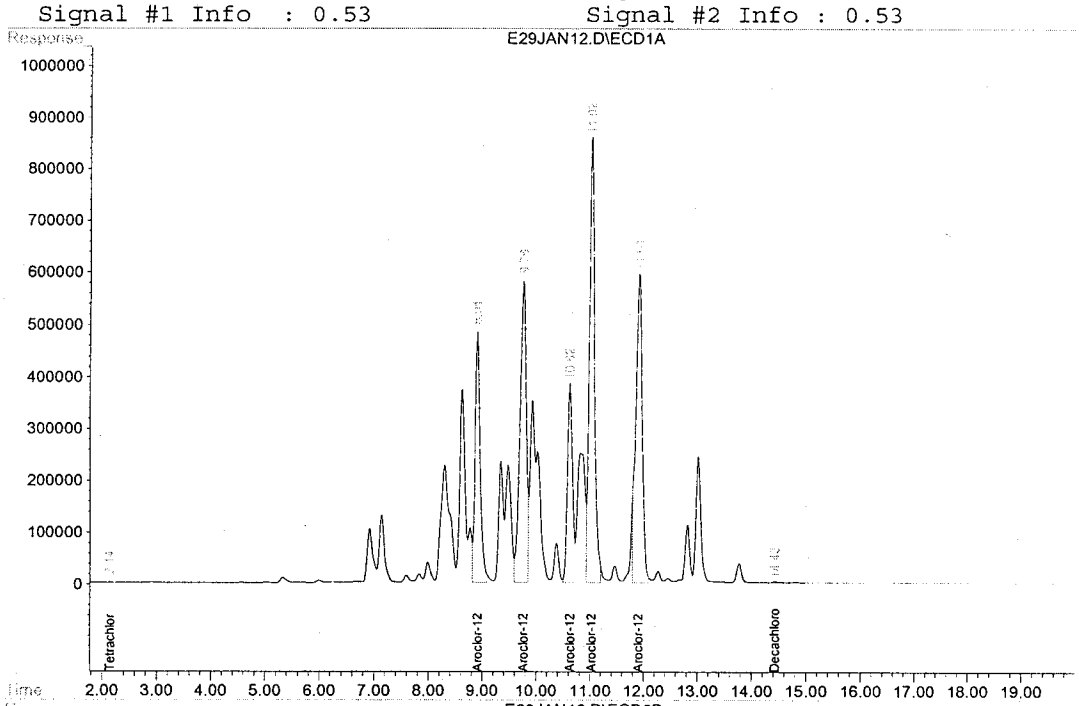
Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

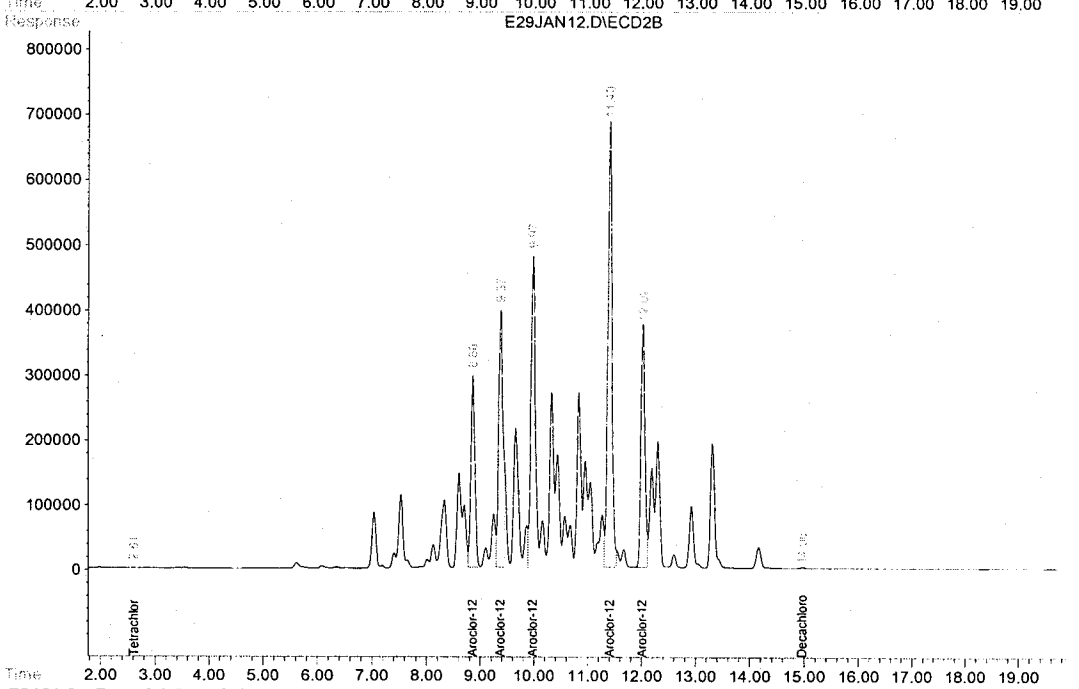
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.61 | 18033 | 23031 | 0.757m | | 1. |
| Spiked Amount 16.000 Range 43 - 117 Recovery = | | | | | 4.73%# | 6.89%# | |
| 2) SA Decachlorobiphen | 14.43 | 14.96 | 80171 | 98585 | 3.043m | | 4. |
| Spiked Amount 16.000 Range 36 - 130 Recovery = | | | | | 19.02%# | 27.31%# | |
| Target Compounds | | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 | |
| 30) L7 Aroclor-1260{1} | 8.91 | 8.85 | 32308968 | 15704424 | 16969.352m | | 1381 |
| 31) L7 Aroclor-1260{2} | 9.76 | 9.37 | 46799864 | 23234184 | 18370.892m | | 1549 |
| 32) L7 Aroclor-1260{3} | 10.63 | 9.97 | 24812424 | 27456272 | 18998.156m | | 1705 |
| 33) L7 Aroclor-1260{4} | 11.03 | 11.40 | 58443280 | 36979504 | 22173.929m | | 1890 |
| 34) L7 Aroclor-1260{5} | 11.91 | 12.01 | 48092464 | 20110576 | 24602.309m | | 1981 |
| Sum Aroclor-1260 | | | 210.5E6 | 123.5E6 | 101114.638 | 85072.913 | |
| Average Aroclor-1260 | | | | | 20222.928 | 17014.583 | |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN12.D\ECD1A.CH Vial: 12
Acq On    : 29 Jan 2001  8:48 pm                    Operator: RAP
Sample    : [0101218-01D] DF=10 {8082_S} PCB UG     Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.57G S=78.1         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN12.D\ECD2B.CH Vial: 12
Acq On    : 29 Jan 2001  9:14 pm                    Operator: RAP
Sample    : [0101218-01D] DF=10 {8082_S} PCB UG     Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.57G S=78.1         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 10:54 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase  : RTX-50          Signal #2 Phase: RTX-5
Signal #1 Info   : 0.53            Signal #2 Info : 0.53
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D\ECD1A.CH Vial: 5
Acq On : 30 Jan 2001 3:10 pm Operator: RAP
Sample : [0101218-01D] DF=200 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 124.49300
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D\ECD2B.CH Vial: 5
Acq On : 30 Jan 2001 3:37 pm Operator: RAP
Sample : [0101218-01D] DF=200 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 124.49300
IntFile : autoint2.e
Quant Time: Jan 30 16:02 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 6200.000 | 175000.000 | 174000.000 |
| Average Aroclor-1262 | | | 6200.000 | 0.000 | 0.000 |
| Average Aroclor-1268 | | | 6200.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E30JAN05.D 01JAN26.M Wed Jan 31 09:45:01 2001 P2

RAP 01/31/01

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D\ECD1A.CH Vial: 5
Acq On    : 30 Jan 2001  3:10 pm                    Operator: RAP
Sample    : [0101218-01D] DF=200 {8082_S} PCB UG    Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.57G S=78.1         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D\ECD2B.CH Vial: 5
Acq On    : 30 Jan 2001  3:37 pm                    Operator: RAP
Sample    : [0101218-01D] DF=200 {8082_S} PCB UG    Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.57G S=78.1         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 16:02 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.     : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 |
| 30) L7 Aroclor-1260{1} | 8.92 | 8.87 | 2632856 | 1437976 | 1382.832m | 1264. |
| 31) L7 Aroclor-1260{2} | 9.77 | 9.39 | 3605352 | 2082784 | 1415.251m | 1389. |
| 32) L7 Aroclor-1260{3} | 10.64 | 9.99 | 1796784 | 2301552 | 1375.746m | 1429. |
| 33) L7 Aroclor-1260{4} | 11.04 | 11.40 | 3938008 | 2824416 | 1494.117m | 1443. |
| 34) L7 Aroclor-1260{5} | 11.92 | 12.03 | 2673184 | 1493792 | 1367.501m | 1471. |
| Sum Aroclor-1260 | | | 14646184 | 10140520 | 7035.446 | 6998.412 |
| Average Aroclor-1260 | | | | | 1407.089 | 1399.682 |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 |

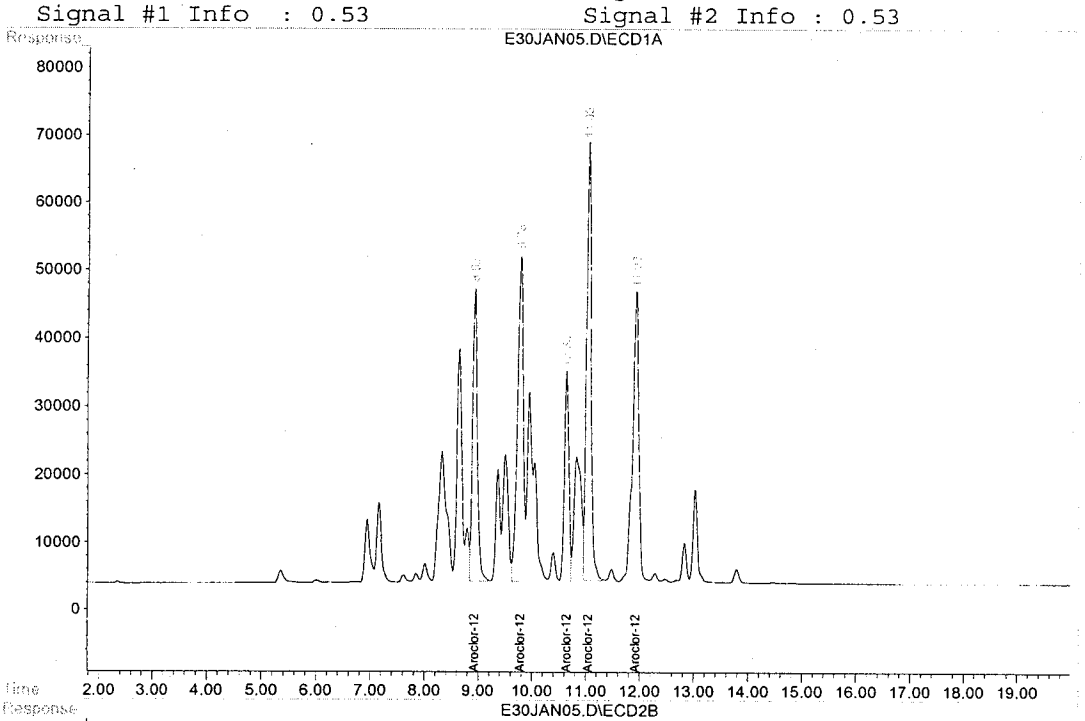
Quantitation Report

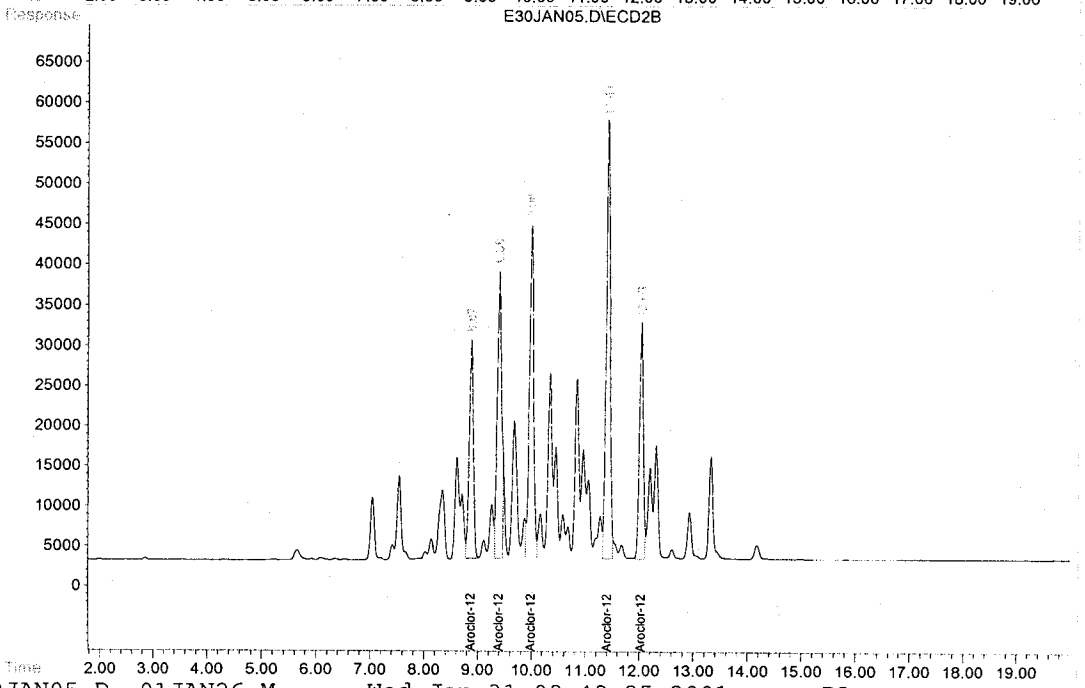
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D\ECD1A.CH Vial: 5
Acq On : 30 Jan 2001 3:10 pm Operator: RAP
Sample : [0101218-01D] DF=200 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D\ECD2B.CH Vial: 5
Acq On : 30 Jan 2001 3:37 pm Operator: RAP
Sample : [0101218-01D] DF=200 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.57G S=78.1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jan 30 16:02 2001 Quant Results File: 01JAN26.RES

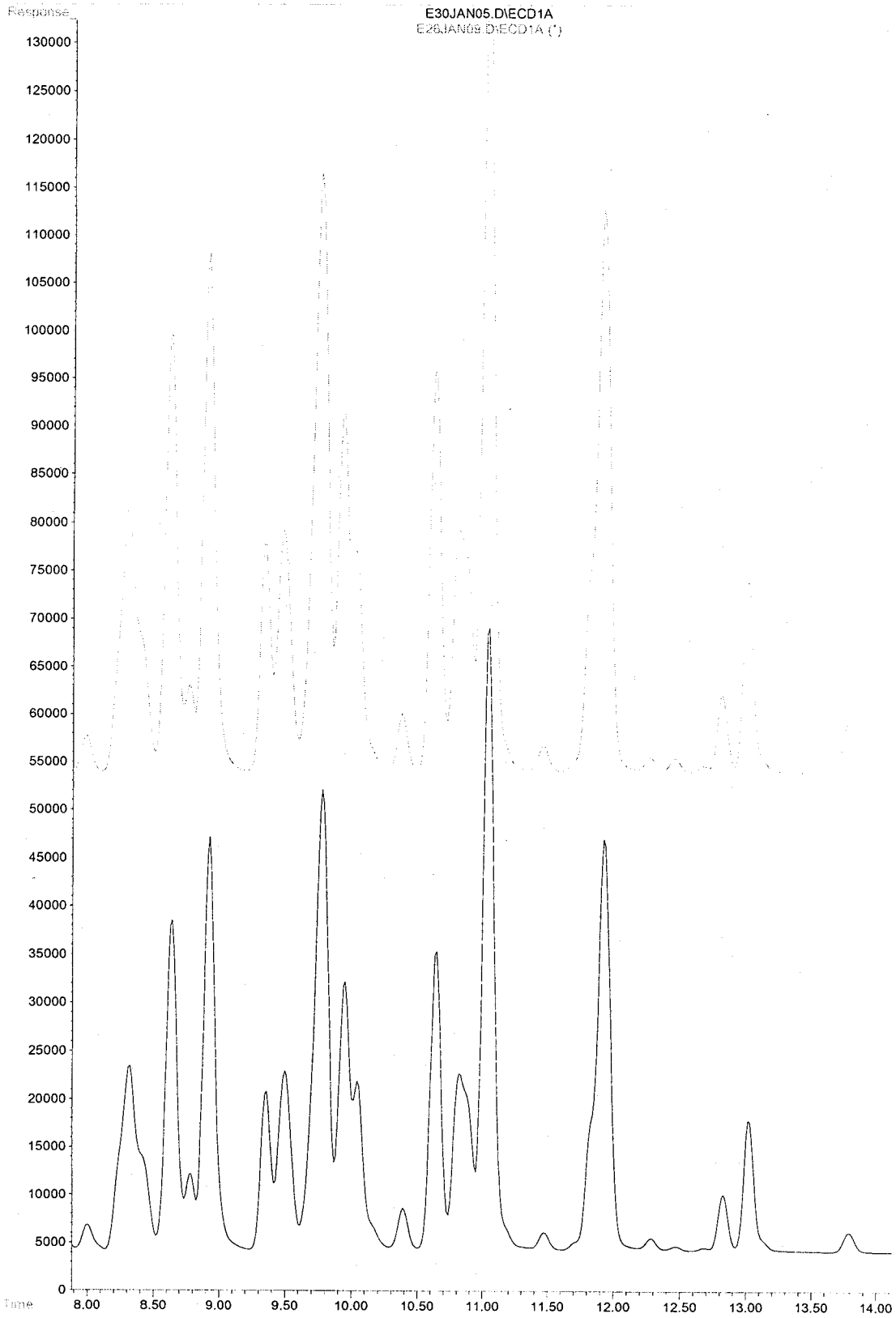
Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

