2008 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING REPORT

United Technologies Corporation
Pratt & Whitney
F&H Buildings
East Hartford, Connecticut

January 2009

Volume 3 of 3

Prepared for

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Loureiro Engineering Associates, Inc.

January 19, 2009

State of Connecticut
Department of Environmental Protection
Remediation Division
79 Elm Street
Hartford, CT 06016-5127

Attn: Gil Richards

RE: United Technologies Corporation
Pratt & Whitney Division
Post-Remediation Maintenance and Monitoring
F&H Buildings, Pratt & Whitney East Hartford, Connecticut
LEA Comm. No. 88UT709

Dear Mr. Richards:

In accordance with Appendix B and C of the document entitled *Remedial Action Work Plan and Request for Variance Engineered Control of Polluted Soils, F&H Buildings Remediation Project,* approved by the Department of Environmental Protection on June 8, 2005, attached please find the 2008 Annual Post-Remediation Maintenance and Groundwater Monitoring Report for F&H Buildings. The maintenance and monitoring activities were initiated following the December 6, 2006 completion of remediation activities at F&H Buildings.

If you should have any questions or comments, please contact me at (860) 410-2969 or Joe Tota of United Technologies Corporation at (860) 728-6510.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Tom Salimeno, P.E., L.E.P.
Vice President

Attachment

cc: Maurice Hamel, DEP
Juan Perez, EPA
Lauren Levine, UTC
Joseph Tota, UTC
John Wotus, P&W

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ACRONYMS

CTDEP	Connecticut Department of Environmental Protection
DQA	Data Quality Assessment
DQO	Data Quality Objective
DUE	Data Usability Evaluation
ELUR	Environmental Land Use Restriction
ETPH	Connecticut Extractable Total Petroleum Hydrocarbons
EPA	United States Environmental Protection Agency
GIS	Geographic Information System
GWPC	Groundwater Pollutant Criteria
IDEC	Industrial/Commercial Direct Exposure Criteria
IVC	Industrial/Commercial Volatilization Criteria
LCS	Laboratory Control Sample
LEA	Loureiro Engineering Associates, Inc.
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethylene
PMC	Pollutant Mobility Criteria
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
RAWP	Remedial Action Work Plan and Request for Variance Engineered Control for Polluted Soil
RCP	Reasonable Confidence Protocol
RCSA	Regulations of Connecticut State Agencies
RDEC	Residential Direct Exposure Criteria
RPD	Relative Percent Difference
RSR	Remediation Standard Regulation
RVC	Residential Volatilization Criteria
SPLP	Synthetic Precipitate Leaching Procedure
SWPC	Surface Water Protection Criteria
TCA	1,1,1-Trichloroethane
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
UTC	United Technologies Corporation
VC	Volatilization Criteria
VOC	Volatile Organic Compound

UNITS

fbg	feet below ground surface
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
µg/l	micrograms per liter

1. INTRODUCTION

United Technologies Corporation (UTC)/Pratt & Whitney retained Loureiro Engineering Associates, Inc. (LEA), to perform the post-remediation groundwater monitoring and maintenance activities associated with the remediation of polychlorinated biphenyl (PCB) contaminated concrete and soil at areas underlying the former F&H Buildings at the UTC/Pratt & Whitney manufacturing facility in East Hartford, Connecticut (herein after referred to as the "Site"). The remediation of concrete and soil underlying the Site was undertaken by UTC/Pratt & Whitney on a voluntary basis in accordance with the document entitled *Remedial Action Work Plan and Request for Variance Engineered Control for Polluted Soil* (RAWP), approved by the Connecticut Department of Environmental Protection (CTDEP) on June 8, 2005. The F&H Buildings Remediation Project was completed on December 6, 2006.

The following report has been prepared in accordance with Appendix B and C of the CTDEP approved RAWP (LEA, 2004). The report presents the 2008 annual summary of groundwater and maintenance monitoring conducted to verify the adequacy of the remediation and long-term effectiveness of the engineered control installed at the F&H Buildings Remediation Project Area.

As detailed in Section 5, PCBs were not detected in any of the groundwater samples collected and analyzed in 2008. The absence of detectable concentrations of PCBs in groundwater is an indication that the remediation activities performed to date have been effective in eliminating PCBs as a groundwater contaminant source.

At this time, there is insufficient groundwater data to make a compliance determination relative to Section 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA), herein referred to as the Connecticut Remediation Standard Regulations (RSRs). As specified by the regulations, a minimum of two years of quarterly groundwater monitoring is required to demonstrate compliance with the RSRs. Additional groundwater monitoring is scheduled to be performed in accordance with the approved RAWP (LEA, 2004).

2. LOCATION AND SITE DESCRIPTION

The UTC/Pratt & Whitney East Hartford manufacturing facility is located at 400 Main Street in East Hartford, Connecticut. The facility encompasses approximately 862 acres of contiguous land. Pratt & Whitney initiated aircraft engine manufacturing operations in East Hartford in December 1929. Current operations are conducted in an approximate 4 million square foot complex and include administration and management, manufacturing, testing, research and development and ancillary services. All of these activities take place in the western portion of the 862-acre property. A site location map is included as Figure 2-1.

Approximately 55 acres of grounds and 112 acres of parking lots, roads, and walkways are maintained as part of the main complex. To the east of the main complex lies Rentschler Field and to the northeast is the United Technologies Research Center. The Rentschler Airport and the Klondike Area occupy the eastern portion of the property. Pratt & Whitney previously used these two areas as an airport and a storage/testing area, respectively. On the northern end of the Airport Area is a 75-acre portion of the Site (i.e., the Stadium Parcel) that was given to the State of Connecticut and subsequently developed as a football stadium (Rentschler Field). The F&H Buildings Project Area is located in the northern portion of the Main Street facility and is approximately 864,000 square feet in area.

3. BACKGROUND

This section provides a summary of previous environmental investigations conducted in the vicinity of the F&H Buildings Project Area at the Pratt & Whitney facility. Several investigations have been conducted at the facility by LEA as well as other consultants. Between June 2002 and September 2003, LEA conducted a comprehensive Phase I/Phase II/Phase III Investigation in the vicinity of F&H Buildings. This investigation was undertaken on a voluntary basis to assess the environmental issues associated with the demolition of F&H Buildings conducted in 2005 and 2006. Additional information on the Site background and previous environmental investigations can be found in the RAWP (LEA, 2004) and in the report titled *Remedial Action Report - F&H Buildings Remediation Project* (RA Report) prepared by LEA in January 2007 and submitted to the United States Environmental Protection Agency (EPA) and the CTDEP on February 2, 2007.

Subsurface investigation activities included soil and groundwater sampling in order to assess the nature and extent of contamination underlying the project area and to evaluate soil relocation for proposed subsequent activities planned for the area. The Phase I/Phase II/Phase III Investigation also included sampling and analysis of wood block and concrete flooring within the F&H Buildings.

