AMRO Environmental Laboratories Corporation

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April 19, 2007

**ANALYTICAL TEST RESULTS**

Raymond Siegener
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
TEL: (781) 721-4098
FAX: (781) 721-4073

Subject: 00291-4 Canton Airport

Workorder No.: 0703055

Dear Raymond Siegener:

AMRO Environmental Laboratories Corp. received 9 samples on 3/16/2007 for the analyses presented in the following report.

The enclosed sample results are revised based upon further review of the the analytical data or legitimate changes made at your request.

AMRO is accredited in accordance with NELAC and certifies that these test results meet all the requirements of NELAC, where applicable, unless otherwise noted in the case narrative.

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 24 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

**State Certifications:** NH (NELAC): 1001, MA: M-NH012, CT: PH-0758, NY: 11278 (NELAC), ME: NH012 and 1001, NJ: NH125, RI: 00105, U.S. Army Corps of Engineers (USACE), Naval Facilities Engineering Service Center (NFESC).

*Hard copy of the State Certification is available upon request.*

# CASE NARRATIVE

GC/MS VOLATILES

1. A Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were performed on 03/20/07 (Batch ID: R36201).

1.1 The % Recovery for 2 analytes out of 71 analytes in the LCS were outside the laboratory control limits.
1.2 The % Recovery for 7 analytes out of 71analytes in the LCSD were outside the laboratory control limits.

2. A quadratic regression was used for Vinyl chloride in the Initial Calibration.

3. Acetone, 2-Butanone, 2,2-Dichloropropane, 1,2-Dichloroethane, Diethyl ether, Methylene chloride, Ethyl tert-butyl ether and Methyl tert-butyl ether recovered outside the control limits in the Continuing Calibration Verification Standard analyzed on 03/20/07.

GC/MS SEMIVOLATILES

1. A Method Blank was performed on 3/29/07 (Batch ID: 16906).

1.1 The surrogate % Recovery for 2, 4, 6-Tribromophenol was outside the laboratory control limits.

2. A Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were performed on 3/29/07 (Batch ID: 16906).

2.1 The % Recovery for 5 analytes out of 57 analytes in the LCS were outside the laboratory control limits.
2.2 The LCS surrogate % Recovery for 2, 4, 6-Tribromophenol was outside the laboratory control limits.
2.3 The LCSD surrogate % Recovery for 2, 4, 6-Tribromophenol was outside the laboratory control limits.
2.4 All LCS/LCSD RPDs were outside laboratory control limits due to a possible prep error.

3. The surrogate 2, 4, 6-Tribromophenol recovered above the control limits (15-110%) in samples 002914-MW-1 (0703055-01), 002914-B111 (MW) (0703055-03), 002914-B108 (MW) (0703055-06) and 002914-W11 (0703055-08).

GC/ECD-PCBs

1. The surrogate Decachlorobiphenyl recovered below the control limits (30-119%) in samples 002914-B111 (MW) (0703055-03), 002914-B109S (MW) (0703055-04), 002914-B110 (MW) (0703055-05), 002914-B108 (MW) (0703055-06) and 002914-B107D (MW) (0703055-07).

MA-DEP EPH 1.1

1. AMRO Laboratory analyzed EPH using the GC/MS option as indicated in the MADEP EPH Rev.1.1, Section 9.10 May 2004.

2. The surrogate 1-Chlorooctadecane recovered below the control limits (40-140%) in samples 002914-W1 (0703055-01), 002914-W99 (0703055-02), 002914-B109S (MW) (0703055-04), 002914-B110 (MW) (0703055-05), 002914-B108 (MW) (0703055-06), 002914-B107D (MW) (0703055-07), 002914-W11 (0703055-08) and 002914-B105D (MW) (0703055-09).