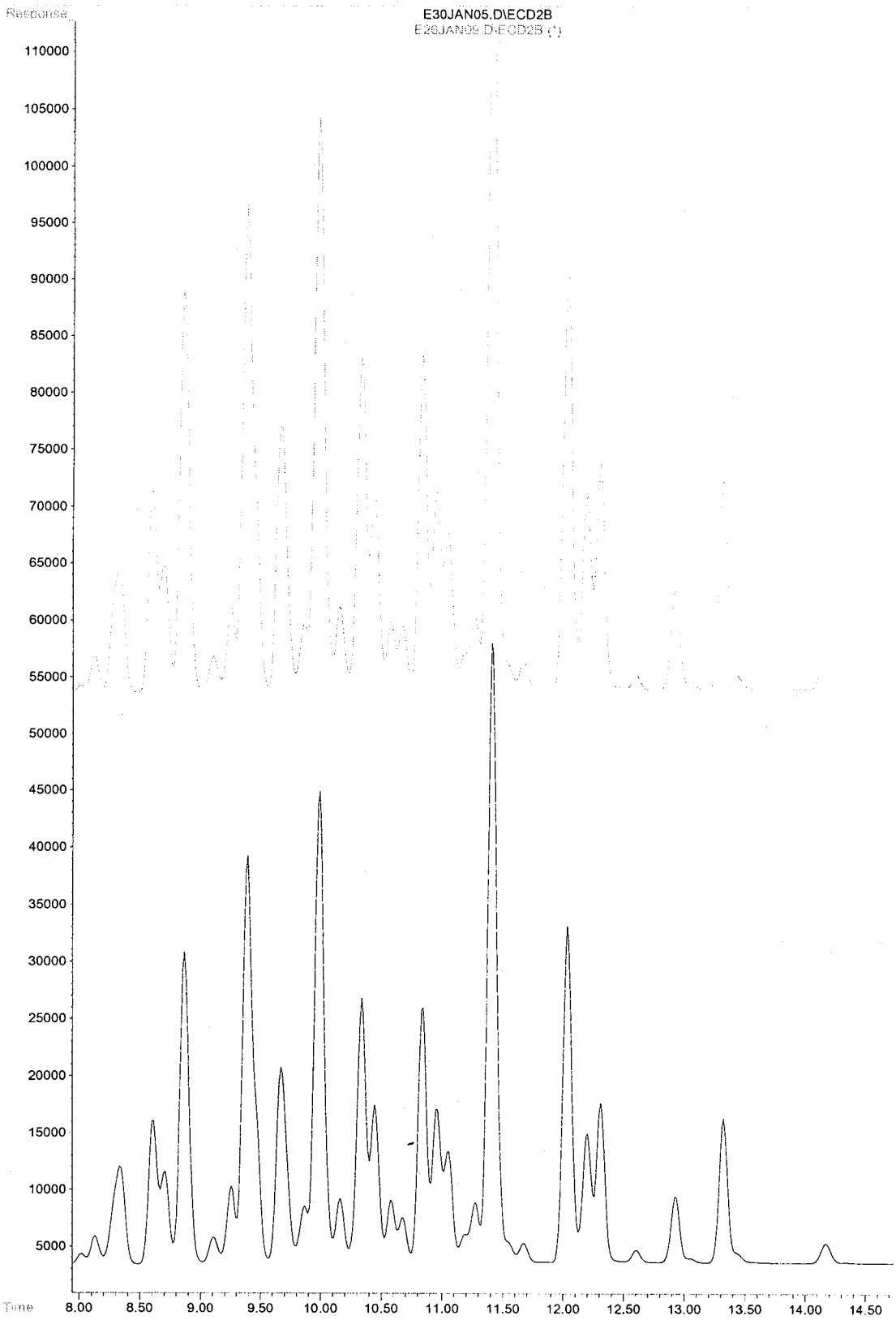


```
File        : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D
Operator    : RAP
Acquired    : 30 Jan 101   3:10 pm using AcqMethod QQDUAL3.M
Instrument :   ELVIS
Sample Name: [0101218-01D] DF=200 {8082_S} PCB UG
Misc Info   : SOIL FV=10ML SAMP=20.57G S=78.1
Vial Number: 5
```



```
File        : C:\HPCHEM\1\DATA\01JAN30\E30JAN05.D
Operator    : RAP
Acquired    : 30 Jan 101   3:10 pm using AcqMethod QQDUAL3.M
Instrument  :   ELVIS
Sample Name: [0101218-01D] DF=200 {8082_S} PCB UG
Misc Info   : SOIL FV=10ML SAMP=20.57G S=78.1
Vial Number: 5
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN13.D\ECD1A.CH Vial: 13
Acq On : 29 Jan 2001 9:14 pm Operator: RAP
Sample : [0101218-02D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.34G S=86.3 Multiplr: 5.69690
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN13.D\ECD2B.CH Vial: 13
Acq On : 29 Jan 2001 9:41 pm Operator: RAP
Sample : [0101218-02D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.34G S=86.3 Multiplr: 5.69690
IntFile : autoint2.e
Quant Time: Jan 30 10:58 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.61 | 0 | 11.69 m | 11.48m |
| TCX | 16.000 Range | 43 - 117 | Recovery | = 73.10% | 71.80% |
| 2) SA Decachlorobiphen | 14.43 | 14.95 | 0 | 21.08 m | 29.43m |
| DCB | 16.000 Range | 36 - 130 | Recovery | = 132.00%# | 184.00%# |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 280.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 280.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 280.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 280.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 280.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 280.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 280.000 | 20X 149000.000 | 122000.000 |
| Average Aroclor-1262 | | | 280.000 | (200X) 0.000 | 0.000 |
| Average Aroclor-1268 | | | 280.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E29JAN13.D 01JAN26.M Tue Jan 30 16:31:36 2001 P2

RAP 01/30/01

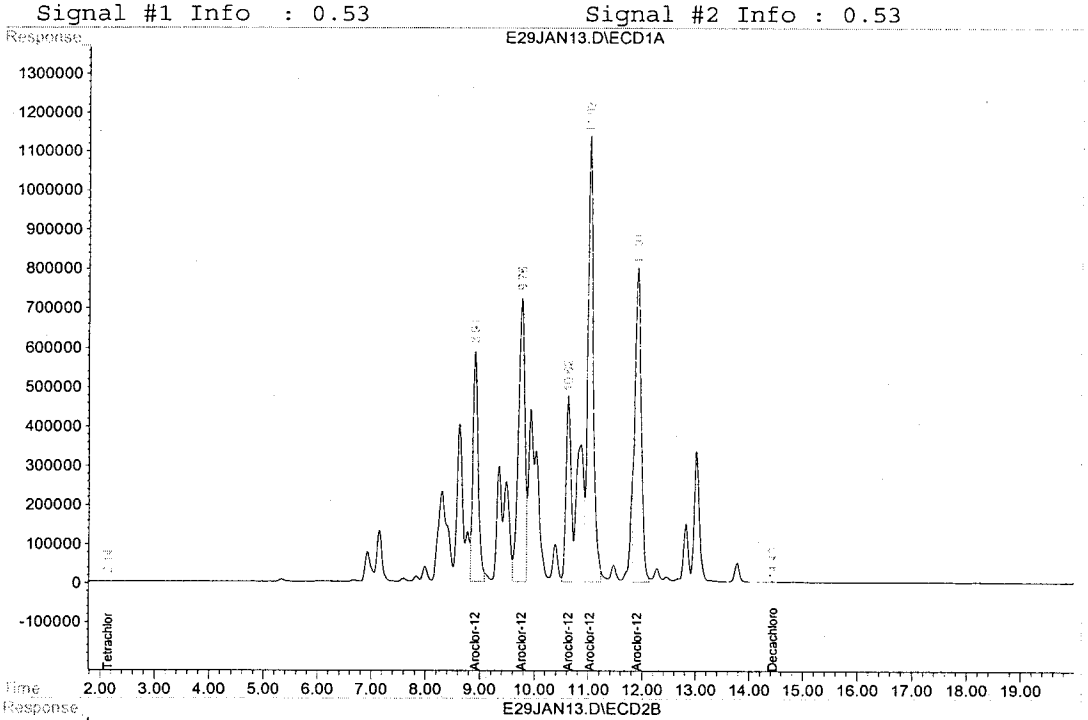
Quantitation Report (QT Reviewed)

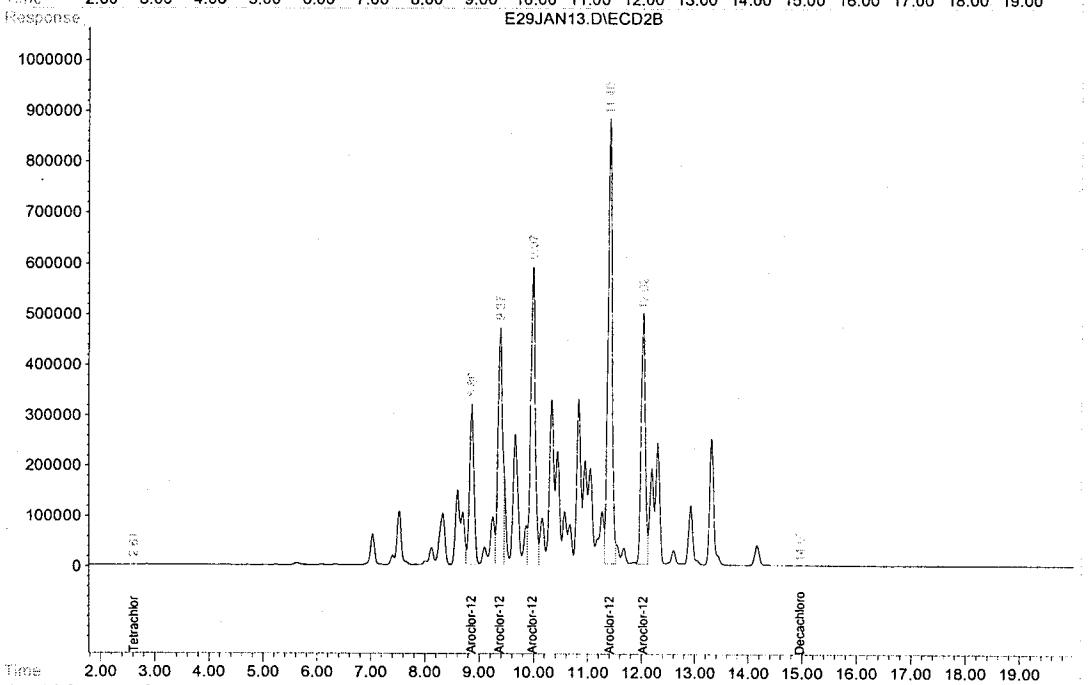
```
Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN13.D\ECD1A.CH Vial: 13
Acq On    : 29 Jan 2001  9:14 pm                    Operator: RAP
Sample    : [0101218-02D] DF=10 {8082_S} PCB UG     Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN13.D\ECD2B.CH Vial: 13
Acq On    : 29 Jan 2001  9:41 pm                    Operator: RAP
Sample    : [0101218-02D] DF=10 {8082_S} PCB UG     Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 10:58 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.61 | 27822 | 24000 | 1.169m | | 1. |
| Spiked Amount 16.000 Range 43 - 117 Recovery = | | | | | 7.31%# | 7.18%# | |
| 2) SA Decachlorobiphen | 14.43 | 14.95 | 55525 | 66399 | 2.108m | | 2. |
| Spiked Amount 16.000 Range 36 - 130 Recovery = | | | | | 13.18%# | 18.39%# | |
| Target Compounds | | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 | |
| 30) L7 Aroclor-1260{1} | 8.91 | 8.85 | 39172048 | 17909056 | 20573.987m | | 1574 |
| 31) L7 Aroclor-1260{2} | 9.76 | 9.37 | 59113640 | 27778960 | 23204.561m | | 1852 |
| 32) L7 Aroclor-1260{3} | 10.63 | 9.97 | 31354072 | 34664936 | 24006.907m | | 2152 |
| 33) L7 Aroclor-1260{4} | 11.03 | 11.40 | 81328672 | 47736544 | 30856.862m | | 2439 |
| 34) L7 Aroclor-1260{5} | 11.91 | 12.03 | 63239976 | 27549736 | 32351.210m | | 2714 |
| Sum Aroclor-1260 | | | 274.2E6 | 155.6E6 | 130993.526 | 107347.152 | |
| Average Aroclor-1260 | | | | | 26198.705 | 21469.430 | |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 | |

Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN13.D\ECD1A.CH Vial: 13
Acq On    : 29 Jan 2001  9:14 pm                    Operator: RAP
Sample    : [0101218-02D] DF=10 {8082_S} PCB UG     Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN13.D\ECD2B.CH Vial: 13
Acq On    : 29 Jan 2001  9:41 pm                    Operator: RAP
Sample    : [0101218-02D] DF=10 {8082_S} PCB UG     Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 10:58 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase  : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info   : 0.53              Signal #2 Info : 0.53
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D\ECD1A.CH Vial: 6
Acq On : 30 Jan 2001 3:37 pm Operator: RAP
Sample : [0101218-02D] DF=200 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.34G S=86.3 Multiplr: 113.93800
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D\ECD2B.CH Vial: 6
Acq On : 30 Jan 2001 4:03 pm Operator: RAP
Sample : [0101218-02D] DF=200 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.34G S=86.3 Multiplr: 113.93800
IntFile : autoint2.e
Quant Time: Jan 30 16:28 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 5700.000 | 188000.000 | 186000.000 |
| Average Aroclor-1262 | | | 5700.000 | 0.000 | 0.000 |
| Average Aroclor-1268 | | | 5700.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E30JAN06.D 01JAN26.M Wed Jan 31 09:45:14 2001 P2