3.1 Summary of Soil Contamination

The following is a general description of the nature and extent of contamination present prior to the remedial activities within the project area based on exceedances of the RSRs. It should be noted that in the following presentation an assumption was been made that the Site would be subject to an ELUR precluding residential activity. This is consistent with the approaches that have been taken during the other remedial activities at the Site. As a result, the presentation does not address the presence of compounds or constituents in excess of the Residential Direct Exposure Criteria (RDEC) and rather focuses on those compounds or constituents in excess of the Industrial/Commercial Direct Exposure Criteria (IDEC). Additional information on soil contamination can be founding the RAWP (LEA, 2004) and in the RA Report (LEA, 2007).

While the subsurface investigation activities previously conducted were adequate to support an assessment of areas that required remediation to comply with the requirements of the RSRs, it was recognized that additional evaluation of the extent of contamination present would be completed during the confirmatory soil sampling conducted during the remediation activities.

To accommodate the uncertainty associated with the vertical and lateral extent of contamination, a conservative assessment was made in establishing the project limits.

Exceedances of the IDEC and/or the GB Pollutant Mobility Criteria (GB PMC) were noted for PCBs, total petroleum hydrocarbons (TPH) and metals. Contamination was identified in soils within the project area at depths ranging from approximately 0 to 16 feet below ground surface (fbg). Contaminants of concern were also detected within the concrete slabs.

PCB concentrations exceeded the RDEC in four soil samples from soil boring locations HB-SB-02, HB-SB-16, and HB-SB-19. It should be noted that these soil samples were collected from depths ranging from 0 to 10 fbg. One exceedance of the IDEC was detected in the soil samples submitted for analysis. PCBs concentrations exceeded the IDEC in the soil sample collected from the 0 to 4 foot interval of soil boring location HB-SB-19.

Concentrations of PCBs exceeded the IDEC and RDEC in numerous concrete chip samples collected from throughout F&H Buildings. One concrete chip sample exceeded the tabulated numeric IDEC. Specifically, arsenic exceeded the IDEC of 10 milligrams/kilogram (mg/kg) in the concrete chip sample from sampling location HB-CC-03.

Concentrations of PCBs exceeded the GB PMC in soil samples collected from soil boring locations FB-SB-02, FB-SB-03, FB-SB-07, FB-SB-09, and FB-SB-10 located within F Building. Additionally, the concentrations of chromium and copper exceeded the GB PMC in the soil sample analyzed following extraction by the Toxicity Characteristic Leaching Procedure (TCLP) from soil boring location HB-SB-02. It should be noted that each of these samples were collected at depths ranging from 0 to 4 fbg.

In the absence of the Synthetic Precipitation Leaching Procedure (SPLP) or TCLP analyses, concentrations of cadmium, chromium, copper, lead, nickel, and PCBs exceeded twenty times the GB PMC in several soil samples collected within the footprint of the F&H Buildings at depths ranging from 0 to 12 fbg.

Cadmium exceeded the GB PMC in the concrete sample collected from sample location HB-CC-11. Chromium exceeded the GB PMC in the concrete samples from sample locations HB-CC-01 and HB-CC-05. Additionally, PCE exceeded the GB PMC in the concrete sample from sample location HB-CC-08.

In the absence of SPLP or TCLP analyses, concentrations of arsenic, cadmium, chromium, cyanide, lead, silver, and PCBs exceeded 20 times the GB PMC in numerous concrete samples collected from throughout F&H Buildings.

3.2 Summary of Groundwater Contamination

Groundwater samples were collected from a number of locations within the project area during the investigation activities conducted from June 2002 to September 2003, as well as during the 2007 post-remediation groundwater monitoring. Additional information on groundwater quality can be found in the RAWP (LEA, 2004), the RA Report (LEA, 2007), and the 2007 Annual Post-Remediation Maintenance and Groundwater Monitoring Report (LEA, 2008). The following is a summary of the results of the analysis performed on groundwater samples. The summary is presented by analytical class.

3.2.1 Polychlorinated Biphenyls

PCBs were detected in two groundwater samples collected during investigation of the project area from June 2002 to September 2003. PCBs were detected in the groundwater samples collected from monitoring wells HB-MW-01 and HB-MW-03 at concentrations of 780 micrograms per liter (µg/l) and 43 µg/l, respectively. PCBs were not detected in any groundwater samples collected during the 2007 post-remediation groundwater monitoring.

3.2.2 Volatile Organic Compounds

Volatile organic compounds (VOCs) were detected in all of the groundwater samples collected during investigation activities conducted within the project area from June 2002 to September 2003. A total of nine VOCs were detected in groundwater samples collected during this time. The table below includes the VOC detected, the maximum concentration detected, and the location at which the maximum concentration was detected.

Volatile Organic Compound	Maximum Concentration Detected (µg/l)	Location of Maximum Concentration
1,1,1-Trichloroethane (TCA)	231	HB-MW-02
Chloroethane	102	HB-MW-03
1,1-Dichloroethane	8.4	HB-MW-03
1,1-Dichloroethylene	12.0	HB-MW-02
cis-1,2-Dichloroethylene	5.6	FB-SB-06
Methylene Chloride	2.0	HB-MW-01

Tetrachloroethylene (PCE)	996	FB-SB-06
Trichloroethylene (TCE)	23.7	FB-SB-06
Vinyl Chloride	3.9	HB-MW-03

VOCs were detected in 14 of the 21 groundwater samples collected during the 2007 post-remediation groundwater monitoring. A total of thirteen VOCs were detected in groundwater samples during the three quarterly groundwater sampling events. The table below includes the VOC detected, the maximum concentration detected, the location at which the maximum concentration was detected, as well as the monitoring quarter during which the maximum concentration was detected.

Volatile Organic Compound	Maximum Concentration Detected (µg/l)	Location of Maximum Concentration	Quarter Maximum Concentration Detected
TCA	7.5	HB-MW-06	June 2007
1,1,2-Trichloroethane	1.6	HB-MW-06	September 2007
1,2,4-Trimethylbenzene	7.4	FB-MW-01	December 2007
1,3,5-Trimethylbenzene	11.3	FB-MW-01	September 2007
1,1-Dichloroethane	1.5	HB-MW-06	September 2007
2-Hexanone	12.1	FB-MW-01	September 2007
Benzene	4.8	FB-MW-01	June 2007
cis-1,2-Dichloroethylene	2.7	FB-MW-02	December 2007
Isopropylbenzene	5.3	FB-MW-01	December 2007
Naphthalene	8.8	FB-MW-01	December 2007
PCE	113	FB-MW-02	December 2007
TCE	3.1	HB-MW-06	September 2007
o-Xylene	49.3	FB-MW-01	September 2007

3.2.3 Extractable Total Petroleum Hydrocarbons

Extractable total petroleum hydrocarbons (ETPH) was detected in two of the four groundwater samples collected during investigation activities conducted from June 2002 to September 2003. ETPH was detected in the groundwater samples collected from monitoring wells HB-MW-01 and HB-MW-03 at concentrations of 59.5 milligrams per liter (mg/l) and 0.7 mg/l, respectively.