3. Only ranges are reported per the client request.

METALS:

1. Total Iron was reported per client's request on April 13, 2007 to add iron to project.

1.1 Total Iron was reported from analysis performed on 3/27/07 Batch ID: 16891.

2. Total Silver was reanalyzed per client's request on April 13, 2007 to confirm silver results.

2.1 Total Silver was reported from re-analysis performed on 4/18/07 Batch ID: 16891. The re-analysis of Total Silver on the ICP for samples 002914-W1 (0703055-01), 002914-W99 (0703055-02), 002914-B111 (MW) (0703055-03), 002914-B109S (MW) (0703055-04), 002914-B110 (MW) (0703055-05), 002914-B108 (MW) (0703055-06) and 002914-B107D (MW) (0703055-07) were not detected at the reporting limit.

2.2 The laboratory experienced difficultly with the ICP shortly after the original analysis date of 3/27/07. It was not evident on 3/27/07 that the instrument was not functioning properly for Silver since the Batch QC associated with these samples was acceptable. This has been provided for review. The laboratory implemented a change to the ICP's method and interelement correction factors on 4/9/07.

## Nancy Stewart

**From:** Ray Siegener [RSiegener@geiconsultants.com]
**Sent:** Friday, April 13, 2007 3:53 PM
**To:** Nancy Stewart
**Cc:** Andrea Igo; Saskia Oosting
**Subject:** Canton Airport
**Follow Up Flag:** Follow up
**Flag Status:** Red

Hi Nancy,
Several groundwater samples from Canton Airport had elevated silver concentrations reported which exceeded the RC-GW3 criteria. We are trying to figure out what is going on at the site before we report the results to the Board of Health. When you analyzed for silver by 6010, I was wondering if you collected data for Iron as well, if so could you report that to us?
Another option would be to analyze for silver using graphite furnace; if you can do silver this way, please send me the costs so can present them to the client if we determine the analysis is necessary.
Please call me if you have any questions and thank you for your assistance.

Regards,
Ray

Raymond Siegener, Ph.D.
Project Environmental Scientist
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
Cell: 339-227-3342
Office: 781-721-4098
www.geiconsultants.com

## Nancy Stewart

**From:** Ray Siegener [RSiegener@geiconsultants.com]
**Sent:** Friday, April 13, 2007 4:18 PM
**To:** Nancy Stewart
**Cc:** Andrea Igo; Saskia Oosting
**Subject:** Canton airport Silver samples.

Sorry Nancy - these are the affected samples: 0703053-01 through 03; 0703055-01 through 07.

Regards,
Ray

Raymond Siegener, Ph.D.
Project Environmental Scientist
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
Cell: 339-227-3342
Office: 781-721-4098
www.geiconsultants.com

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-01

**Collection Date:** 3/15/07 11:36:00 AM
**Collection Time:**

**Client Sample ID:** 002914-W1

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Chromium | ND | 10.0 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Iron | 6,740 | 100 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 3:24:47 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| Zinc | 89.4 | 20.0 | | µg/L | 1 | 3/27/07 3:26:52 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 6:54:11 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 2:20:29 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 6:54:11 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 6:54:11 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 12:37:52 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 12:37:52 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-02

**Collection Date:** 3/15/07 12:00:00 PM
**Collection Time:**

**Client Sample ID:** 002914-W99

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: RK |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Chromium | ND | 10.0 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Iron | 6,560 | 100 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 3:31:42 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| Zinc | 81.6 | 20.0 | | µg/L | 1 | 3/27/07 3:32:34 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: RK |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 7:01:35 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: AL |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 2:47:06 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: RK |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 7:01:35 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: RK |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 7:01:35 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: REB |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 12:44:57 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: REB |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 12:44:57 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-03

**Collection Date:** 3/15/07 2:47:00 PM
**Collection Time:**

**Client Sample ID:** 002914-B111 (MW)

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Chromium | ND | 10.0 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Iron | 10,700 | 100 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 3:38:38 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| Zinc | 34.9 | 20.0 | | µg/L | 1 | 3/27/07 3:48:52 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 7:09:24 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 2:50:56 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 7:09:24 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 7:09:24 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 12:52:03 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 12:52:03 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport
**Lab Order:** 0703055