RAP 01/31/01

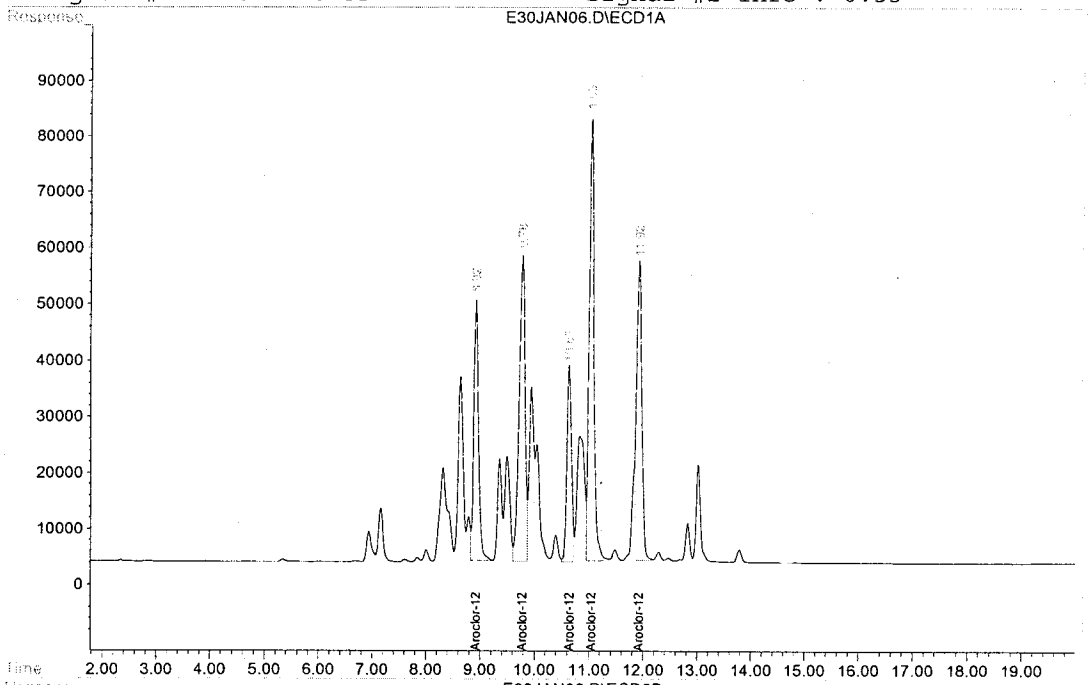
Quantitation Report (QT Reviewed)

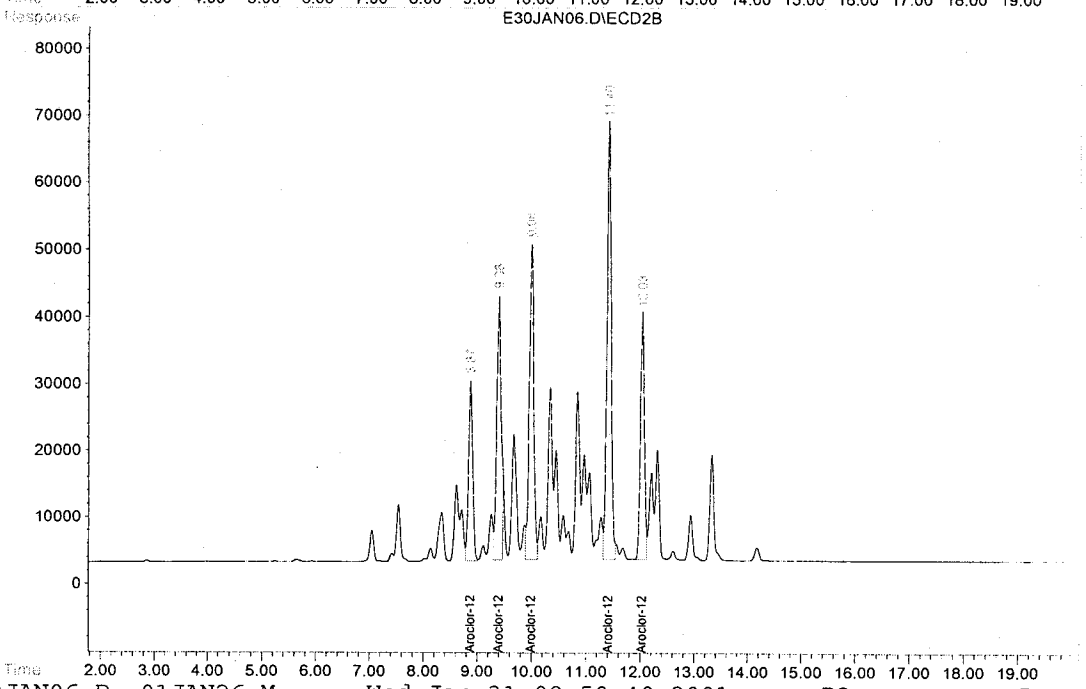
```
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D\ECD1A.CH Vial: 6
Acq On    : 30 Jan 2001  3:37 pm                    Operator: RAP
Sample    : [0101218-02D] DF=200 {8082_S} PCB UG    Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D\ECD2B.CH Vial: 6
Acq On    : 30 Jan 2001  4:03 pm                    Operator: RAP
Sample    : [0101218-02D] DF=200 {8082_S} PCB UG    Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 16:28 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.     : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 |
| 30) L7 Aroclor-1260{1} | 8.92 | 8.87 | 2853504 | 1458632 | 1498.721m | 1282. |
| 31) L7 Aroclor-1260{2} | 9.77 | 9.39 | 4107056 | 2318928 | 1612.190m | 1546. |
| 32) L7 Aroclor-1260{3} | 10.64 | 9.99 | 2050456 | 2654760 | 1569.975m | 1648. |
| 33) L7 Aroclor-1260{4} | 11.04 | 11.40 | 4884976 | 3467736 | 1853.406m | 1772. |
| 34) L7 Aroclor-1260{5} | 11.92 | 12.03 | 3373992 | 1919800 | 1726.008m | 1891. |
| Sum Aroclor-1260 | | | 17269984 | 11819856 | 8260.300 | 8141.962 |
| Average Aroclor-1260 | | | | | 1652.060 | 1628.392 |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 |

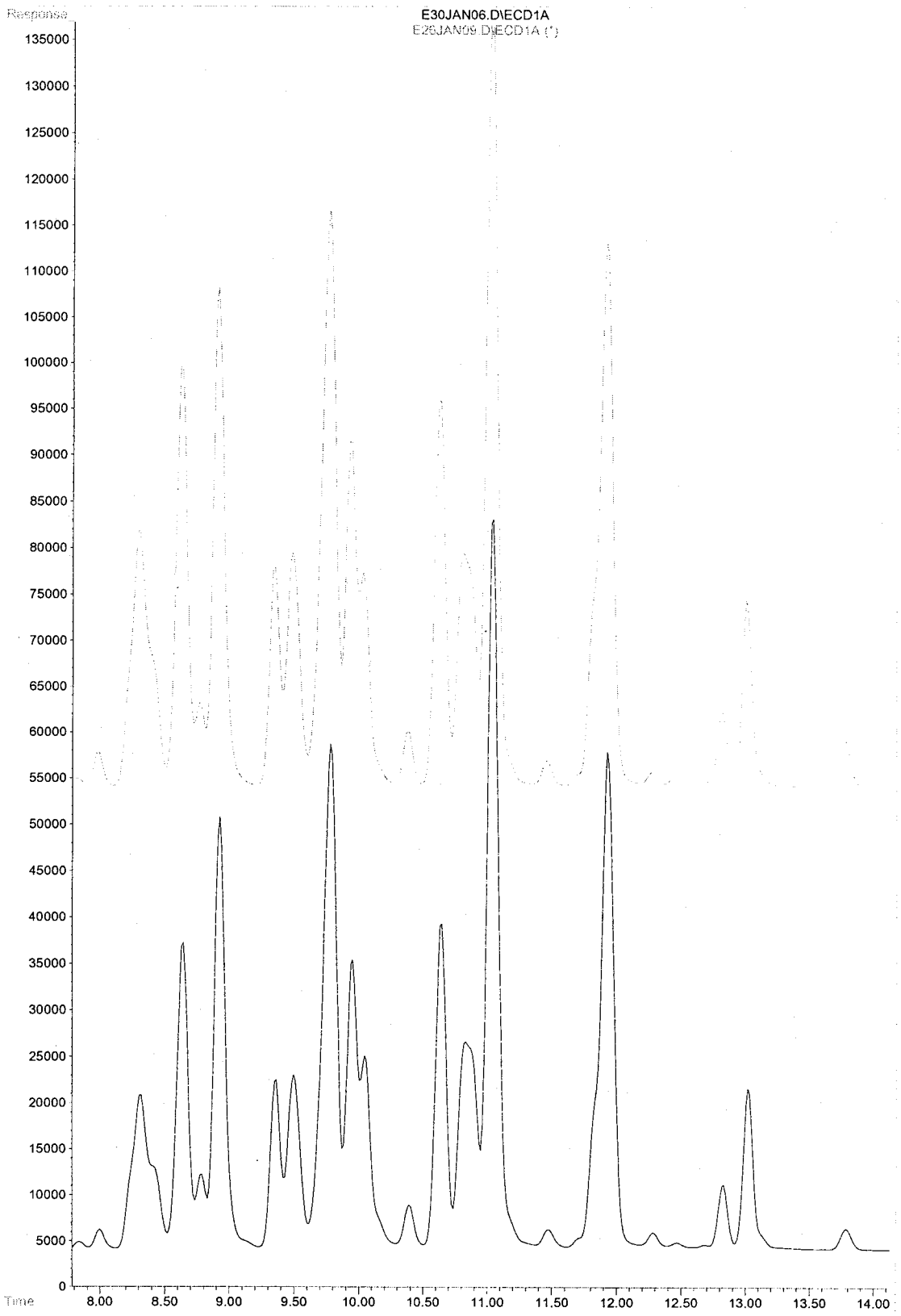
Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D\ECD1A.CH Vial: 6
Acq On    : 30 Jan 2001  3:37 pm                    Operator: RAP
Sample    : [0101218-02D] DF=200 {8082_S} PCB UG    Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D\ECD2B.CH Vial: 6
Acq On    : 30 Jan 2001  4:03 pm                    Operator: RAP
Sample    : [0101218-02D] DF=200 {8082_S} PCB UG    Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.34G S=86.3         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 16:28 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

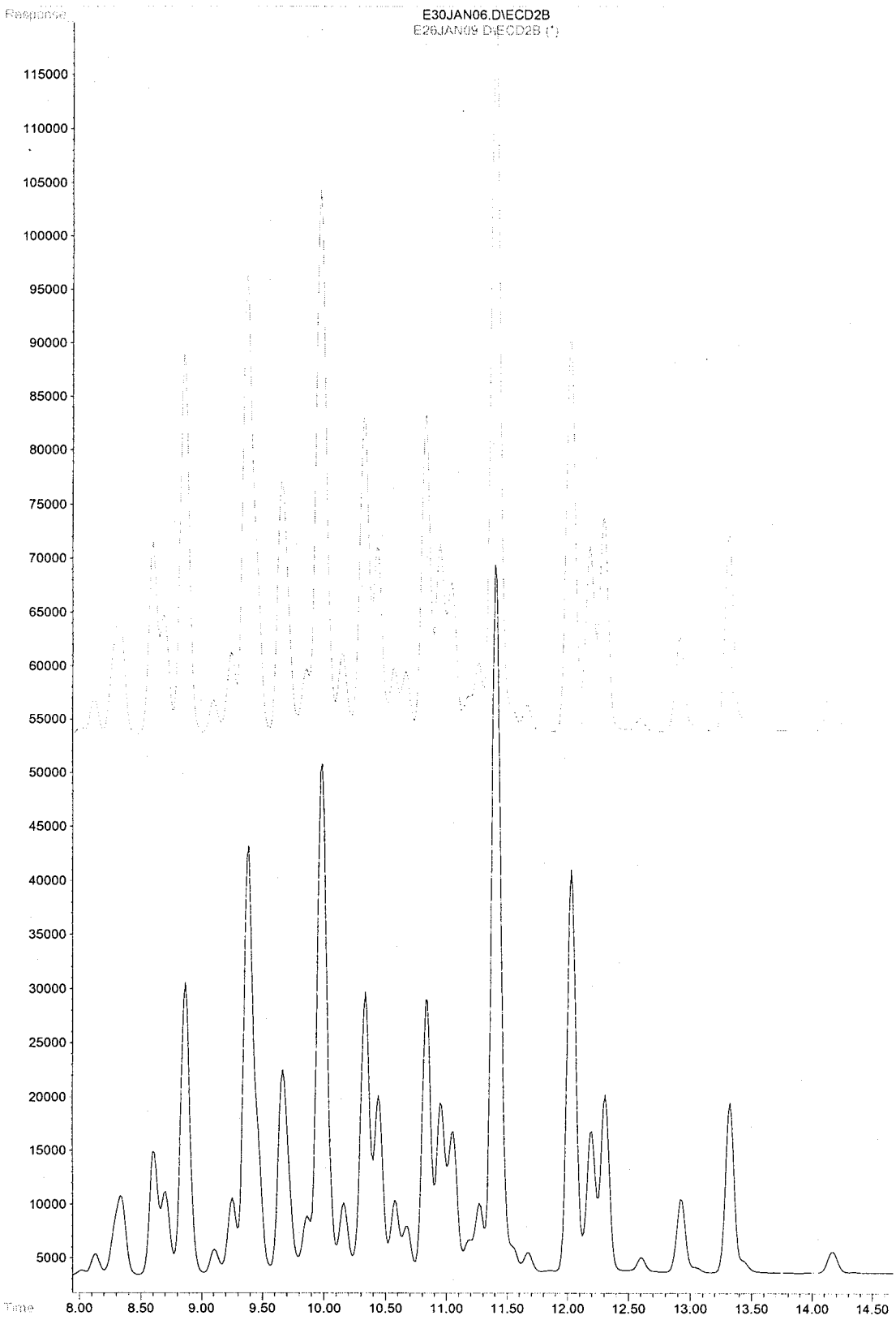


File : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D
Operator : RAP
Acquired : 30 Jan 101 3:37 pm using AcqMethod QQDUAL3.M
Instrument : ELVIS
Sample Name: [0101218-02D] DF=200 {8082_S} PCB UG
Misc Info : SOIL FV=10ML SAMP=20.34G S=86.3
Vial Number: 6



```
File        : C:\HPCHEM\1\DATA\01JAN30\E30JAN06.D
Operator    : RAP
Acquired    : 30 Jan 101   3:37 pm using AcqMethod QQDUAL3.M
Instrument  :   ELVIS
Sample Name: [0101218-02D] DF=200 {8082_S} PCB UG
Misc Info   : SOIL FV=10ML SAMP=20.34G S=86.3
Vial Number: 6
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D\ECD1A.CH Vial: 7
Acq On : 30 Jan 2001 4:03 pm Operator: RAP
Sample : [0101218-03D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.15G S=34.7 Multiplr: 1.43020
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D\ECD2B.CH Vial: 7
Acq On : 30 Jan 2001 4:30 pm Operator: RAP
Sample : [0101218-03D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.15G S=34.7 Multiplr: 1.43020
IntFile : autoint2.e
Quant Time: Jan 30 16:58 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.62 | 0 | 5.01 m | 4.789m |
| TCX | 16.000 Range | 43 - 117 | Recovery | = 31.30%# | 29.90%# |
| 2) SA Decachlorobiphen | 14.44 | 14.97 | 0 | 5.826 m | 5.989m |
| DCB | 16.000 Range | 36 - 130 | Recovery | = 36.40% | 37.40% |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 72.000 | 138.000 | 141.000 |
| Average Aroclor-1262 | | | 72.000 | 0.000 | 0.000 |
| Average Aroclor-1268 | | | 72.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E30JAN07.D 01JAN26.M Wed Jan 31 09:45:28 2001 P2

RAP 01/31/01

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D\ECD1A.CH Vial: 7
Acq On : 30 Jan 2001 4:03 pm Operator: RAP
Sample : [0101218-03D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.15G S=34.7 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D\ECD2B.CH Vial: 7
Acq On : 30 Jan 2001 4:30 pm Operator: RAP
Sample : [0101218-03D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.15G S=34.7 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jan 30 16:58 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