ETPH was detected in 19 of the 21 groundwater samples groundwater samples collected during the 2007 post-remediation groundwater monitoring. The maximum concentration of ETPH detected was 1.89 mg/l in the groundwater sample from monitoring well FB-MW-01 during the June 2007 monitoring event.

3.2.4 Metals

Metals were detected in one of the four groundwater samples collected from the project area during investigation activities in June 2002 through September 2003. Specifically, barium, chromium, and zinc were detected in a groundwater sample collected from monitoring well HB-MW-01 at concentrations of 0.414 mg/l, 0.012 mg/l, and 0.0246 mg/l, respectively.

Metals were detected in 6 of the 21 groundwater samples collected during the 2007 post-remediation groundwater monitoring. A total of five metals were detected in groundwater samples. The table below includes the metal detected, the maximum concentration detected, the location at which the maximum concentration was detected, as well as the monitoring quarter during which the maximum concentration was detected.

Metal	Maximum Concentration Detected (mg/l)	Location of Maximum Concentration	Quarter Maximum Concentration Detected
Arsenic	0.0076	HB-MW-04	September 2007
Chromium	0.135	HB-MW-05	December 2007
Copper	0.0421	HB-MW-05	December 2007
Lead	0.0054	HB-MW-04	September 2007
Nickel	0.101	HB-MW-05	December 2007

4. 2008 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities were performed in 2008 in accordance with subsection (f) of Section 22a-133k-3 of the RCSA also referred to as the RSRs. The groundwater monitoring plan detailed in Appendix B of the RAWP (LEA, 2004) and Appendix R of the RA Report (LEA, 2007) was designed to determine:

- The effectiveness of soil remediation in preventing further pollution of groundwater by substances from the release area.
- The effectiveness of any remediation taken to eliminate or minimize identified health or safety risks associated with such release.
- Whether applicable surface water protection criteria and volatilization criteria have been met.

In May 2007, a total of six groundwater monitoring wells (FB-MW-01, FB-MW-02, and HB-MW-04 through HB-MW-07) were installed around and within the F&H Project Area. The locations of these monitoring wells are depicted on the Site Plan included as Figure 4-1 of this report.

4.1 Description of Groundwater Monitoring Activities

In 2008, groundwater samples were collected during four quarterly events (March, June, September, and December) from the six groundwater monitoring wells installed at the Site in 2007 by LEA. All groundwater samples were sent under chain of custody control to TestAmerica Connecticut (TestAmerica) of Shelton, Connecticut and were analyzed for the following parameters: PCBs by EPA Method 8082; VOCs by EPA Method 8260B; ETPH by the CTDEP approved method; and total metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc). In addition, a minimum of one duplicate sample, one trip blank sample, and one equipment blank sample were collected and analyzed during each sampling event. Copies of field paperwork are included as Appendix A of this report.

4.2 Groundwater Elevations

Depth to groundwater was measured in all six monitoring wells using an electronic water level indicator. Groundwater levels were measured to the nearest 0.01 foot. Water level measurements were collected on the following four dates by an LEA representative: March 11, 2008; June 3, 2008; September 8, 2008; and, December 2, 2008. Water-level

information was used to evaluate groundwater flow directions and horizontal hydraulic gradients in the upper portion of the unconsolidated aquifer. Generalized groundwater contour maps from the March, June, September, and December 2008 monitoring events have been included as Figures 4-2 through 4-5, respectively.

4.3 Quality Assurance and Quality Control Procedures

During the course of the 2008 post-remediation monitoring, a significant amount of information was obtained for the Site. This information included analytical data for groundwater samples; field activities documentation; sample tracking documentation; and other documentation associated with sample collection and analysis. Ensuring that the data generated during the post-remediation monitoring was of sufficient quality to meet the data quality objectives (DQOs) for the project, performance and documentation of quality assurance/quality control (QA/QC) procedures for field and office activities was essential and required performance and documentation of QA/QC procedures for field and office activities. The DQOs were developed for the Post-Remediation Groundwater Monitoring Program for the Site to ensure that:

- Samples collected were of sufficient quality and quantity to assess the groundwater conditions at the Site.
- Data obtained were of sufficient quality and quantity to support a regulatory compliance determination.
- Data were sufficient to determine handling and disposal requirements for purged groundwater and decontamination solutions generated during the post-remediation groundwater monitoring activities.

QA/QC activities were necessary to document, manage, validate, verify, organize, and present the data compiled during the investigation.

The various types of QA/QC procedures used to ensure that the quality of data generated during the investigation would be sufficient to meet the DQOs for the project are presented in the document entitled, *Quality Assurance/Quality Control and Data Management Procedures*, which is included in Appendix B of this report. The DQOs for the Post-Remediation Groundwater Monitoring Program addressed the intended use of the analytical results for evaluating compliance with the applicable regulatory criteria identified in the RSRs. Both field QA/QC procedures and procedures performed in the laboratory during the analysis of samples were necessary to ensure the quality of the analytical data used for compliance determination.

The evaluation of laboratory QA/QC information includes a Data Quality Assessment (DQA) and a Data Usability Evaluation (DUE) that was performed in accordance with procedures described in the November 2007 guidance document entitled *Reasonable Confidence Protocols,* published by the CTDEP.

4.3.1 Field QA/QC Procedures

Field QA/QC procedures included those activities associated with the actual collection and management of samples of groundwater, as well as the collection of such field QA/QC samples as trip blanks, equipment blanks, and duplicate samples. In addition to the field QA/QC samples, the analytical program for the Post-Remediation Groundwater Monitoring Program included the submittal of Performance Evaluation (PE) samples to the analyzing laboratory. Those PE samples were submitted to the laboratory along with the field samples and were not identified as PE samples to the laboratory. Appendix B provides a description of the field QA/QC procedures performed, an evaluation of field QA/QC sampling frequency with respect to the objectives for such sampling, and a discussion and evaluation of the analytical results for those samples.

In general, field QA/QC samples were collected and analyzed at a frequency that met or exceeded the project-specific objectives. Analytical results for field QA/QC samples were reviewed to evaluate whether the analytical data for the groundwater samples associated with the field QA/QC samples would be usable for decision-making purposes. Although a limited number of issues were identified throughout the course of the project, the issues identified were such that the analytical data for samples of groundwater collected during the post-remediation groundwater monitoring were considered usable for the intended purpose. The issues and conclusions associated with the evaluation of field QA/QC are described in Appendix B.

4.3.2 Laboratory QA/QC Procedures

Data collected during the 2008 Post-Remediation Groundwater Monitoring were analyzed using Reasonable Confidence Protocol (RCP) methodologies, which are analytical methods specifically identified by CTDEP as providing appropriate QA/QC requirements to help ensure that the quality of data generated using those methods will be sufficient for the intended purpose. The RCP analytical methods are based on the respective EPA methods. The RCPs provide specific requirements for QA/QC that the laboratory must follow during analysis of environmental samples. In addition, the RCP methods require the laboratory to report the QA/QC analytical data associated with the analysis of each sample in the laboratory report and

further require that the laboratory provide a narrative of any non-conformances for QA/QC data that were outside the acceptable limits for such data, as described in the specific RCP method.