**Lab ID:** 0703055-04
**Collection Date:** 3/15/07 12:00:00 PM
**Collection Time:**
**Client Sample ID:** 002914-B109S (MW)
**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Chromium | ND | 10.0 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Iron | 20,800 | 100 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 3:45:37 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| Zinc | 21.4 | 20.0 | | µg/L | 1 | 3/27/07 3:54:38 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 7:17:13 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 2:54:45 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 7:17:13 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 7:17:13 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 12:59:10 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 12:59:10 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-05

**Collection Date:** 3/15/07 4:02:00 PM
**Collection Time:**

**Client Sample ID:** 002914-B110 (MW)

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Chromium | ND | 10.0 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Iron | 4,750 | 100 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 3:52:38 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| Zinc | 39.2 | 20.0 | | µg/L | 1 | 3/27/07 4:00:25 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 7:24:50 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 2:58:32 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | 6.7 | 5.0 | | µg/L | 1 | 3/20/07 7:24:50 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 7:24:50 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 1:06:20 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 1:06:20 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-06

**Collection Date:** 3/15/07 1:02:00 PM
**Collection Time:**

**Client Sample ID:** 002914-B108 (MW)

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Chromium | 30.4 | 10.0 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Iron | 25,400 | 100 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 3:59:36 PM |
| Vanadium | 97.4 | 50.0 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| Zinc | ND | 20.0 | | µg/L | 1 | 3/27/07 4:06:03 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 7:32:35 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 3:02:16 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 7:32:35 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 7:32:35 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 1:35:36 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 1:35:36 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport
**Lab Order:** 0703055

**Lab ID:** 0703055-07
**Collection Date:** 3/15/07 11:37:00 AM
**Collection Time:**
**Client Sample ID:** 002914-B107D (MW)
**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Chromium | 10.1 | 10.0 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Iron | 11,800 | 100 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 4/18/07 4:19:40 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| Zinc | 21.2 | 20.0 | | µg/L | 1 | 3/27/07 4:11:50 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 7:39:56 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 3:06:01 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 7:39:56 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 7:39:56 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 1:42:53 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 1:42:53 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-08

**Collection Date:** 3/15/07 9:38:00 AM
**Collection Time:**

**Client Sample ID:** 002914-W11

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | ND | 200 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Beryllium | ND | 4.00 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Cadmium | ND | 5.00 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Chromium | ND | 10.0 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Iron | 321 | 100 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Nickel | ND | 40.0 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Vanadium | ND | 50.0 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| Zinc | 1,050 | 20.0 | | µg/L | 1 | 3/27/07 4:17:31 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | ND | 5.00 | | µg/L | 1 | 3/20/07 8:10:45 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 3:09:47 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 8:10:45 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 8:10:45 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 1:50:08 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 1:50:08 PM |

# AMRO Environmental Laboratories Corp.

**Date:** *20-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Project:** 00291-4 Canton Airport

**Lab Order:** 0703055

**Lab ID:** 0703055-09

**Collection Date:** 3/15/07 8:57:00 AM
**Collection Time:**

**Client Sample ID:** 002914-B105D (MW)

**Matrix:** GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS TOTAL SW-846** | | **SW6010B** | | | | Analyst: **RK** |
| Barium | 739 | 200 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Beryllium | 5.58 | 4.00 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Cadmium | 7.66 | 5.00 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Chromium | 277 | 10.0 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Iron | 220,000 | 100 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Nickel | 230 | 40.0 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Silver | ND | 7.00 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Vanadium | 356 | 50.0 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| Zinc | 658 | 20.0 | | µg/L | 1 | 3/27/07 4:23:19 PM |
| **ARSENIC, TOTAL** | | **SW7060A** | | | | Analyst: **RK** |
| Arsenic | 27.4 | 5.00 | | µg/L | 1 | 3/20/07 8:18:29 PM |
| **MERCURY, TOTAL** | | **SW7470A** | | | | Analyst: **AL** |
| Mercury | ND | 0.200 | | µg/L | 1 | 3/21/07 3:21:11 PM |
| **LEAD, TOTAL** | | **SW7421** | | | | Analyst: **RK** |
| Lead | ND | 5.0 | | µg/L | 1 | 3/20/07 8:18:29 PM |
| **ANTIMONY, TOTAL** | | **SW7041** | | | | Analyst: **RK** |
| Antimony | ND | 6.0 | | µg/L | 1 | 3/20/07 8:18:29 PM |
| **SELENIUM, TOTAL** | | **SW7740** | | | | Analyst: **REB** |
| Selenium | ND | 5.0 | | µg/L | 1 | 3/21/07 1:57:22 PM |
| **THALLIUM, TOTAL** | | **SW7841** | | | | Analyst: **REB** |
| Thallium | ND | 2.0 | | µg/L | 1 | 3/21/07 1:57:22 PM |

AMRO Environmental Laboratories Corp.