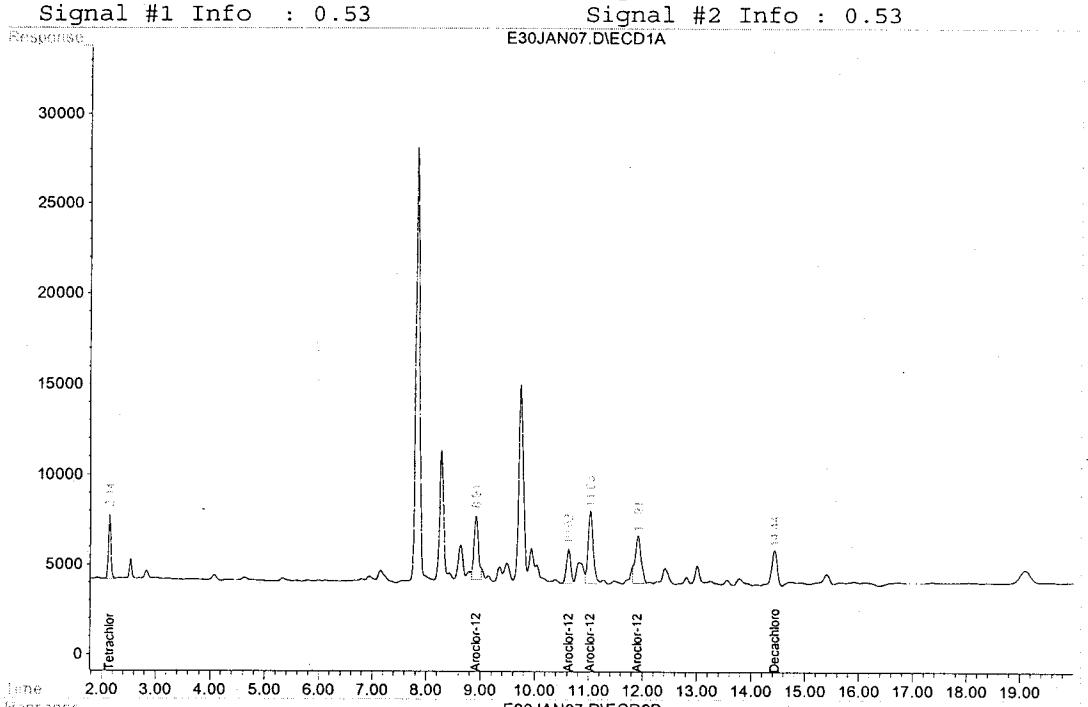
Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

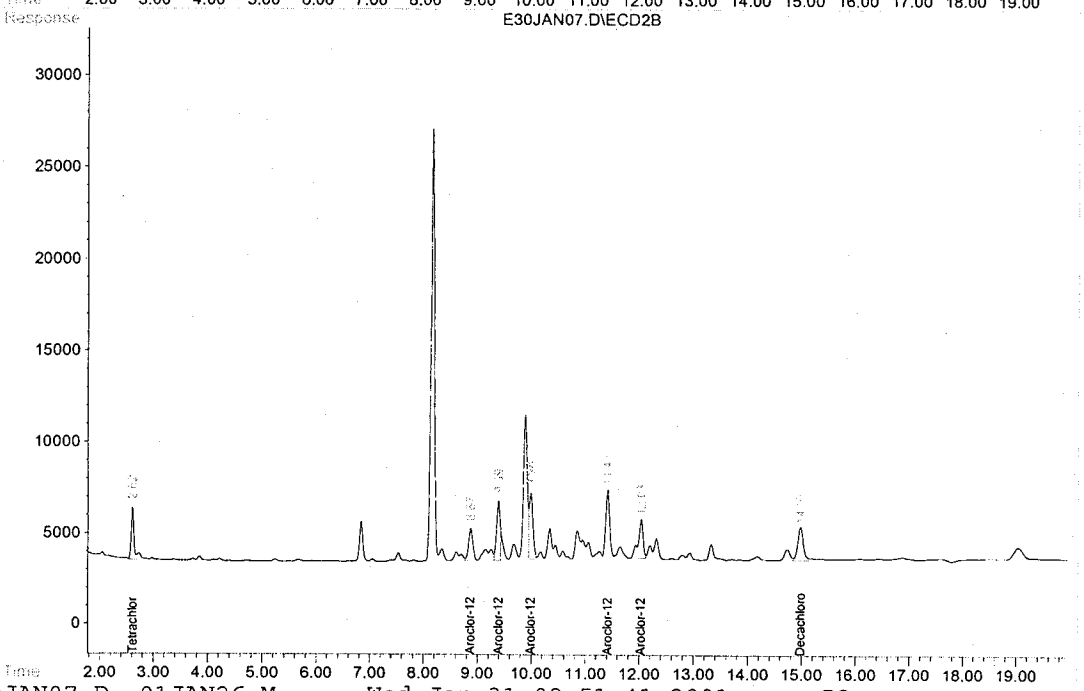
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.62 | 119279 | 100083 | 5.010m | | 4. |
| Spiked Amount 16.000 Range 43 - 117 Recovery = | | | | | 31.31%# | 29.93%# | |
| 2) SA Decachlorobiphen | 14.44 | 14.97 | 153480 | 135127 | 5.826m | | 5. |
| Spiked Amount 16.000 Range 36 - 130 Recovery = | | | | | 36.41% | 37.43% | |
| Target Compounds | | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 | |
| 30) L7 Aroclor-1260{1} | 8.91 | 8.87 | 207008 | 98120 | 108.725m | | 86. |
| 31) L7 Aroclor-1260{2} | 0.00 | 9.39 | 0 | 152096 | N.D. d | | 101. |
| 32) L7 Aroclor-1260{3} | 10.63 | 9.99 | 106160 | 160568 | 81.284m | | 99. |
| 33) L7 Aroclor-1260{4} | 11.03 | 11.41 | 258112 | 193552 | 97.930m | | 98. |
| 34) L7 Aroclor-1260{5} | 11.91 | 12.03 | 193272 | 109432 | 98.871m | | 107. |
| Sum Aroclor-1260 | | | 764552 | 713768 | 386.809 | 494.193 | |
| Average Aroclor-1260 | | | | | 96.702 | 98.839 | |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

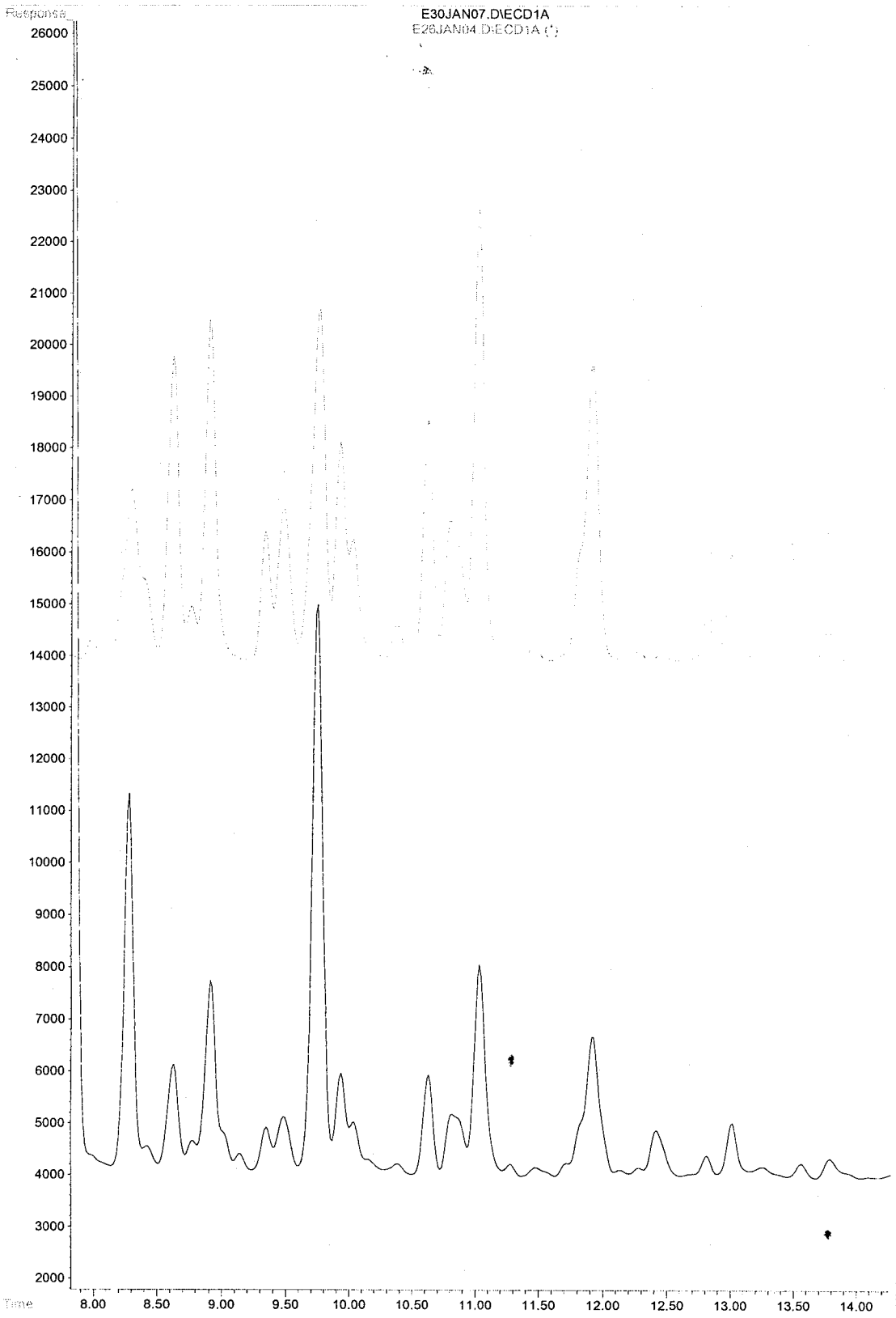
Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D\ECD1A.CH Vial: 7
Acq On    : 30 Jan 2001  4:03 pm                    Operator: RAP
Sample    : [0101218-03D] DF=1 {8082_S} PCB UG      Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.15G S=34.7         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D\ECD2B.CH Vial: 7
Acq On    : 30 Jan 2001  4:30 pm                    Operator: RAP
Sample    : [0101218-03D] DF=1 {8082_S} PCB UG      Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.15G S=34.7         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 16:58 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase  : RTX-50          Signal #2 Phase: RTX-5
Signal #1 Info   : 0.53            Signal #2 Info : 0.53
```

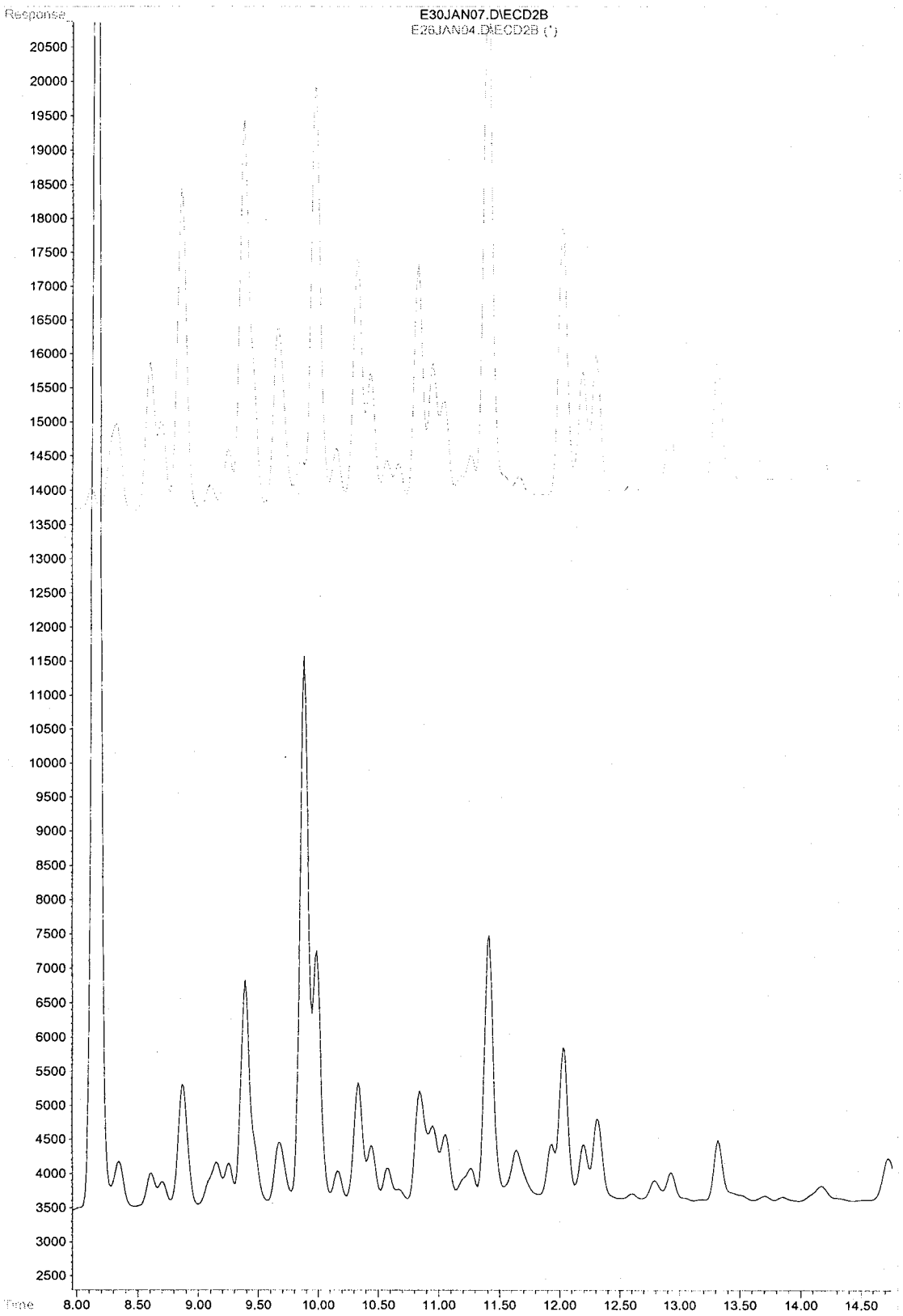


File : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D
Operator : RAP
Acquired : 30 Jan 101 4:03 pm using AcqMethod QQDUAL3.M
Instrument : ELVIS
Sample Name: [0101218-03D] DF=1 {8082_S} PCB UG
Misc Info : SOIL FV=10ML SAMP=20.15G S=34.7
Vial Number: 7



```
File        : C:\HPCHEM\1\DATA\01JAN30\E30JAN07.D
Operator    : RAP
Acquired    : 30 Jan 101   4:03 pm using AcqMethod QQDUAL3.M
Instrument  :   ELVIS
Sample Name: [0101218-03D] DF=1 {8082_S} PCB UG
Misc Info   : SOIL FV=10ML SAMP=20.15G S=34.7
Vial Number: 7
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D\ECD1A.CH Vial: 8
Acq On : 30 Jan 2001 4:30 pm Operator: RAP
Sample : [0101218-04D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.04G S=32.0 Multiplr: 1.55938
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D\ECD2B.CH Vial: 8
Acq On : 30 Jan 2001 4:57 pm Operator: RAP
Sample : [0101218-04D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.04G S=32.0 Multiplr: 1.55938
IntFile : autoint2.e
Quant Time: Jan 31 9:33 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.62 | 0 | 6.962 m | 6.925m |
| TCX | 16.000 Range 43 - 117 | | Recovery | = 43.50% | 43.30% |
| 2) SA Decachlorobiphen | 14.44 | 14.97 | 0 | 7.135 m | 7.527m |
| DCB | 16.000 Range 36 - 130 | | Recovery | = 44.60% | 47.00% |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 78.000 | 246.000 | 257.000 |
| Average Aroclor-1262 | | | 78.000 | 0.000 | 0.000 |
| Average Aroclor-1268 | | | 78.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E30JAN08.D 01JAN26.M Wed Jan 31 09:45:42 2001 P2