Laboratory QA/QC procedures were performed in accordance with the specific RCP analytical methods appropriate for the analyses being performed. Each of the methods identifies specific QA/QC procedures that the laboratory must follow during analysis. In some cases, the methods also indicate what QA/QC information the laboratory must include in the laboratory analytical report for the associated samples. In other cases, the QA/QC information reported by the laboratory is determined by the type of QA/QC review that will be performed on the analytical data.

The CTDEP stated in a policy letter dated April 18, 2007, the expectation that analytical data generated after September 1, 2007, would be generated using the RCP methods. That policy letter was followed by a guidance document entitled, *Reasonable Confidence Protocols* that was published by the CTDEP in November 2007. Data collected during the 2008 Post-Remediation Groundwater Monitoring were evaluated with respect to quality by conducting a DQA and DUE in accordance with the methodology described in the November 2007 guidance document entitled *Reasonable Confidence Protocols*.

In addition to using RCP methodologies, PE samples and various field QA/QC samples were collected throughout the course of the investigation. Evaluation of the results of QA/QC sampling and analyses that were performed for the laboratory analytical data, including the DQA, is provided in Appendix B. The results of the DUE are provided in Section 5.2.

5. GROUNDWATER QUALITY

This section summarizes the results of groundwater sampling performed at the Site during the quarterly sampling events completed in 2008. Specifically, the following subsections summarize the reported concentrations for each constituent and provide a discussion of the results of the QA/QC measures employed for the groundwater sampling conducted at the Site.

5.1 Summary of 2008 Analytical Data

A total of 28 groundwater samples (including monitoring well groundwater samples and one duplicate sample per quarter) were collected during the four quarterly monitoring events in 2008. All 28 groundwater samples were analyzed for PCBs, VOCs, ETPH, and unfiltered total metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc). A summary of sampling and analytical information is included as Table 5-1. Constituents detected in groundwater are summarized in Table 5-2. Laboratory analytical reports for 2008 are presented in Appendix B. The following sections include a summary of laboratory results for each group of analytes.

5.1.1 Polychlorinated Biphenyls

PCBs were not detected in any of the 28 groundwater samples that were submitted for analysis. The significance of these results is discussed in Section 5.3.4.

5.1.2 Volatile Organic Compounds

One or more VOCs were detected in 22 of the 28 groundwater samples collected during the 2008 post-remediation groundwater monitoring. A total of fourteen different VOCs were detected in groundwater samples during the four quarterly groundwater sampling events. However, two of the VOCs detected (acetone and methylene chloride) are common laboratory contaminants and based on the low concentrations detected, their presences is most likely not attributable to groundwater contamination. As such these two VOCs have been excluded from further discussions. The table below includes the VOC detected, the maximum concentration detected, the location at which the maximum concentration was detected, as well as the monitoring quarter during which the maximum concentration was detected.

Volatile Organic Compound	Maximum Concentration Detected (µg/l)	Location of Maximum Concentration	Quarter Maximum Concentration Detected
TCA	6.7	HB-MW-07	December 2008
1,1,2-Trichlorotrifluoromethane	0.33 J	HB-MW-06	March 2008
1,1-Dichloroethane	0.43 J	HB-MW-06	March 2008
Benzene	0.22 J	FB-MW-01	March 2008
cis-1,2-Dichloroethylene	1.2	FB-MW-02	June 2008
Isopropylbenzene	1.9	FB-MW-01	December 2008
PCE	57	FB-MW-02	September 2008
TCE	1.7	HB-MW-06	December 2008
Trichlorotrifluoromethane	1.4	HB-MW-04	September 2008
Xylene, total	0.49 J	FB-MW-01	March 2008
sec-Butylbenzene	0.42 J	HB-MW-06	March 2008
tert-Butylbenzene	1.5	HB-MW-06	June 2008
Notes: The "J" qualifier indicates an estimated value.			

5.1.3 Extractable Total Petroleum Hydrocarbons

ETPH was detected in 18 of the 28 groundwater samples collected during the four 2008 post-remediation groundwater monitoring events. The maximum concentration of ETPH detected was 1.4 M mg/l in the groundwater sample collected from monitoring well FB-MW-01 during the March 2008 monitoring event. The "M" qualifier indicates a manually integrated compound. Manual integration is used when automated quantitation procedures in the chromatographic software fail to integrate peaks properly. Software integration problems usually occur when there are compound co-elutions, baseline noise, baseline irregularities or matrix interferences. This situation is corrected by the analyst and properly documented in accordance with a pre-defined set of procedures.

Metals were detected in 18 of the 28 groundwater samples collected during the four 2008 post-remediation groundwater monitoring events. A total of six metals were detected in groundwater samples. The table below includes the metal detected, the maximum concentration detected, the location at which the maximum concentration was detected, as well as the monitoring quarter during which the maximum concentration was detected.

Metal	Maximum Concentration Detected (mg/l)	Location of Maximum Concentration	Quarter Maximum Concentration Detected
Arsenic	0.0029 J	HB-MW-04	March 2008
Barium	0.29	HB-MW-05	March 2008
Total Chromium	0.041	HB-MW-05	March 2008
Copper	0.051	HB-MW-05	March 2008
Nickel	0.049	HB-MW-05	March 2008
Zinc	0.05	HB-MW-06, HB-MW-07	September 2008
Note: the "J" qualifier indicates an estimated value.			

5.2 Data Quality Assessment and Data Usability Evaluation

In accordance with the QA/QC guidance document published by the CTDEP in November 2007, a DQA and a DUE were performed to determine if the quality of the data generated during the 2008 post-remediation groundwater monitoring events were suitable for the intended purpose, which was to verify the adequacy of the remediation and long-term effectiveness of the engineered control installed at the F&H Buildings Remediation Project Area. The first step in the process was to assess the quality of the analytical data in each laboratory report package with respect to the requirements for each RCP analytical method (or suitable alternative method).

The DQA was performed to assess the quality of the analytical data in each laboratory analytical report package for samples analyzed using RCP methods. The considerations used during the DQA are those described in the November 2007 guidance document. The DQA resulted in identifying data for which the quality could affect its potential use in decision-making. The DUE, which took into account the objectives for the data collection effort, and the intended use of the data, was performed using the information developed during the DQA. The results of the DQA and DUE are described in detail in Appendix B. The DQA worksheets are included as an attachment to Appendix B.

Results of the DUE indicated that, with few exceptions, the data generated during the 2008 Post-Remediation Groundwater Monitoring Program were usable for the intended purpose. However, several issues related to data quality were noted during the DQA. These issues included:

- Surrogate recoveries outside the accepted range of variability for PCBs;
- Laboratory Control Spike (LCS) recoveries for outside the accepted range of variability; and
- Initial calibration curve and continuing calibration curve recoveries outside the accepted range of variability for select VOC constituents.

A more detailed discussion of the laboratory QA/QC results, as these were identified during the DQA, is provided in Appendix B.