**Date:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Method Blank

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW6010B** Units: **µg/L** Analysis Date **3/27/07 1:56:10 PM** Prep Date **3/19/07**
Client ID: Run ID: **ICP-OPTIMA_070327A** SeqNo: **600900**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | 200 | µg/L | | | | | | | | | |
| Beryllium | ND | 4.0 | µg/L | | | | | | | | | |
| Cadmium | ND | 5.0 | µg/L | | | | | | | | | |
| Chromium | ND | 10 | µg/L | | | | | | | | | |
| Iron | ND | 100 | µg/L | | | | | | | | | |
| Nickel | ND | 40 | µg/L | | | | | | | | | |
| Silver | ND | 7.0 | µg/L | | | | | | | | | |
| Vanadium | ND | 50 | µg/L | | | | | | | | | |
| Zinc | ND | 20 | µg/L | | | | | | | | | |

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW6010B** Units: **µg/L** Analysis Date **4/18/07 3:04:40 PM** Prep Date **3/19/07**
Client ID: Run ID: **ICP-OPTIMA_070418A** SeqNo: **604484**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | 7.0 | µg/L | | | | | | | | | |

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW7060A** Units: **µg/L** Analysis Date **3/20/07 4:42:01 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320D** SeqNo: **599684**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 5.0 | µg/L | | | | | | | | | |

**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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Method Blank

Sample ID **mb-16900** Batch ID: **16900** Test Code: **SW7470A** Units: **µg/L** Analysis Date **3/21/07 2:09:12 PM** Prep Date **3/20/07**
Client ID: Run ID: **HG-FIMS_070321B** SeqNo: **599948**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 0.20 | µg/L | | | | | | | | | |

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW7421** Units: **µg/L** Analysis Date **3/20/07 4:42:01 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320E** SeqNo: **599721**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 5.0 | µg/L | | | | | | | | | |

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW7041** Units: **µg/L** Analysis Date **3/20/07 4:42:01 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320F** SeqNo: **599758**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 6.0 | µg/L | | | | | | | | | |

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW7740** Units: **µg/L** Analysis Date **3/21/07 10:28:00 AM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070321A** SeqNo: **600010**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | ND | 5.0 | µg/L | | | | | | | | | |

**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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Method Blank

Sample ID **MB-16891** Batch ID: **16891** Test Code: **SW7841** Units: **µg/L** Analysis Date **3/21/07 10:28:00 AM** Prep Date **3/19/07**

Client ID: Run ID: **GFAA-6000_070321B** SeqNo: **600052**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | ND | 2.0 | µg/L | | | | | | | | | |

**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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW6010B** Units: **µg/L** Analysis Date **3/27/07 2:00:41 PM** Prep Date **3/19/07**
Client ID: Run ID: **ICP-OPTIMA_070327A** SeqNo: **600901**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 4292 | 200 | µg/L | 4028 | 0 | 107 | 80 | 120 | 0 | | | |
| Beryllium | 839.9 | 4.0 | µg/L | 797 | 0 | 105 | 80 | 120 | 0 | | | |
| Cadmium | 857.6 | 5.0 | µg/L | 800 | 0 | 107 | 80 | 120 | 0 | | | |
| Chromium | 4411 | 10 | µg/L | 3976 | 0 | 111 | 80 | 120 | 0 | | | |
| Iron | 4447 | 100 | µg/L | 4004 | 0 | 111 | 80 | 120 | 0 | | | |
| Nickel | 4545 | 40 | µg/L | 3984 | 0 | 114 | 80 | 120 | 0 | | | |
| Silver | 440 | 7.0 | µg/L | 400 | 0 | 110 | 80 | 120 | 0 | | | |
| Vanadium | 4441 | 50 | µg/L | 4000 | 0 | 111 | 80 | 120 | 0 | | | |
| Zinc | 4557 | 20 | µg/L | 3984 | 0 | 114 | 80 | 120 | 0 | | | |