RAP 01/31/01

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D\ECD1A.CH Vial: 8
Acq On    : 30 Jan 2001  4:30 pm                    Operator: RAP
Sample    : [0101218-04D] DF=1 {8082_S} PCB UG      Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.04G S=32.0         Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D\ECD2B.CH Vial: 8
Acq On    : 30 Jan 2001  4:57 pm                    Operator: RAP
Sample    : [0101218-04D] DF=1 {8082_S} PCB UG      Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.04G S=32.0         Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 31  9:33 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.     : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.62 | 165738 | 144713 | 6.962m | | 6. |
| Spiked Amount 16.000 Range 43 - 117 Recovery = 43.51% 43.28% | | | | | | | |
| 2) SA Decachlorobiphen | 14.44 | 14.97 | 187971 | 169840 | 7.135m | | 7. |
| Spiked Amount 16.000 Range 36 - 130 Recovery = 44.59% 47.04% | | | | | | | |
| Target Compounds | | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 | |
| 30) L7 Aroclor-1260{1} | 8.91 | 8.87 | 319472 | 162592 | 167.793m | | 142. |
| 31) L7 Aroclor-1260{2} | 0.00 | 9.39 | 0 | 259896 | N.D. d | | 173. |
| 32) L7 Aroclor-1260{3} | 10.63 | 9.99 | 182096 | 288216 | 139.426m | | 178. |
| 33) L7 Aroclor-1260{4} | 11.03 | 11.41 | 489176 | 314336 | 185.598m | | 160. |
| 34) L7 Aroclor-1260{5} | 11.91 | 12.03 | 269832 | 171072 | 138.036m | | 168. |
| Sum Aroclor-1260 | | | 1260576 | 1196112 | 630.853 | 824.529 | |
| Average Aroclor-1260 | | | | | 157.713 | 164.906 | |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 | |

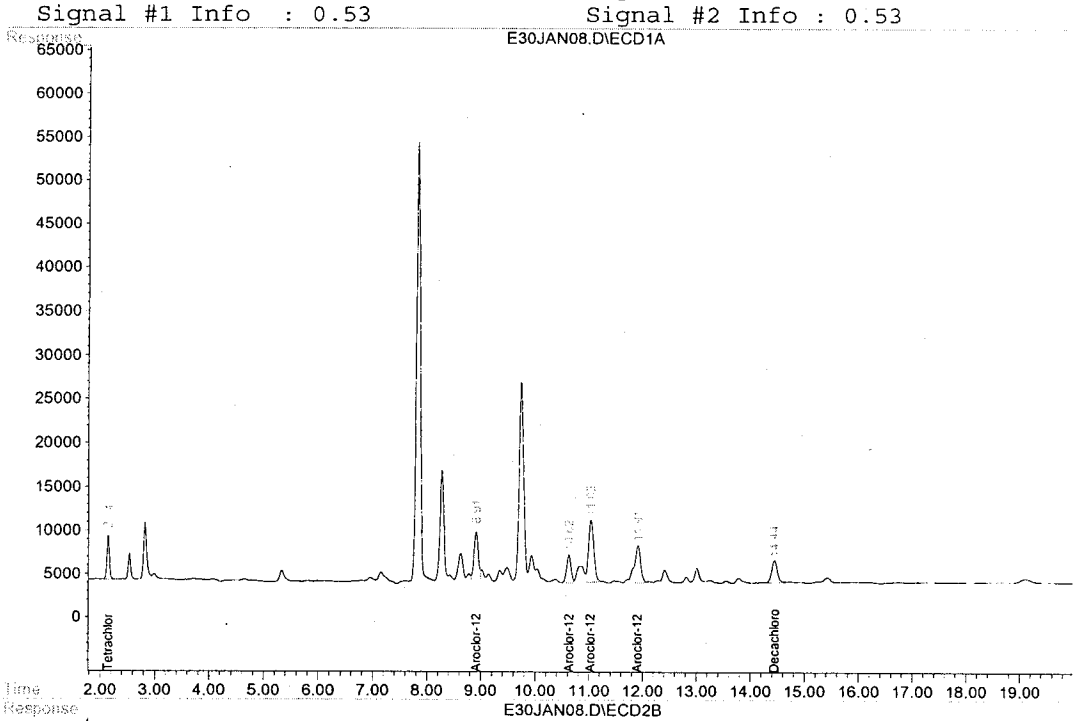
Quantitation Report

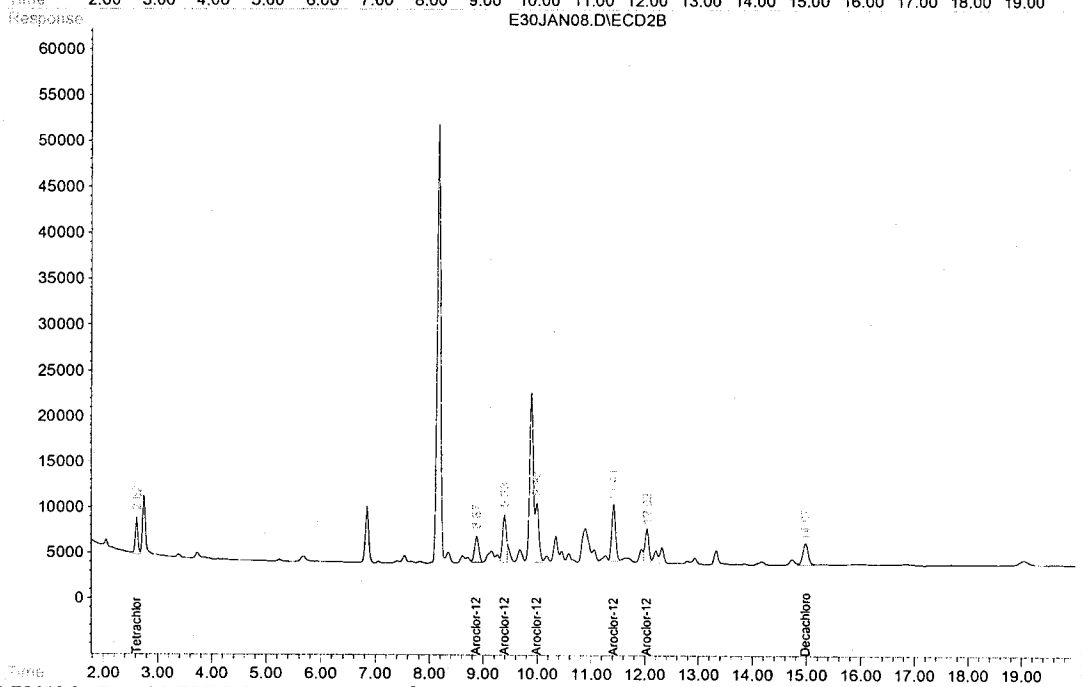
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D\ECD1A.CH Vial: 8
Acq On : 30 Jan 2001 4:30 pm Operator: RAP
Sample : [0101218-04D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.04G S=32.0 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D\ECD2B.CH Vial: 8
Acq On : 30 Jan 2001 4:57 pm Operator: RAP
Sample : [0101218-04D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.04G S=32.0 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jan 31 9:33 2001 Quant Results File: 01JAN26.RES

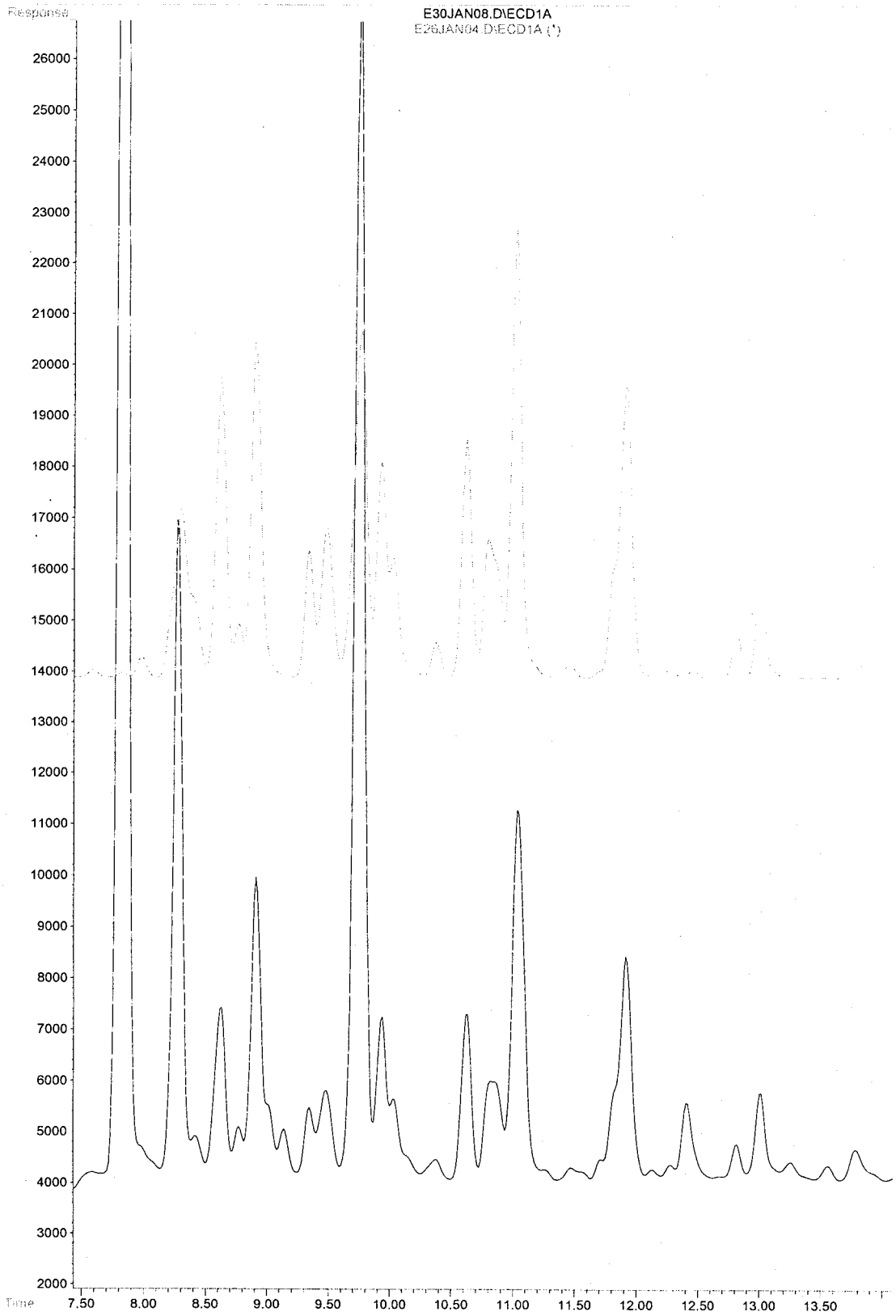
Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