The data-quality issues that were identified during the DQA were evaluated during the DUE, taking into consideration the number and type of QA/QC issues identified during the DQA, the number and the locations of samples collected during the 2008 post-remediation monitoring activities. Collectively, these factors provide support for a conclusion that analytical results for the samples collected during the four 2008 post-remediation groundwater monitoring events were considered usable for decision-making purposes.

5.3 Evaluation of 2008 Analytical Results Relative to Regulatory Criteria

The analytical data for groundwater samples collected from the four quarters of groundwater monitoring conducted in 2008 for post-remediation groundwater monitoring at the Site were compared to applicable numeric criteria established in the RSRs for groundwater. These criteria are designed to protect existing uses of groundwater, surface water quality where groundwater plumes discharge into water bodies, and air quality from the effects of vapors emanating from VOCs present in contaminated groundwater.

According to the Ground Water Quality Classification data-layer in the most recent CTDEP Geographic Information system (GIS) database, groundwater beneath the Site and surrounding areas is designated as "GB". According to the CTDEP Water Quality Standards (Ground Water Quality Standards Effective April 12, 1996), groundwater classified as GB is presumed not suitable for human consumption without treatment. In "GB" groundwater quality areas, the groundwater protection aspect of the RSRs is designed to preserve water quality to permit the existing uses of groundwater and prevent further degradation of groundwater quality. No specific Ground Water Protection Criteria (GWPC) exists for groundwater in GB areas.

Applicable criteria in the RSRs for those areas where groundwater is classified as GB include the Surface Water Protection Criteria (SWPC) and Volatilization Criteria (VC). To satisfy the SWPC, the average concentration of contaminants within a groundwater plume that discharges to a surface water body or the concentration of contaminants within the portion of the plume directly upgradient of the surface water body, must be lower than the SWPC for that specific constituent.

Concentrations of constituents detected in groundwater samples from the above-described sampling activities were compared to the Industrial/Commercial VC (IVC) of the RSRs. The current VC applies only to VOCs in groundwater within 15 feet of the ground surface beneath a

building. Comparison of the groundwater analytical data was also made to the proposed IVC presented in the document entitled, ***Proposed Revisions, Connecticut's Remediation Standard Regulations, Volatilization Criteria,*** prepared by the Permitting, Enforcement and Remediation Division, Bureau of Water Management, CTDEP, dated March 2003. The CTDEP's proposed VC were prepared to be more consistent with the EPA Draft Guidance Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soil that was issued in November 2002. These CTDEP-proposed changes specify that the VC would apply to locations where groundwater is within 30 feet of the ground surface beneath a building (in contrast to the current depth of 15 feet).

The VC were developed to address the potential for VOCs volatilized from groundwater to migrate through the unsaturated zone to the ambient air at concentrations that would pose an unacceptable risk to occupants in a building. If the contaminated groundwater with exceedances of the residential VC (RVC) is located below a building used for industrial/commercial activity, and not residential activity, an Environmental land Use Restriction (ELUR) must be in place to restrict future residential use. The RVC encompass the same compounds as the IVC, but are typically more stringent due to the differences in exposure assumptions for each usage scenario. Exceedances of the RVC or IVC are acceptable in situations where an ELUR has been filed and appropriate engineering measures (i.e., sub-slab ventilation system or other barrier) prevent the migration of VOCs into any overlying building, providing that the proper maintenance, monitoring, and notifications are performed. Both the current and 2003 draft IVC were evaluated, as a draft ELUR prohibiting the use of the Site for residential purposes has been submitted to the CTDEP for review and approval. To date, this draft ELUR has not been reviewed or approved by the DEP. It should be noted that based on the groundwater contours and previous investigations, the groundwater from the vicinity of the Site does not flow toward or beneath any residential buildings surrounding the Pratt & Whitney facility. As such the groundwater from the Site does not affect any nearby residential properties.

5.3.1 Groundwater Protection Criteria

Numeric GWPC have not been promulgated for GB areas. The groundwater provisions of the RSRs require that for compliance to be demonstrated, the quality of water associated with releases must not interfere with existing uses. Existing uses of groundwater in the vicinity of the the Site or the Pratt & Whitney facility as a whole have not been documented. However, the concentrations of constituents detected in the groundwater samples collected at the Site are not expected to interfere with existing uses.

5.3.2 Surface Water Protection Criteria

Groundwater analytical results for samples collected during the 2008 post-remediation groundwater monitoring events were compared to the default numeric SWPC. Copper was the only constituent detected in the groundwater samples at a concentration exceeding the applicable default numeric SWPC during 2008. Copper was detected at a concentration of 0.051 mg/l in the groundwater sample collected from monitoring well HB-MW-05 during the March 2008 monitoring event, exceeding the default numeric SWPC of 0.048 mg/l.

Monitoring well HB-MW-05 is located over 900 feet from the nearest surface water body and the groundwater in this area does not discharge directly into the surface water. Therefore, compliance with the SWPC for copper can be demonstrated for the project area through alternative methods specified in the RSRs.

No other contaminants exceeded their respective SWPC. However, it should be noted that the analytical reporting limits for arsenic in all groundwater samples collected during the March 2008 and June 2008 monitoring events were above the default numeric SWPC. The reporting limits for PCBs were also above the default numeric SWPC for all groundwater samples collected in 2008.

5.3.3 Industrial/Commercial Volatilization Criteria

An evaluation of the groundwater analytical data for groundwater samples collected during the four post-remediation groundwater monitoring events conducted in 2008 to both the current and 2003 Draft IVC. This evaluation indicated that no VOC was detected at a concentration exceeding either the existing or 2003 Draft IVC.

5.3.4 Compliance Determination

There is insufficient groundwater data at this time to make a compliance determination relative to the RSRs. As required by the regulations, a minimum of two years of quarterly groundwater monitoring are necessary in order to substantiate the presence or absence of trends in contaminant concentrations at particular monitoring wells. However, the absence of detectable concentrations of PCBs in groundwater is an indication that the remediation activities performed to date have been effective in eliminating PCBs as a groundwater contaminant source. Additional groundwater data will be collected in accordance with the approved RAWP (LEA, 2004) to substantiate further assessments.

5.4 Observed Trends in Groundwater

Graphs were prepared for those compounds detected in more than one groundwater samples during post-remediation groundwater monitoring. Separate graphs were prepared for ETPH. A copy of each graph representing contaminant concentrations from June 2007 through December 2008 are presented in Appendix C. It should be noted that during the generation of contaminant concentration graphs, a value of one half of the reporting limit was established for graphing purposes in each instance where a particular constituent or compound was reported as a non-detect. The following is a discussion of observed trends by analyte class.

5.4.1 Polychlorinated Biphenyls

PCBs have not been detected in groundwater sample collected during the post-remediation groundwater monitoring program. However, it should be noted that the reporting limit for total PCBs for all of the groundwater samples collected during 2008 were above the default numeric SWPC.