Sample ID **LCS-16891D** Batch ID: **16891** Test Code: **SW6010B** Units: **µg/L** Analysis Date **3/27/07 2:06:50 PM** Prep Date **3/19/07**
Client ID: Run ID: **ICP-OPTIMA_070327A** SeqNo: **600902**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 4320 | 200 | µg/L | 4028 | 0 | 107 | 80 | 120 | 4796 | 10.5 | 0 | |
| Beryllium | 838.4 | 4.0 | µg/L | 797 | 0 | 105 | 80 | 120 | 889.3 | 5.89 | 0 | |
| Cadmium | 862.2 | 5.0 | µg/L | 800 | 0 | 108 | 80 | 120 | 939.4 | 8.57 | 0 | |
| Chromium | 4426 | 10 | µg/L | 3976 | 0 | 111 | 80 | 120 | 4297 | 2.96 | 0 | |
| Iron | 4457 | 100 | µg/L | 4004 | 0 | 111 | 80 | 120 | 4559 | 2.25 | 0 | |
| Nickel | 4560 | 40 | µg/L | 3984 | 0 | 114 | 80 | 120 | 4330 | 5.16 | 0 | |
| Silver | 441.7 | 7.0 | µg/L | 400 | 0 | 110 | 80 | 120 | 441.7 | 0.0046 | 0 | |
| Vanadium | 4452 | 50 | µg/L | 4000 | 0 | 111 | 80 | 120 | 4631 | 3.93 | 0 | |
| Zinc | 4559 | 20 | µg/L | 3984 | 0 | 114 | 80 | 120 | 4569 | 0.208 | 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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW6010B** Units: **µg/L** Analysis Date **4/18/07 3:10:22 PM** Prep Date **3/19/07**
Client ID: Run ID: **ICP-OPTIMA_070418A** SeqNo: **604485**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 438.5 | 7.0 | µg/L | 400 | 0 | 110 | 80 | 120 | 0 | | | |

Sample ID **LCSD-16891** Batch ID: **16891** Test Code: **SW6010B** Units: **µg/L** Analysis Date **4/18/07 3:17:34 PM** Prep Date **3/19/07**
Client ID: Run ID: **ICP-OPTIMA_070418A** SeqNo: **604486**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 438.4 | 7.0 | µg/L | 400 | 0 | 110 | 80 | 120 | 438.5 | 0.0203 | 0 | |

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW7060A** Units: **µg/L** Analysis Date **3/20/07 4:48:55 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320D** SeqNo: **599685**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 25.2 | 5.0 | µg/L | 25 | 0 | 101 | 80 | 120 | 0 | | | |

Sample ID **LCS-16891D** Batch ID: **16891** Test Code: **SW7060A** Units: **µg/L** Analysis Date **3/20/07 4:56:01 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320D** SeqNo: **599686**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 24.33 | 5.0 | µg/L | 25 | 0 | 97.3 | 80 | 120 | 25.2 | 3.51 | 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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **lcs-16900** Batch ID: **16900** Test Code: **SW7470A** Units: **µg/L** Analysis Date **3/21/07 2:12:57 PM** Prep Date **3/20/07**
Client ID: Run ID: **HG-FIMS_070321B** SeqNo: **599949**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.275 | 0.20 | µg/L | 4 | 0 | 107 | 80 | 120 | 0 | | | |

Sample ID **lcsd-16900** Batch ID: **16900** Test Code: **SW7470A** Units: **µg/L** Analysis Date **3/21/07 2:16:42 PM** Prep Date **3/20/07**
Client ID: Run ID: **HG-FIMS_070321B** SeqNo: **599950**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.279 | 0.20 | µg/L | 4 | 0 | 107 | 80 | 120 | 4.275 | 0.102 | 20 | |