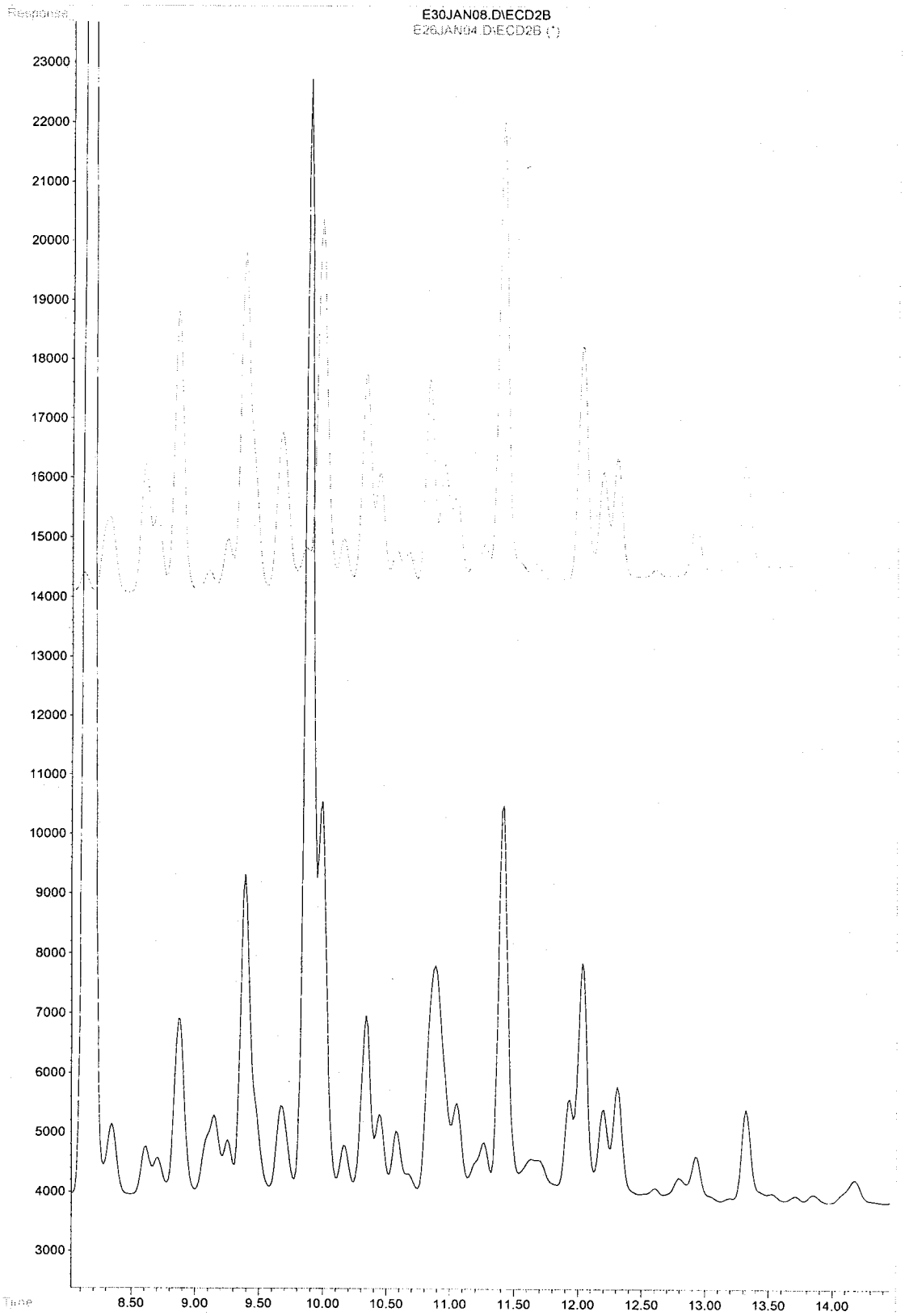


File : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D
Operator : RAP
Acquired : 30 Jan 101 4:30 pm using AcqMethod QQDUAL3.M
Instrument : ELVIS
Sample Name: [0101218-04D] DF=1 {8082_S} PCB UG
Misc Info : SOIL FV=10ML SAMP=20.04G S=32.0
Vial Number: 8



```
File        : C:\HPCHEM\1\DATA\01JAN30\E30JAN08.D
Operator    : RAP
Acquired    : 30 Jan 101   4:30 pm using AcqMethod QQDUAL3.M
Instrument  :   ELVIS
Sample Name: [0101218-04D] DF=1 {8082_S} PCB UG
Misc Info   : SOIL FV=10ML SAMP=20.04G S=32.0
Vial Number: 8
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D\ECD1A.CH Vial: 16
Acq On : 29 Jan 2001 10:34 pm Operator: RAP
Sample : [0101218-05D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.80G S=80.6 Multiplr: 5.96488
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D\ECD2B.CH Vial: 16
Acq On : 29 Jan 2001 11:01 pm Operator: RAP
Sample : [0101218-05D] DF=10 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.80G S=80.6 Multiplr: 5.96488
IntFile : autoint2.e
Quant Time: Jan 30 11:03 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.61 | 0 | 13 m | 12.21m |
| TCX | 16.000 Range | 43 - 117 | Recovery | = 81.20% | 76.30% |
| 2) SA Decachlorobiphen | 14.43 | 14.96 | 0 | 19.12 m | 19.66m |
| DCB | 16.000 Range | 36 - 130 | Recovery | = 120.00% | 123.00% |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 300.000 | 2310.000 | 2760.000 |
| Average Aroclor-1262 | | | 300.000 | 0.000 | 0.000 |
| Average Aroclor-1268 | | | 300.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E29JAN16.D 01JAN26.M Tue Jan 30 16:31:51 2001 P2

RAP 01/30/01

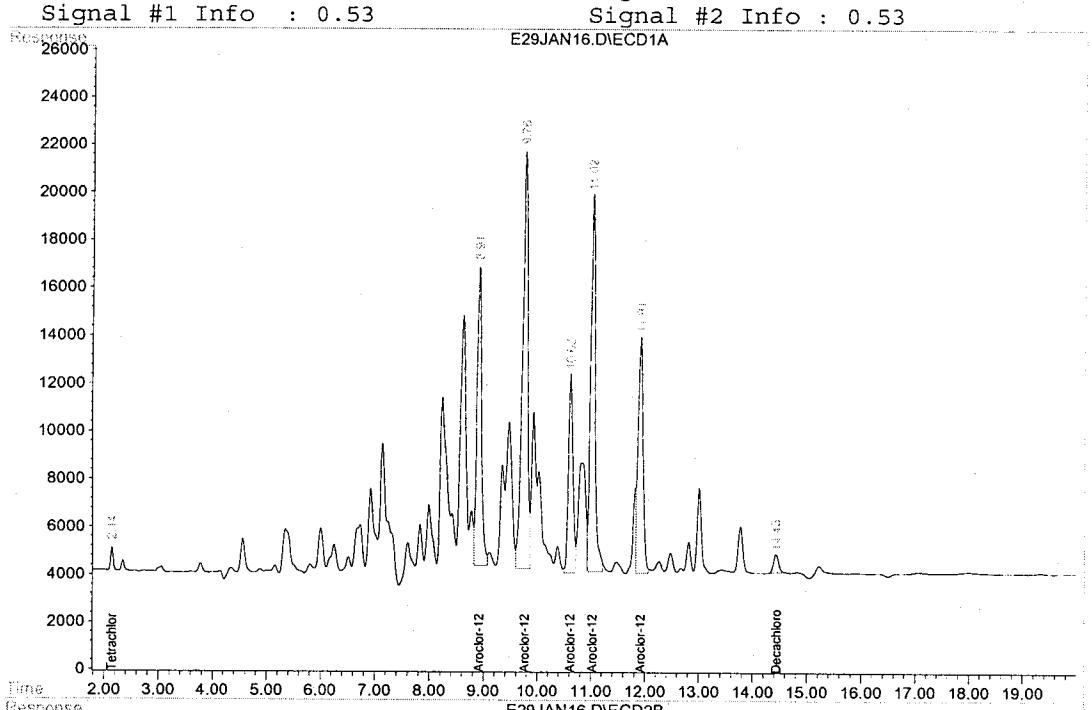
Quantitation Report (QT Reviewed)

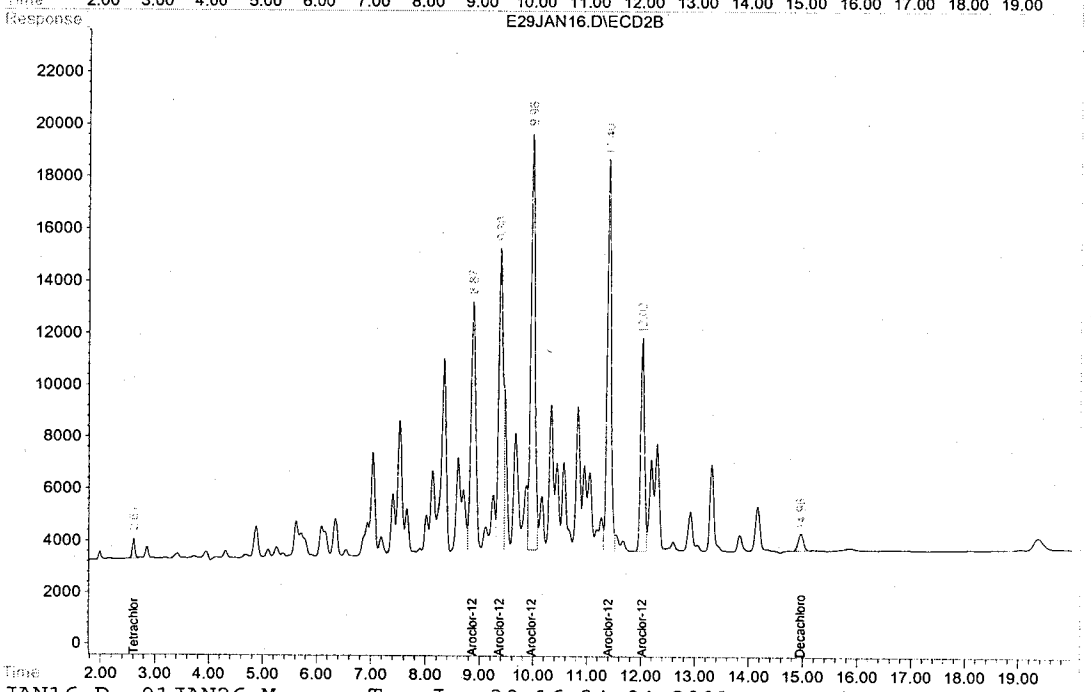
```
Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D\ECD1A.CH Vial: 16
Acq On    : 29 Jan 2001 10:34 pm                         Operator: RAP
Sample    : [0101218-05D] DF=10 {8082_S} PCB UG          Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.80G S=80.6              Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D\ECD2B.CH Vial: 16
Acq On    : 29 Jan 2001 11:01 pm                         Operator: RAP
Sample    : [0101218-05D] DF=10 {8082_S} PCB UG          Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.80G S=80.6              Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 11:03 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.     : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.61 | 30945 | 25507 | 1.300m | | 1. |
| Spiked Amount 16.000 Range 43 - 117 Recovery = | | | | 8.13%# | 7.63%# | | |
| 2) SA Decachlorobiphen | 14.43 | 14.96 | 50364 | 44365 | 1.912m | | 1. |
| Spiked Amount 16.000 Range 36 - 130 Recovery = | | | | 11.95%# | 12.29%# | | |
| Target Compounds | | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 | |
| 30) L7 Aroclor-1260{1} | 8.91 | 8.87 | 743936 | 574168 | 390.731m | | 504. |
| 31) L7 Aroclor-1260{2} | 9.76 | 9.37 | 1241592 | 693896 | 487.376m | | 462. |
| 32) L7 Aroclor-1260{3} | 10.61 | 9.97 | 492912 | 885576 | 377.408m | | 549. |
| 33) L7 Aroclor-1260{4} | 11.03 | 11.40 | 922472 | 764384 | 349.995m | | 390. |
| 34) L7 Aroclor-1260{5} | 11.92 | 12.03 | 643664 | 415408 | 329.274m | | 409. |
| Sum Aroclor-1260 | | | 4044576 | 3333432 | 1934.785 | 2317.675 | |
| Average Aroclor-1260 | | | | | 386.957 | 463.535 | |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 | |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. | |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 | |

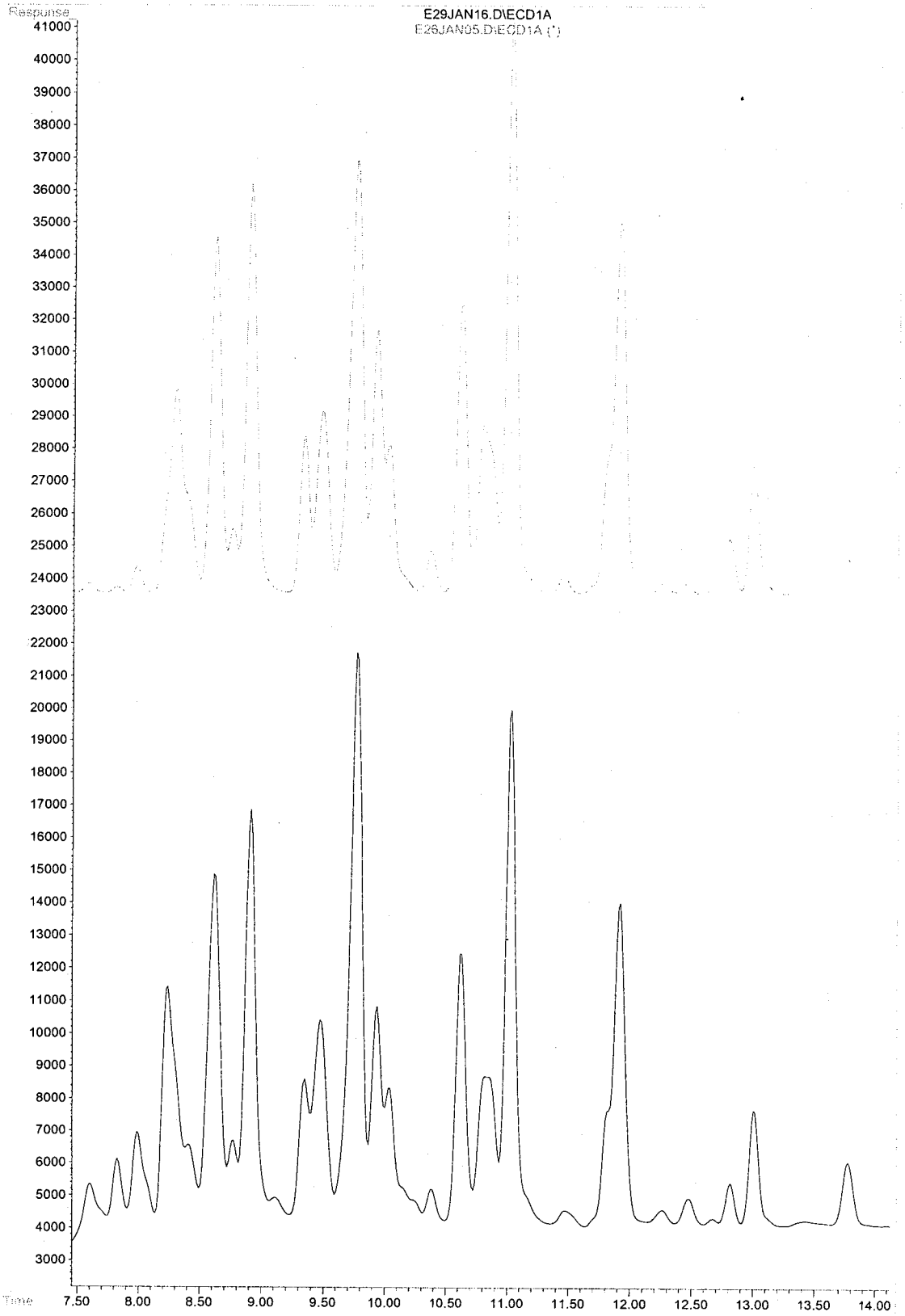
Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D\ECD1A.CH Vial: 16
Acq On    : 29 Jan 2001 10:34 pm                         Operator: RAP
Sample    : [0101218-05D] DF=10 {8082_S} PCB UG          Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.80G S=80.6              Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D\ECD2B.CH Vial: 16
Acq On    : 29 Jan 2001 11:01 pm                         Operator: RAP
Sample    : [0101218-05D] DF=10 {8082_S} PCB UG          Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.80G S=80.6              Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 30 11:03 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase  : RTX-50              Signal #2 Phase: RTX-5
Signal #1 Info   : 0.53                Signal #2 Info : 0.53
```

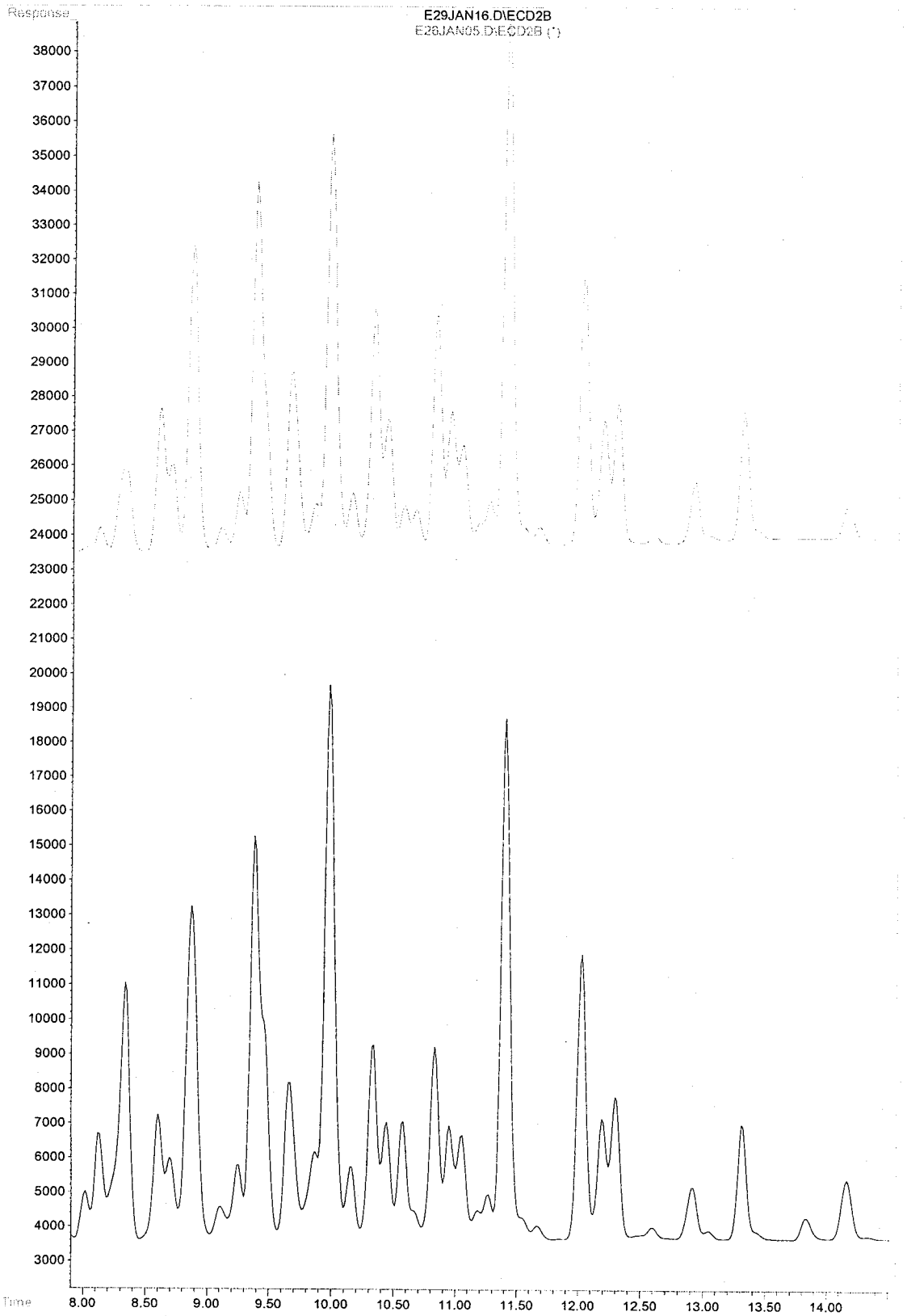


File : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D
Operator : RAP
Acquired : 29 Jan 101 10:34 pm using AcqMethod QQDUAL3.M
Instrument : ELVIS
Sample Name: [0101218-05D] DF=10 {8082_S} PCB UG
Misc Info : SOIL FV=10ML SAMP=20.80G S=80.6
Vial Number: 16



```
File        : C:\HPCHEM\1\DATA\01JAN29\E29JAN16.D
Operator    : RAP
Acquired    : 29 Jan 101  10:34 pm using AcqMethod QQDUAL3.M
Instrument  :   ELVIS
Sample Name: [0101218-05D] DF=10 {8082_S} PCB UG
Misc Info   : SOIL FV=10ML SAMP=20.80G S=80.6
Vial Number: 16
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D\ECD1A.CH Vial: 9
Acq On : 30 Jan 2001 4:57 pm Operator: RAP
Sample : [0101218-06D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.28G S=40.2 Multiplr: 1.22661
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D\ECD2B.CH Vial: 9
Acq On : 30 Jan 2001 5:23 pm Operator: RAP
Sample : [0101218-06D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.28G S=40.2 Multiplr: 1.22661
IntFile : autoint2.e
Quant Time: Jan 31 9:35 2001 Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

| Compound | RT#1 | RT#2 | Reporting Limit | ug/Kg | ug/Kg |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.62 | 0 | 14.22 m | 13.47m |
| TCX | 16.000 Range 43 - 117 | | Recovery = | 88.90% | 84.20% |
| 2) SA Decachlorobiphen | 14.44 | 14.97 | 0 | 12.76 m | 13.94m |
| DCB | 16.000 Range 36 - 130 | | Recovery = | 79.80% | 87.10% |
| Target Compounds | | | | | |
| Average Aroclor-1016 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1221 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1232 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1242 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1248 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1254 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1260 | | | 61.000 | 207.000 | 256.000 |
| Average Aroclor-1262 | | | 61.000 | 0.000 | 0.000 |
| Average Aroclor-1268 | | | 61.000 | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
E30JAN09.D 01JAN26.M Wed Jan 31 09:45:57 2001 P2