5.4.2 Volatile Organic Compounds

One or more VOCs have been detected in groundwater samples from all six monitoring wells. The predominant VOCs detected include TCA, PCE, and TCE. Based on an evaluation of the graphs including data from June 2007 to present, no discernable upward or downward trends were observed for VOCs in groundwater samples with the possible exception of TCA in groundwater samples for monitoring well HB-MW-07. The concentration of TCA in the groundwater samples from this monitoring well increased for the second consecutive quarter from approximately 0.5 µg/l in June 2008 to 7 µg/l in December 2008. Despite the possible increasing trend, the concentration of TCA remains well below both default numeric SWPC and RVC.

PCE was detected in the groundwater sample from monitoring well FB-MW-02 during the December 2007 monitoring event at a concentration exceeding the default numeric SWPC. No other exceedances of the applicable default numeric SWPC or IVC by VOCs has been identified in any other groundwater sample collected during the post-remediation groundwater monitoring program. However, it should be noted that the analytical reporting limits for acrylonitrile for all of the groundwater samples collected during 2007 were above the default numeric SWPC.

5.4.3 Extractable Total Petroleum Hydrocarbons

ETPH has been consistently detected in groundwater samples from monitoring wells FB-MW-01, HB-MW-06, and HB-MW-07. ETPH has also been detected periodically in groundwater samples from monitoring wells FB-MW-02, HB-MW-04 and HB-MW-05. ETPH was only detected in groundwater samples collected from monitoring well HB-MW-05 during the September 2007, March 2008, and September 2008 monitoring events. The highest concentration of ETPH observed in groundwater samples collected from June 2007 to the present was 1.89 mg/l from monitoring well FB-MW-01 during the June 2007 monitoring event. Based on an evaluation of the graphs presented in Appendix C, the concentrations of ETPH detected in groundwater samples from monitoring wells FB-MW-01 and HB-MW-06 have shown a downward trend since the first monitoring event in June 2007. No discernable upward or downward trends were observed for ETPH for groundwater samples from the remaining monitoring wells.

ETPH has not been detected at a concentration exceeding the default numeric SWPC in any groundwater samples collected during the post-remediation groundwater monitoring program.

5.4.4 Metals

Total chromium, copper and nickel have been detected on a consistent basis in the groundwater samples from monitoring well HB-MW-05. Arsenic was detected in groundwater samples from monitoring well HB-MW-04 during the first four quarters of post-remediation monitoring, but has not been detected during the last three events. Groundwater samples from all six monitoring wells, contained detectable concentrations of barium during 2008. Copper, lead, and zinc have been detected on one or more occasions in groundwater samples from monitoring wells HB-MW-04, HB-MW-06 and HB-MW-07 since June 2007.

As represented by the graphs in Appendix C, the concentrations of chromium, copper, and nickel in groundwater samples from monitoring well HB-MW-05 have remained fairly consistent. The concentrations of barium detected in groundwater samples all six monitoring wells have not shown any discernable trends. No other discernable upward or downward trends have been noted with respect to other metals.

Two metals detected in groundwater samples during the post-remediation groundwater monitoring program exceeded applicable groundwater criteria. Arsenic was detected at a concentration exceeding the default numeric SWPC in groundwater samples collected from monitoring well HB-MW-04 during all three sampling events conducted in 2007. In addition,

copper was detected at a concentration exceeding the default numeric SWPC in the groundwater sample collected from monitoring well HB-MW-05 during the March 2008 monitoring event. No other exceedances of the default numeric SWPC for metals have occurred during the post-remediation groundwater monitoring program. However, it should be noted that the analytical reporting limits for arsenic for all of the groundwater samples collected during the March 2008 and June 2008 monitoring events were above the default numeric SWPC.

6. 2008 MAINTENANCE MONITORING

The post-remediation maintenance program for the engineered control was developed to ensure that the structural integrity, design permeability, and effectiveness of the engineered control will be maintained. This maintenance program was developed to:

- Periodically inspect the engineered control.
- Identify measures to be taken to prevent run-on and run-off of stormwater from eroding or otherwise damaging the engineered control.
- Identify measures to be taken to correct the effects of any settling, subsidence, erosion or other damaging events or conditions.

The engineered control and the area surrounding the engineered control were inspected in March 2008 and September 2008 in the following areas:

1. Signs of erosion.
2. Signs of settling.
3. Signs of ponding and run on.
4. Damage to the pavement
5. Permanent Survey Markers for the Engineered Control
6. Monitoring well network.

The Post-Remediation Maintenance Monitoring Forms completed are included in Appendix D of this report.

6.1 Summary of Maintenance Monitoring Activities

During the March 2008 and September 2008 monitoring events, no deficiencies were observed for any of the inspection points, with the exception of minor ponding of rainwater observed in September 2008. However, based on the minimal extent of the ponding, it is not expected that the ponding would have any effect on the efficiency of the engineered control.

6.2 Corrective Action

No deficiencies were observed requiring corrective action during the 2008 monitoring events.

7. CONCLUSIONS

A total of four quarterly groundwater monitoring events were performed in 2008 in accordance with Appendix B and Appendix C of the RAWP (LEA, 2004) for the F&H Buildings Project Area. PCBs were not detected in any of the groundwater samples collected and analyzed in 2008. VOCs, ETPH, and metals (arsenic, barium, total chromium, copper, lead, nickel, and zinc) were detected in the groundwater samples analyzed during the four 2008 post-remediation groundwater monitoring events. Copper was the only constituent detected at a concentration exceeding the default numeric SWPC in any groundwater sample collected during the four 2008 post-remediation groundwater monitoring events. In addition, no VOC concentration detected exceeded the current or 2003 draft IVC in any groundwater sample analyzed during the four 2008 post-remediation groundwater monitoring events.

There is insufficient groundwater data at this time to make a compliance determination relative to the RSRs. As required by the regulations, a minimum of two years of quarterly post-remediation groundwater monitoring are necessary in order to further substantiate the presence or absence of trends in contaminant concentrations at particular monitoring wells at the Site. The absence of detectable concentrations of PCBs in groundwater is an indication that the remediation activities performed to date have been effective in eliminating PCBs as a groundwater contaminant source.

Maintenance monitoring inspections were conducted during the March 2008 and September 2008 quarterly monitoring events. No deficiencies were noted requiring corrective action during these inspections with the exception of minor ponding of rainwater observed in September 2008. However, based on the minimal extent of the ponding, it is not expected that the ponding would have any effect on the efficiency of the engineered control. Additional inspections and corrective action measures, if necessary, will continue to be implemented as part of the 2009 maintenance and monitoring program.