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW7421** Units: **µg/L** Analysis Date **3/20/07 4:48:55 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320E** SeqNo: **599722**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 28.03 | 5.0 | µg/L | 25 | 0 | 112 | 80 | 120 | 0 | | | |

Sample ID **LCS-16891D** Batch ID: **16891** Test Code: **SW7421** Units: **µg/L** Analysis Date **3/20/07 4:56:01 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320E** SeqNo: **599723**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 26.61 | 5.0 | µg/L | 25 | 0 | 106 | 80 | 120 | 28.03 | 5.19 | 20 | |

**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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW7041** Units: **µg/L** Analysis Date **3/20/07 4:48:55 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320F** SeqNo: **599759**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 26.57 | 6.0 | µg/L | 25 | 0 | 106 | 80 | 120 | 0 | | | |

Sample ID **LCS-16891D** Batch ID: **16891** Test Code: **SW7041** Units: **µg/L** Analysis Date **3/20/07 4:56:01 PM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070320F** SeqNo: **599760**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 24.57 | 6.0 | µg/L | 25 | 0 | 98.3 | 80 | 120 | 26.57 | 7.83 | 20 | |

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW7740** Units: **µg/L** Analysis Date **3/21/07 10:35:35 AM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070321A** SeqNo: **600011**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | 23.65 | 5.0 | µg/L | 25 | 0 | 94.6 | 80 | 120 | 0 | | | |

Sample ID **LCS-16891D** Batch ID: **16891** Test Code: **SW7740** Units: **µg/L** Analysis Date **3/21/07 10:42:51 AM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070321A** SeqNo: **600012**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | 23.79 | 5.0 | µg/L | 25 | 0 | 95.2 | 80 | 120 | 23.65 | 0.621 | 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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-16891** Batch ID: **16891** Test Code: **SW7841** Units: **µg/L** Analysis Date **3/21/07 10:35:35 AM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070321B** SeqNo: **600053**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 27.47 | 2.0 | µg/L | 25 | 0 | 110 | 80 | 120 | 0 | | | |

Sample ID **LCS-16891D** Batch ID: **16891** Test Code: **SW7841** Units: **µg/L** Analysis Date **3/21/07 10:42:51 AM** Prep Date **3/19/07**
Client ID: Run ID: **GFAA-6000_070321B** SeqNo: **600054**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 27.77 | 2.0 | µg/L | 25 | 0 | 111 | 80 | 120 | 27.47 | 1.05 | 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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Sample Matrix Spike

Sample ID **0703055-01ems** Batch ID: **16900** Test Code: **SW7470A** Units: **µg/L** Analysis Date **3/21/07 2:39:28 PM** Prep Date **3/20/07**
Client ID: **002914-W1** Run ID: **HG-FIMS_070321B** SeqNo: **599956**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.243 | 0.20 | µg/L | 4 | 0 | 106 | 75 | 125 | 0 | | | |

Sample ID **0703055-01emsd** Batch ID: **16900** Test Code: **SW7470A** Units: **µg/L** Analysis Date **3/21/07 2:43:15 PM** Prep Date **3/20/07**
Client ID: **002914-W1** Run ID: **HG-FIMS_070321B** SeqNo: **599957**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.438 | 0.20 | µg/L | 4 | 0 | 111 | 75 | 125 | 4.243 | 4.48 | 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:** *19-Apr-07*

**CLIENT:** GEI Consultants, Inc.
**Work Order:** 0703055
**Project:** 00291-4 Canton Airport

# QC SUMMARY REPORT

Sample Duplicate

Sample ID **0703055-01ed** Batch ID: **16900** Test Code: **SW7470A** Units: **µg/L** Analysis Date **3/21/07 2:35:40 PM** Prep Date **3/20/07**

Client ID: **002914-W1** Run ID: **HG-FIMS_070321B** SeqNo: **599955**

| Analyte | QC Sample Result | RL | Units | QC Spike Amount | Original Sample Result | %REC | LowLimit | HighLimit | Original Sample or MS Result | %RPD | RPDLimit | Qua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 0.20 | µg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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