RAP 01/31/01

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D\ECD1A.CH Vial: 9
Acq On    : 30 Jan 2001  4:57 pm                        Operator: RAP
Sample    : [0101218-06D] DF=1 {8082_S} PCB UG          Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.28G S=40.2             Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D\ECD2B.CH Vial: 9
Acq On    : 30 Jan 2001  5:23 pm                        Operator: RAP
Sample    : [0101218-06D] DF=1 {8082_S} PCB UG          Inst    : ELVIS
Misc      : SOIL FV=10ML SAMP=20.28G S=40.2             Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jan 31  9:35 2001  Quant Results File: 01JAN26.RES

Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title        : 91CLPPEST / OLM01.8
Last Update  : Mon Oct 23 10:51:02 2000
Response via : Initial Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj.      : 1.0
Signal #1 Phase : RTX-50            Signal #2 Phase: RTX-5
Signal #1 Info  : 0.53              Signal #2 Info : 0.53
```

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachloro-m-xy | 2.14 | 2.62 | 338533 | 281477 | 14.220m | 13. |
| Spiked Amount 16.000 Range 43 - 117 Recovery = 88.88% 84.18% | | | | | | |
| 2) SA Decachlorobiphen | 14.44 | 14.97 | 336201 | 314583 | 12.762m | 13. |
| Spiked Amount 16.000 Range 36 - 130 Recovery = 79.76% 87.14% | | | | | | |
| Target Compounds | | | | | | |
| Sum Aroclor-1016 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1016 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1221 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1221 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1232 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1232 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1242 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1242 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1248 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1248 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1254 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1254 | | | | | 0.000 | 0.000 |
| 30) L7 Aroclor-1260{1} | 8.91 | 8.88 | 385400 | 242696 | 202.420m | 213. |
| 31) L7 Aroclor-1260{2} | 0.00 | 9.39 | 0 | 343600 | N.D. d | 229. |
| 32) L7 Aroclor-1260{3} | 10.63 | 9.99 | 211656 | 372736 | 162.059m | 231. |
| 33) L7 Aroclor-1260{4} | 11.03 | 11.41 | 409504 | 355840 | 155.370m | 181. |
| 34) L7 Aroclor-1260{5} | 11.91 | 12.03 | 302720 | 191312 | 154.860m | 188. |
| Sum Aroclor-1260 | | | 1309280 | 1506184 | 674.709 | 1044.446 |
| Average Aroclor-1260 | | | | | 168.677 | 208.889 |
| Sum Aroclor-1262 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1262 | | | | | 0.000 | 0.000 |
| Sum Aroclor-1268 | | | 0 | 0 | N.D. | N.D. |
| Average Aroclor-1268 | | | | | 0.000 | 0.000 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

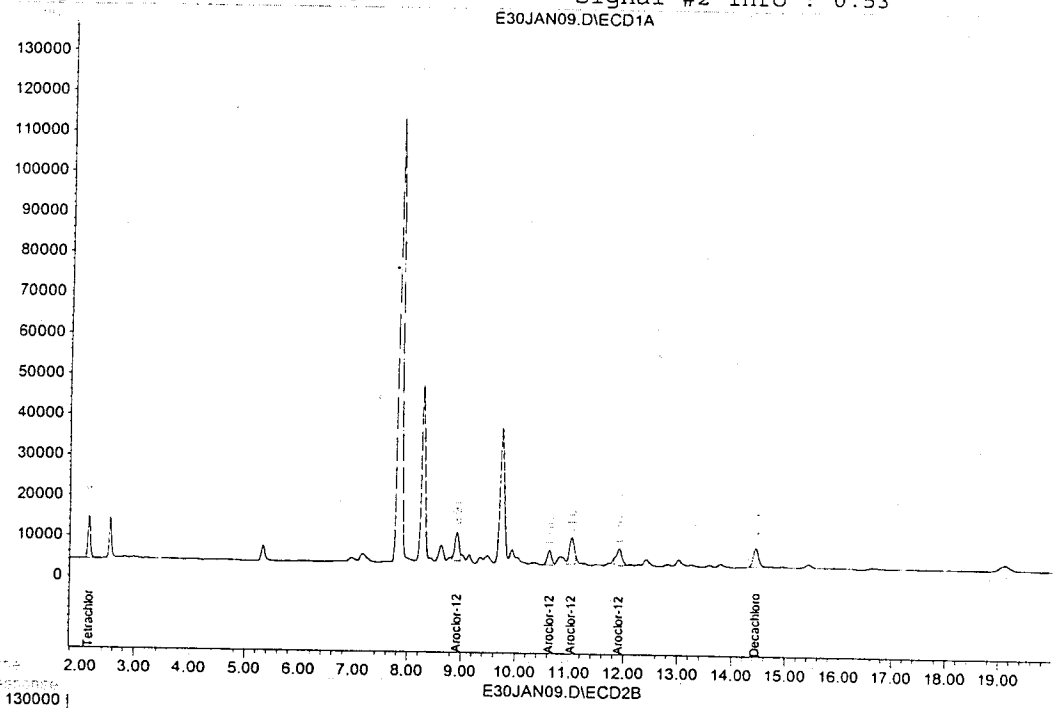
Quantitation Report

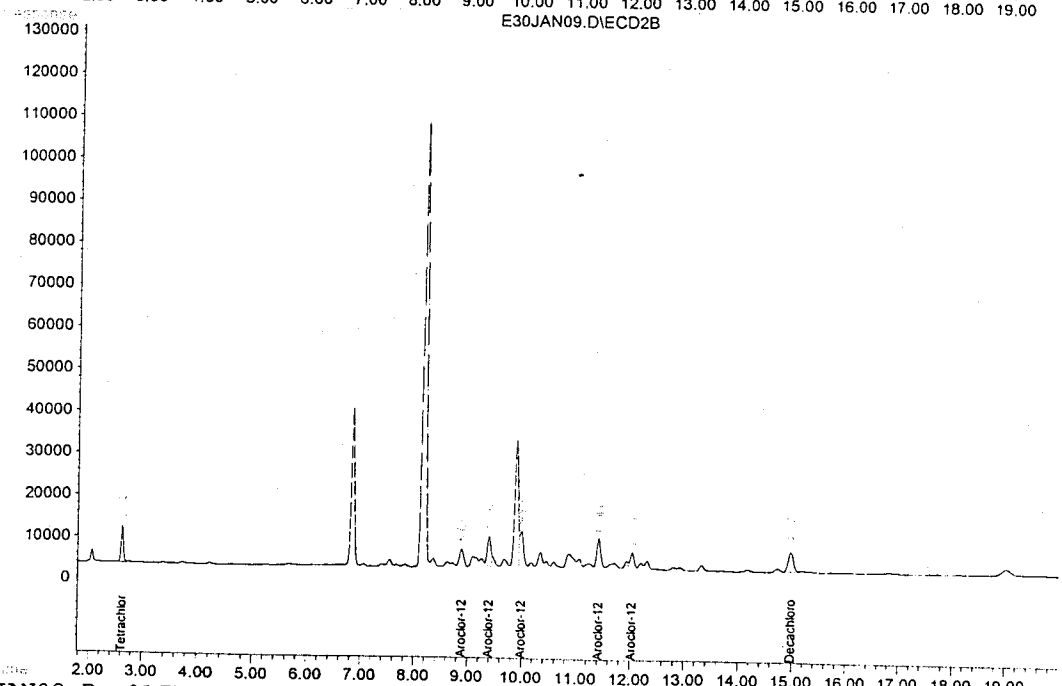
Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D\ECD1A.CH Vial: 9
Acq On : 30 Jan 2001 4:57 pm Operator: RAP
Sample : [0101218-06D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.28G S=40.2 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D\ECD2B.CH Vial: 9
Acq On : 30 Jan 2001 5:23 pm Operator: RAP
Sample : [0101218-06D] DF=1 {8082_S} PCB UG Inst : ELVIS
Misc : SOIL FV=10ML SAMP=20.28G S=40.2 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jan 31 9:35 2001 Quant Results File: 01JAN26.RES

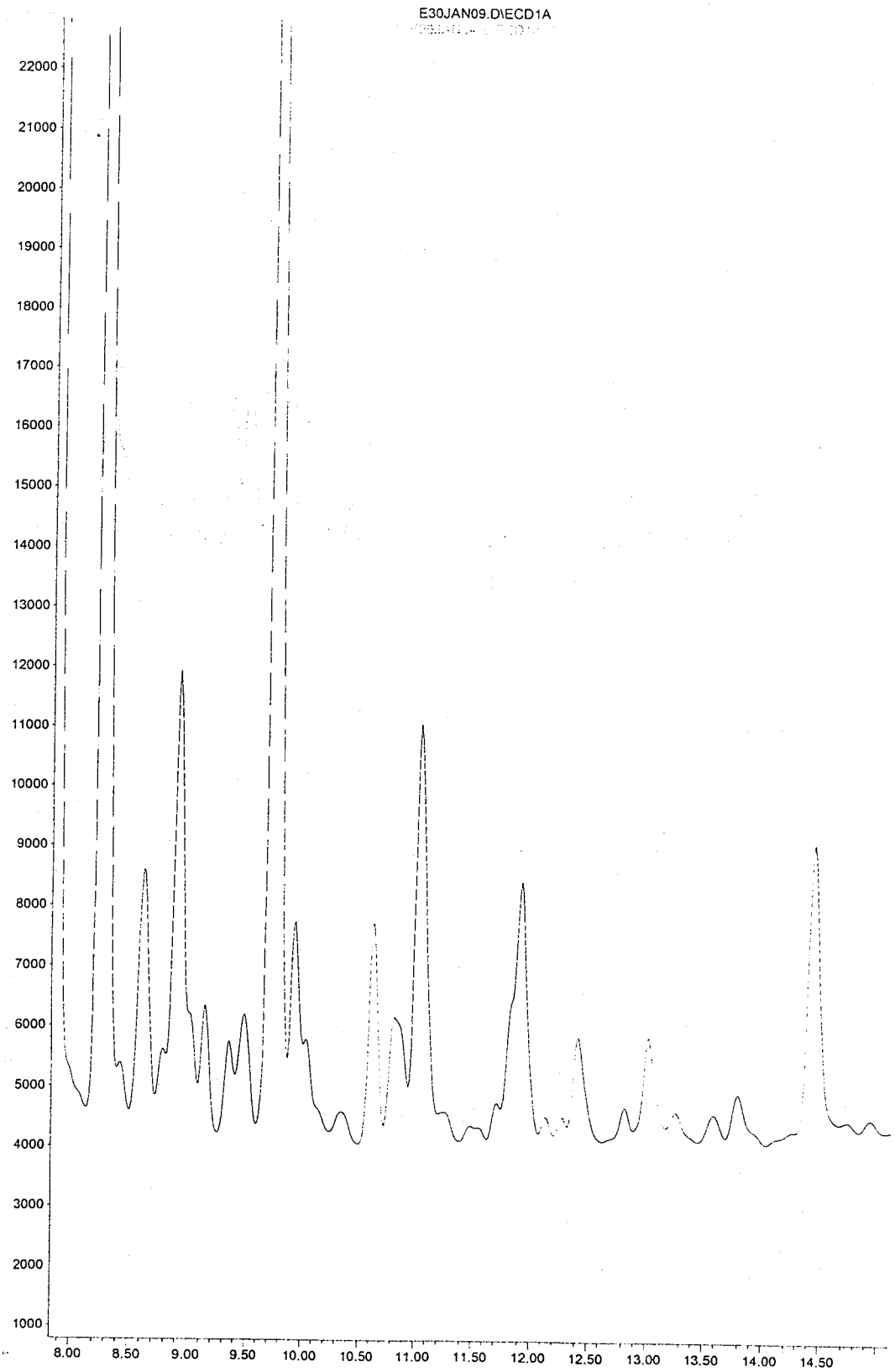
Quant Method : C:\HPCHEM\1\METHODS\01JAN26.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Mon Oct 23 10:51:02 2000
Response via : Multiple Level Calibration
DataAcq Meth : QQDUAL3.M

Volume Inj. : 1.0
Signal #1 Phase : RTX-50 Signal #2 Phase: RTX-5
Signal #1 Info : 0.53 Signal #2 Info : 0.53

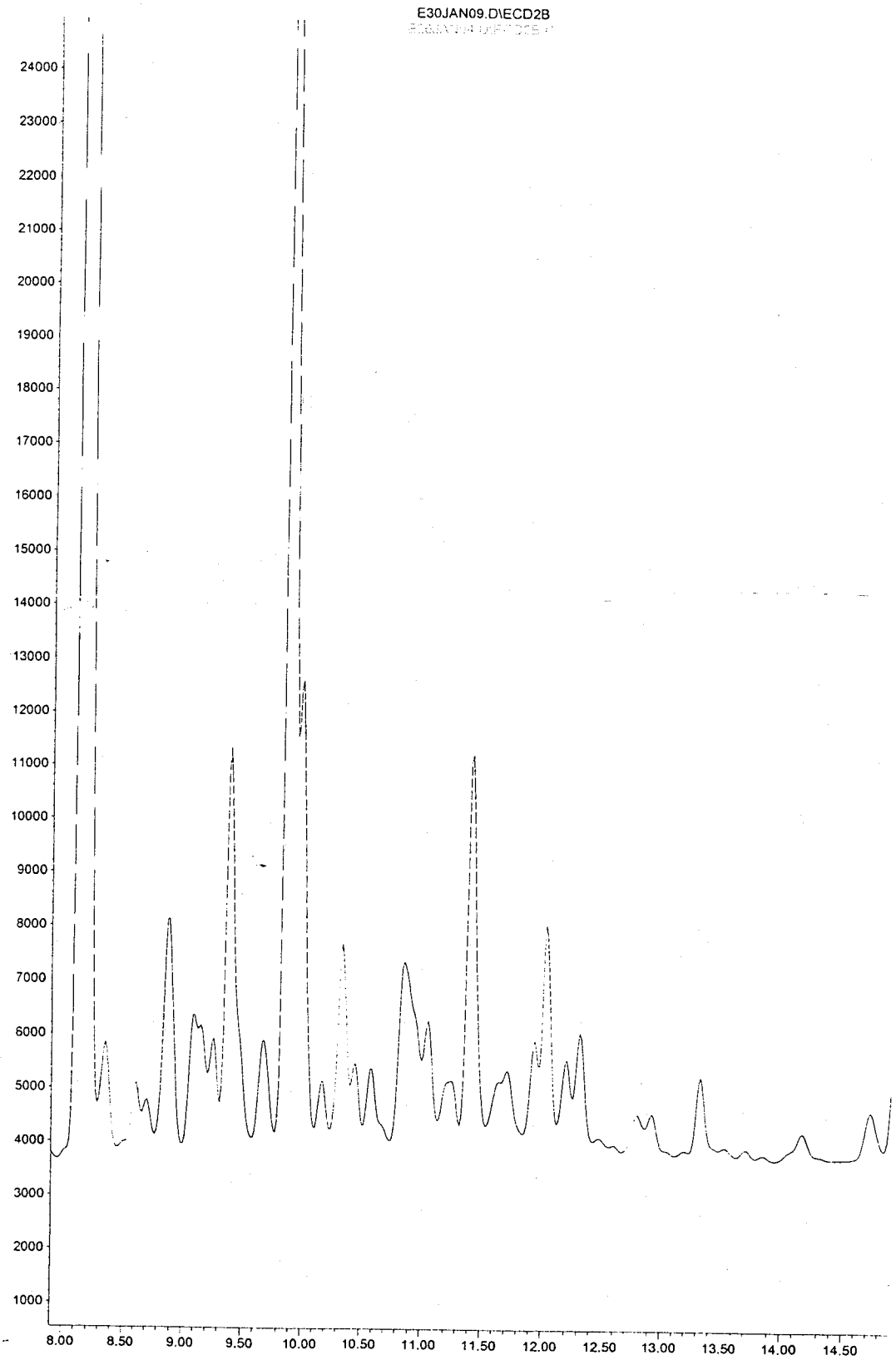


File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D
Operator : RAP
Acquired : 30 Jan 101 4:57 pm using AcqMethod QQDUAL3.M
Instrument : ELVIS
Sample Name: [0101218-06D] DF=1 {8082_S} PCB UG
Misc Info : SOIL FV=10ML SAMP=20.28G S=40.2
Vial Number: 9



File : C:\HPCHEM\1\DATA\01JAN30\E30JAN09.D
Operator : RAP
Acquired : 30 Jan 101 4:57 pm using AcqMethod QQDUAL3.M
Instrument : ELVIS
Sample Name: [0101218-06D] DF=1 {8082_S} PCB UG
Misc Info : SOIL FV=10ML SAMP=20.28G S=40.2
Vial Number: 9



# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H5 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-01D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846 - 3051/6010** | | **SW6010B** | | | | Analyst: **REB** |
| Antimony | ND | 6.0 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Arsenic | 8.6 | 7.5 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Beryllium | ND | 0.75 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Cadmium | 3.3 | 0.75 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Chromium | 19 | 1.5 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Copper | 460 | 3.7 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Lead | 330 | 3.7 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Nickel | 27 | 6.0 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Selenium | ND | 12 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Silver | ND | 2.1 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Thallium | ND | 7.5 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| Zinc | 480 | 3.0 | | mg/Kg-dry | 1 | 1/30/01 11:26:30 AM |
| **MERCURY, 7471A** | | **SW7471A** | | | | Analyst: **MT** |
| Mercury | 0.69 | 0.033 | | mg/Kg-dry | 1 | 1/29/01 |
| **PERCENT MOISTURE** | | **D2216** | | | | Analyst: **CB** |
| Percent Moisture | 21.9 | 0 | | wt% | 1 | 1/26/01 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-H2 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-02D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846 - 3051/6010** | | **SW6010B** | | | | Analyst: **REB** |
| Antimony | ND | 5.6 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Arsenic | ND | 7.0 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Beryllium | ND | 0.70 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Cadmium | ND | 0.70 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Chromium | 12 | 1.4 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Copper | 80 | 3.5 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Lead | 61 | 3.5 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Nickel | 11 | 5.6 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Selenium | ND | 11 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Silver | ND | 2.0 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Thallium | ND | 7.0 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| Zinc | 58 | 2.8 | | mg/Kg-dry | 1 | 1/30/01 11:31:20 AM |
| **MERCURY, 7471A** | | **SW7471A** | | | | Analyst: **MT** |
| Mercury | ND | 0.027 | | mg/Kg-dry | 1 | 1/29/01 |
| **PERCENT MOISTURE** | | **D2216** | | | | Analyst: **CB** |
| Percent Moisture | 13.7 | 0 | | wt% | 1 | 1/26/01 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A7 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-03D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846 - 3051/6010** | | **SW6010B** | | | | Analyst: **REB** |
| Antimony | ND | 14 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Arsenic | ND | 17 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Beryllium | 3.2 | 1.7 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Cadmium | 3.4 | 1.7 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Chromium | 39 | 3.4 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Copper | 120 | 8.5 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Lead | 110 | 8.5 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Nickel | ND | 14 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Selenium | ND | 27 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Silver | ND | 4.8 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Thallium | ND | 17 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| Zinc | 49 | 6.8 | | mg/Kg-dry | 1 | 1/30/01 11:36:01 AM |
| **MERCURY, 7471A** | | **SW7471A** | | | | Analyst: **MT** |
| Mercury | 0.40 | 0.074 | | mg/Kg-dry | 1 | 1/29/01 |
| **PERCENT MOISTURE** | | **D2216** | | | | Analyst: **CB** |
| Percent Moisture | 65.3 | 0 | | wt% | 1 | 1/26/01 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-04D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846 - 3051/6010** | | **SW6010B** | | | | Analyst: **REB** |
| Antimony | ND | 15 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Arsenic | ND | 18 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Beryllium | 1.8 | 1.8 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Cadmium | ND | 1.8 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Chromium | 62 | 3.7 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Copper | 130 | 9.2 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Lead | 280 | 9.2 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Nickel | ND | 15 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Selenium | ND | 30 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Silver | ND | 5.2 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Thallium | ND | 18 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| Zinc | 76 | 7.4 | | mg/Kg-dry | 1 | 1/30/01 11:40:39 AM |
| **MERCURY, 7471A** | | **SW7471A** | | | | Analyst: **MT** |
| Mercury | 0.80 | 0.082 | | mg/Kg-dry | 1 | 1/29/01 |
| **PERCENT MOISTURE** | | **D2216** | | | | Analyst: **CB** |