TABLES

Table 5-1
SUMMARY OF GROUNDWATER SAMPLING AND ANALYTICAL INFORMATION
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
FB-MW-01	1316369	03/11/2008	4.00 - 14.00	GWS		X			x	X	X	
FB-MW-01	1324117	06/03/2008	4.00 - 14.00	GWS		X			x	X	X	
FB-MW-01	1104638	09/08/2008	4.00 - 14.00	GWS		X			x	X	X	
FB-MW-01	1113230	12/02/2008	4.00 - 14.00	GWS		X			x	X	X	
FB-MW-02	1316374	03/11/2008	4.00 - 14.00	GWS		X			x	x	X	
FB-MW-02	1324114	06/03/2008	4.00 - 14.00	GWS		X			x	x	X	
FB-MW-02	1104640	09/08/2008	4.00 - 14.00	GWS		X			x	X	X	
FB-MW-02	1113227	12/02/2008	4.00 - 14.00	GWS		X			x	x	X	
HB-MW-04	1316368	03/11/2008	4.00 - 14.00	GWS		X			x	x	X	
HB-MW-04	1316371	03/11/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-04	1324112	06/03/2008	4.00 - 14.00	GWS		x			x	x	X	
HB-MW-04	1324120	06/03/2008	4.00 - 14.00	GWS		x			x	x	X	
HB-MW-04	1104641	09/08/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-04	1113226	12/02/2008	4.00 - 14.00	GWS		X			x	x	X	
HB-MW-05	1316373	03/11/2008	4.80 - 14.80	GWS		x			x	X	X	
HB-MW-05	1324113	06/03/2008	4.80 - 14.80	GWS		x			x	x	X	
HB-MW-05	1104632	09/08/2008	4.80 - 14.80	GWS		x			x	X	X	
HB-MW-05	1113231	12/02/2008	4.80 - 14.80	GWS		X			x	x	X	
HB-MW-05	1113235	12/02/2008	4.80 - 14.80	GWS		x			x	x	X	
HB-MW-06	1316372	03/11/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-06	1324115	06/03/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-06	1104636	09/08/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-06	1104637	09/08/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-06	1113228	12/02/2008	4.00 - 14.00	GWS		X			x	X	X	
HB-MW-07	1316370	03/11/2008	5.00 - 15.00	GWS		X			x	X	X	
HB-MW-07	1324116	06/03/2008	5.00 - 15.00	GWS		X			x	X	X	
HB-MW-07	1104633	09/08/2008	5.00 - 15.00	GWS		X			x	X	X	
HB-MW-07	1113232	12/02/2008	5.00 - 15.00	GWS		X			x	X	X	

Legend: x - mass, t - TCLP, s - SPLP, e - EPTOX, z - ZHE, d - Thermal Desorption, r - Charcoal Tube, a - SEM/AVS, m - Methanol, nr - not received; Capitalized - at least one analyte in class detected

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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01
	Sample ID	1316369	1316369	1324117	1324117	1104638	1104638	1104638
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	12:10	12:10	14:55	14:55	14:05	14:05	14:05
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-17	220-4404-6	220-5275-11	220-5275-12	220-6459-7	220-6459-8	220-6459-9
Constituent	Units							
Depth of Well	Ft	13.79	13.79	13.80	13.80	13.60	13.60	13.60
Depth to Water	Ft	9.08	9.08	9.68	9.68	9.05	9.05	9.05
Oxygen, Dissolved (field)	mg/L	1.19	1.19	0.81	0.81	5.87	5.87	5.87
Specific Conductivity (field)	uS/cm	350	350	564	564	368	368	368
Temperature	C	11.15	11.15	18.85	18.85	23.28	23.28	23.28
Turbidity (field)	NTU	1.05	1.05	0.95	0.95	1.72	1.72	1.72
pH (field measurement)	SU	6.02	6.02	5.63	5.63	5.36	5.36	5.36
Date Metals Analyzed	-	03/17/2008			06/17/2008			09/18/2008
Date Organics Analyzed	-		03/21/2008	06/07/2008		09/15/2008		
Date Physical Analyzed	-		03/20/2008	06/10/2008			09/22/2008	
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L	0.041			0.054			0.056
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	112.7	112.7	259.2	259.2	300.9	300.9	300.9
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		1.4 M	0.91			1.2	
Acetone	ug/L		1.8 J					
Benzene	ug/L		0.22 J					
Isopropylbenzene (Cumene)	ug/L		1.5			0.75		
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichlorotrifluoroethane	ug/L		0.33 J					
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L		2.2	1.7		1.8		

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-01
	Sample ID	1316369	1316369	1324117	1324117	1104638	1104638	1104638
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	12:10	12:10	14:55	14:55	14:05	14:05	14:05
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-17	220-4404-6	220-5275-11	220-5275-12	220-6459-7	220-6459-8	220-6459-9
Constituent	Units							
Trichloroethylene	ug/L		0.52 J					
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L		0.49 J					
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-02	FB-MW-02	FB-MW-02	FB-MW-02
	Sample ID	1113230	1113230	1113230	1316374	1316374	1324114	1324114
	Sample Date	12/02/2008	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	06/03/2008
	Sample Time	10:10	10:10	10:10	13:55	13:55	15:15	15:15
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-1	220-7366-2	220-7366-3	220-4404-14	220-4404-3	220-5275-5	220-5275-6
Constituent	Units							
Depth of Well	Ft	13.81	13.81	13.81	13.60	13.60	13.51	13.51
Depth to Water	Ft	9.32	9.32	9.32	8.05	8.05	8.81	8.81
Oxygen, Dissolved (field)	mg/L	1.50	1.50	1.50	9.42	9.42	7.33	7.33
Specific Conductivity (field)	uS/cm	445	445	445	112	112	192	192
Temperature	C	16.55	16.55	16.55	8.01	8.01	15.60	15.60
Turbidity (field)	NTU	0.90	0.90	0.90	1.02	1.02	1.44	1.44
pH (field measurement)	SU	6.11	6.11	6.11	6.99	6.99	6.54	6.54
Date Metals Analyzed	-		12/11/2008		03/17/2008			06/12/2008
Date Organics Analyzed	-	12/12/2008				03/21/2008	06/07/2008	
Date Physical Analyzed	-			12/09/2008				
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L		0.047		0.017			0.023
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	164.8	164.8	164.8	101.6	101.6	200.4	200.4
Total Petroleum Hydrocarbons (CT ETPH)	mg/L			0.79				
Acetone	ug/L					0.88 J		
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L	1.9						
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L						1.2	
Tetrachloroethylene	ug/L	2.1				26	54	