| Percent Moisture | 68.0 | 0 | | wt% | 1 | 1/26/01 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-G9 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-05D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846 - 3051/6010** | | **SW6010B** | | | | Analyst: **REB** |
| Antimony | 9.1 | 6.2 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Arsenic | 7.9 | 7.7 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Beryllium | ND | 0.77 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Cadmium | 4.5 | 0.77 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Chromium | 23 | 1.5 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Copper | 660 | 3.9 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Lead | 230 | 3.9 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Nickel | 22 | 6.2 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Selenium | ND | 12 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Silver | 3.2 | 2.2 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Thallium | ND | 7.7 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| Zinc | 240 | 3.1 | | mg/Kg-dry | 1 | 1/30/01 11:45:18 AM |
| **MERCURY, 7471A** | | **SW7471A** | | | | Analyst: **MT** |
| Mercury | 0.30 | 0.032 | | mg/Kg-dry | 1 | 1/29/01 |
| **PERCENT MOISTURE** | | **D2216** | | | | Analyst: **CB** |
| Percent Moisture | 19.4 | 0 | | wt% | 1 | 1/26/01 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

# AMRO Environmental Laboratories Corp.

**Date:** *01-Feb-01*

| | | | |
|---|---|---|---|
| **CLIENT:** | GEI Consultants, Inc. | **Client Sample ID:** | 00291-A1 |
| **Lab Order:** | 0101218 | | |
| **Project:** | 00291 MDC-Canton | **Collection Date:** | 1/23/01 |
| **Lab ID:** | 0101218-06D | **Matrix:** | SOIL |

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846 - 3051/6010** | | **SW6010B** | | | | Analyst: **REB** |
| Antimony | ND | 12 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Arsenic | ND | 15 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Beryllium | 1.9 | 1.5 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Cadmium | ND | 1.5 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Chromium | 40 | 3.0 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Copper | 110 | 7.4 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Lead | 87 | 7.4 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Nickel | ND | 12 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Selenium | ND | 24 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Silver | ND | 4.1 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Thallium | ND | 15 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| Zinc | 37 | 5.9 | | mg/Kg-dry | 1 | 1/30/01 11:50:08 AM |
| **MERCURY, 7471A** | | **SW7471A** | | | | Analyst: **MT** |
| Mercury | 0.25 | 0.058 | | mg/Kg-dry | 1 | 1/29/01 |
| **PERCENT MOISTURE** | | **D2216** | | | | Analyst: **CB** |
| Percent Moisture | 59.8 | 0 | | wt% | 1 | 1/26/01 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
# - See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *31-Jan-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Method Blank

Sample ID: **MB-3688** Batch ID: **3688** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **1/30/01 10:36:20 AM** Prep Date: **1/26/01**

Client ID: Run ID: **ICP-OPTIMA_010130A** SeqNo: **105181**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 4.0 | mg/Kg | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/Kg | | | | | | | | | |
| Beryllium | ND | 0.50 | mg/Kg | | | | | | | | | |
| Cadmium | ND | 0.50 | mg/Kg | | | | | | | | | |
| Chromium | ND | 1.0 | mg/Kg | | | | | | | | | |
| Copper | ND | 2.5 | mg/Kg | | | | | | | | | |
| Lead | ND | 2.5 | mg/Kg | | | | | | | | | |
| Nickel | ND | 4.0 | mg/Kg | | | | | | | | | |
| Selenium | ND | 8.0 | mg/Kg | | | | | | | | | |
| Silver | ND | 1.4 | mg/Kg | | | | | | | | | |
| Thallium | ND | 5.0 | mg/Kg | | | | | | | | | |
| Zinc | ND | 2.0 | mg/Kg | | | | | | | | | |

Sample ID: **MB-3694** Batch ID: **3694** Test Code: **SW7471A** Units: **mg/Kg** Analysis Date **1/29/01** Prep Date: **1/29/01**

Client ID: Run ID: **HG-FIMS_010129A** SeqNo: **104896**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 0.025 | mg/Kg | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *31-Jan-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **0101211-03BMS** Batch ID: **3688** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **1/30/01 10:54:01 AM** Prep Date: **1/26/01**

Client ID: Run ID: **ICP-OPTIMA_010130A** SeqNo: **105185**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 240.6 | 5.6 | mg/Kg-dry | 280.2 | 0 | 85.9 | 75 | 125 | 0 | | | |
| Arsenic | 278.1 | 7.0 | mg/Kg-dry | 280.2 | 9.784 | 95.7 | 75 | 125 | 0 | | | |
| Beryllium | 105.5 | 0.70 | mg/Kg-dry | 112.1 | 0.5025 | 93.6 | 75 | 125 | 0 | | | |
| Cadmium | 110.9 | 0.70 | mg/Kg-dry | 112.1 | 0 | 98.9 | 75 | 125 | 0 | | | |
| Chromium | 588.2 | 1.4 | mg/Kg-dry | 560.5 | 20.9 | 101 | 75 | 125 | 0 | | | |
| Copper | 285 | 3.5 | mg/Kg-dry | 280.2 | 10.1 | 98.1 | 75 | 125 | 0 | | | |
| Lead | 280.4 | 3.5 | mg/Kg-dry | 280.2 | 4.687 | 98.4 | 75 | 125 | 0 | | | |
| Nickel | 578.2 | 5.6 | mg/Kg-dry | 560.5 | 16.49 | 100 | 75 | 125 | 0 | | | |
| Selenium | 216.4 | 11 | mg/Kg-dry | 224.2 | 0 | 96.5 | 75 | 125 | 0 | | | |
| Silver | 54.04 | 2.0 | mg/Kg-dry | 56.05 | 0 | 96.4 | 75 | 125 | 0 | | | |
| Thallium | 191.9 | 7.0 | mg/Kg-dry | 224.2 | 0 | 85.6 | 75 | 125 | 0 | | | |
| Zinc | 581.1 | 2.8 | mg/Kg-dry | 560.5 | 26.08 | 99 | 75 | 125 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *31-Jan-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID: **0101211-03BMSD** Batch ID: **3688** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **1/30/01 10:59:10 AM** Prep Date: **1/26/01**

Client ID: Run ID: **ICP-OPTIMA_010130A** SeqNo: **105186**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 223.8 | 5.5 | mg/Kg-dry | 276.2 | 0 | 81 | 75 | 125 | 240.6 | 7.24 | 20 | |
| Arsenic | 269.6 | 6.9 | mg/Kg-dry | 276.2 | 9.784 | 94.1 | 75 | 125 | 278.1 | 3.1 | 20 | |
| Beryllium | 102.9 | 0.69 | mg/Kg-dry | 110.5 | 0.5025 | 92.6 | 75 | 125 | 105.5 | 2.49 | 20 | |
| Cadmium | 106.8 | 0.69 | mg/Kg-dry | 110.5 | 0 | 96.6 | 75 | 125 | 110.9 | 3.79 | 20 | |
| Chromium | 572.1 | 1.4 | mg/Kg-dry | 552.5 | 20.9 | 99.8 | 75 | 125 | 588.2 | 2.76 | 20 | |
| Copper | 277.6 | 3.5 | mg/Kg-dry | 276.2 | 10.1 | 96.8 | 75 | 125 | 285 | 2.63 | 20 | |
| Lead | 271 | 3.5 | mg/Kg-dry | 276.2 | 4.687 | 96.4 | 75 | 125 | 280.4 | 3.41 | 20 | |
| Nickel | 559.4 | 5.5 | mg/Kg-dry | 552.5 | 16.49 | 98.3 | 75 | 125 | 578.2 | 3.31 | 20 | |
| Selenium | 208.6 | 11 | mg/Kg-dry | 221 | 0 | 94.4 | 75 | 125 | 216.4 | 3.65 | 20 | |
| Silver | 48.06 | 1.9 | mg/Kg-dry | 55.25 | 0 | 87 | 75 | 125 | 54.04 | 11.7 | 20 | |
| Thallium | 192.2 | 6.9 | mg/Kg-dry | 221 | 0 | 87 | 75 | 125 | 191.9 | 0.185 | 20 | |
| Zinc | 566.5 | 2.8 | mg/Kg-dry | 552.5 | 26.08 | 97.8 | 75 | 125 | 581.1 | 2.55 | 20 | |

Sample ID: **0101211-01BMS** Batch ID: **3694** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **1/29/01** Prep Date: **1/29/01**

Client ID: Run ID: **HG-FIMS_010129A** SeqNo: **104885**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.5005 | 0.025 | mg/Kg-dry | 0.4952 | 0 | 101 | 75 | 125 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

**Date:** *31-Jan-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Sample Matrix Spike Duplicate

Sample ID: **0101211-01BMSD** Batch ID: **3694** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **1/29/01** Prep Date: **1/29/01**

Client ID: Run ID: **HG-FIMS_010129A** SeqNo: **104886**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.5018 | 0.025 | mg/Kg-dry | 0.4982 | 0 | 101 | 75 | 125 | 0.5005 | 0.253 | 20 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

**Date:** *31-Jan-01*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0101218
**Project:** 00291 MDC-Canton

# QC SUMMARY REPORT

## Laboratory Control Spike

Sample ID: **LCS-3688** Batch ID: **3688** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **1/30/01 10:39:35 AM** Prep Date: **1/26/01**

Client ID: Run ID: **ICP-OPTIMA_010130A** SeqNo: **105182**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 188.1 | 4.0 | mg/Kg | 200 | 0 | 94 | 80 | 120 | 0 | | | |
| Arsenic | 195.7 | 5.0 | mg/Kg | 200 | 0 | 97.8 | 80 | 120 | 0 | | | |
| Beryllium | 76.14 | 0.50 | mg/Kg | 80 | 0 | 95.2 | 80 | 120 | 0 | | | |
| Cadmium | 81.57 | 0.50 | mg/Kg | 80 | 0 | 102 | 80 | 120 | 0 | | | |
| Chromium | 416.3 | 1.0 | mg/Kg | 400 | 0 | 104 | 80 | 120 | 0 | | | |
| Copper | 195.8 | 2.5 | mg/Kg | 200 | 0 | 97.9 | 80 | 120 | 0 | | | |
| Lead | 204.3 | 2.5 | mg/Kg | 200 | 0 | 102 | 80 | 120 | 0 | | | |
| Nickel | 412.9 | 4.0 | mg/Kg | 400 | 0 | 103 | 80 | 120 | 0 | | | |
| Selenium | 156.6 | 8.0 | mg/Kg | 160 | 0 | 97.9 | 80 | 120 | 0 | | | |
| Silver | 38.63 | 1.4 | mg/Kg | 40 | 0 | 96.6 | 80 | 120 | 0 | | | |
| Thallium | 159.7 | 5.0 | mg/Kg | 160 | 0 | 99.8 | 80 | 120 | 0 | | | |
| Zinc | 406.8 | 2.0 | mg/Kg | 400 | 0 | 102 | 80 | 120 | 0 | | | |

Sample ID: **LCS-3694** Batch ID: **3694** Test Code: **SW7471A** Units: **mg/Kg** Analysis Date **1/29/01** Prep Date: **1/29/01**

Client ID: Run ID: **HG-FIMS_010129A** SeqNo: **104895**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.4934 | 0.025 | mg/Kg | 0.5 | 0 | 98.7 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; NA - Not applicable where J values or ND results occur; RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.