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	FB-MW-01	FB-MW-01	FB-MW-01	FB-MW-02	FB-MW-02	FB-MW-02	FB-MW-02
	Sample ID	1113230	1113230	1113230	1316374	1316374	1324114	1324114
	Sample Date	12/02/2008	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	06/03/2008
	Sample Time	10:10	10:10	10:10	13:55	13:55	15:15	15:15
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-1	220-7366-2	220-7366-3	220-4404-14	220-4404-3	220-5275-5	220-5275-6
Constituent	Units							
Trichloroethylene	ug/L	0.91				0.65 J	1.3	
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	FB-MW-02	FB-MW-02	FB-MW-02	FB-MW-02	FB-MW-02	HB-MW-04	HB-MW-04
	Sample ID	1104640	1104640	1104640	1113227	1113227	1316368	1316368
	Sample Date	09/08/2008	09/08/2008	09/08/2008	12/02/2008	12/02/2008	03/11/2008	03/11/2008
	Sample Time	11:35	11:35	11:35	11:40	11:40	10:05	10:05
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-6459-13	220-6459-14	220-6459-15	220-7366-14	220-7366-16	220-4404-15	220-4404-4
Constituent	Units							
Depth of Well	Ft	13.52	13.52	13.52	13.4	13.4	13.26	13.26
Depth to Water	Ft	8.25	8.25	8.25	8.55	8.55	7.53	7.53
Oxygen, Dissolved (field)	mg/L	7.20	7.20	7.20	5.24	5.24	6.34	6.34
Specific Conductivity (field)	uS/cm	289	289	289	124	124	271	271
Temperature	C	21.33	21.33	21.33	16.18	16.18	8.69	8.69
Turbidity (field)	NTU	1.55	1.55	1.55	3.61	3.61	1.11	1.11
pH (field measurement)	SU	6.60	6.60	6.60	6.63	6.63	7.74	7.74
Date Metals Analyzed	-		09/18/2008			12/11/2008	03/17/2008	
Date Organics Analyzed	-	09/15/2008			12/12/2008			03/21/2008
Date Physical Analyzed	-			09/22/2008				
Arsenic (unfiltered)	mg/L						0.0029 J	
Barium (unfiltered)	mg/L		0.035			0.017	0.029	
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L						0.0022 J	
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	234.3	234.3	234.3	204.1	204.1	54.6	54.6
Total Petroleum Hydrocarbons (CT ETPH)	mg/L			0.19				
Acetone	ug/L	3.3						
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L	57			30			

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	FB-MW-02	FB-MW-02	FB-MW-02	FB-MW-02	FB-MW-02	HB-MW-04	HB-MW-04
	Sample ID	1104640	1104640	1104640	1113227	1113227	1316368	1316368
	Sample Date	09/08/2008	09/08/2008	09/08/2008	12/02/2008	12/02/2008	03/11/2008	03/11/2008
	Sample Time	11:35	11:35	11:35	11:40	11:40	10:05	10:05
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-6459-13	220-6459-14	220-6459-15	220-7366-14	220-7366-16	220-4404-15	220-4404-4
Constituent	Units							
Trichloroethylene	ug/L	1.4			0.50			
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							0.28 J
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04
	Sample ID	1316371	1316371	1324112	1324120	1104641	1104641	1104641
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	10:05	10:05	11:00	11:00	13:25	13:25	13:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-16	220-4404-5	220-5275-2	220-5275-14	220-6459-10	220-6459-11	220-6459-12
Constituent	Units							
Depth of Well	Ft	13.26	13.26	13.31	13.31	13.20	13.20	13.20
Depth to Water	Ft	7.53	7.53	8.18	8.18	7.69	7.69	7.69
Oxygen, Dissolved (field)	mg/L	6.34	6.34	0.36	0.36	5.01	5.01	5.01
Specific Conductivity (field)	uS/cm	271	271	544	544	749	749	749
Temperature	C	8.69	8.69	15.73	15.73	21.90	21.90	21.90
Turbidity (field)	NTU	1.11	1.11	4.21	4.21	2.29	2.29	2.29
pH (field measurement)	SU	7.74	7.74	7.03	7.03	7.03	7.03	7.03
Date Metals Analyzed	-	03/17/2008		06/12/2008	06/17/2008		09/18/2008	
Date Organics Analyzed	-		03/21/2008			09/15/2008		
Date Physical Analyzed	-		03/20/2008					09/22/2008
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L	0.029		0.029	0.029		0.046	
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L	0.0021 J					0.01	
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	54.6	54.6	144.5	144.5	433.4	433.4	433.4
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		0.14					0.21
Acetone	ug/L		2.1 J					
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L							

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04	HB-MW-04
	Sample ID	1316371	1316371	1324112	1324120	1104641	1104641	1104641
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	10:05	10:05	11:00	11:00	13:25	13:25	13:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-16	220-4404-5	220-5275-2	220-5275-14	220-6459-10	220-6459-11	220-6459-12
Constituent	Units							
Trichloroethylene	ug/L							
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L		0.25 J			1.4		
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-04	HB-MW-04	HB-MW-05	HB-MW-05	HB-MW-05	HB-MW-05	HB-MW-05
	Sample ID	1113226	1113226	1316373	1316373	1324113	1104632	1104632
	Sample Date	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	09/08/2008	09/08/2008
	Sample Time	09:45	09:45	12:10	12:10	13:25	12:35	12:35
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-11	220-7366-13	220-4404-13	220-4404-2	220-5275-4	220-6459-17	220-6459-18
Constituent	Units							
Depth of Well	Ft	13.12	13.12	14.55	14.55	14.54	14.38	14.38
Depth to Water	Ft	7.93	7.93	9.80	9.80	10.14	9.67	9.67
Oxygen, Dissolved (field)	mg/L	.96	.96	9.84	9.84	7.58	5.34	5.34
Specific Conductivity (field)	uS/cm	473	473	1049	1049	1121	1189	1189
Temperature	C	13.13	13.13	12.38	12.38	19.38	23.93	23.93
Turbidity (field)	NTU	3.21	3.21	1.78	1.78	1.38	0.92	0.92
pH (field measurement)	SU	7.14	7.14	5.91	5.91	5.91	5.35	5.35
Date Metals Analyzed	-		12/11/2008	03/17/2008		06/12/2008	09/18/2008	
Date Organics Analyzed	-	12/08/2008						
Date Physical Analyzed	-				03/20/2008			09/22/2008
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L		0.039	0.29		0.15	0.21	
Chromium, Total (unfiltered)	mg/L			0.041		0.039	0.024	
Copper (unfiltered)	mg/L			0.051		0.037	0.039	
Nickel (unfiltered)	mg/L			0.049		0.039	0.033	
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	88.7	88.7	126.2	126.2	149.5	520.4	520.4
Total Petroleum Hydrocarbons (CT ETPH)	mg/L				0.1 J			0.13
Acetone	ug/L	3.1						
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L							

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-04	HB-MW-04	HB-MW-05	HB-MW-05	HB-MW-05	HB-MW-05	HB-MW-05
	Sample ID	1113226	1113226	1316373	1316373	1324113	1104632	1104632
	Sample Date	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	09/08/2008	09/08/2008
	Sample Time	09:45	09:45	12:10	12:10	13:25	12:35	12:35
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-11	220-7366-13	220-4404-13	220-4404-2	220-5275-4	220-6459-17	220-6459-18
Constituent	Units							
Trichloroethylene	ug/L							
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-05	HB-MW-05	HB-MW-05	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06
	Sample ID	1113231	1113231	1113235	1316372	1316372	1324115	1324115
	Sample Date	12/02/2008	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	06/03/2008
	Sample Time	12:15	12:15	12:15	10:40	10:40	11:00	11:00
	Sample Depth	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-4	220-7366-5	220-7366-8	220-4404-1	220-4404-12	220-5275-7	220-5275-8
Constituent	Units							
Depth of Well	Ft	14.60	14.60	14.60	13.65	13.65	13.5	13.5
Depth to Water	Ft	9.91	9.91	9.91	8.20	8.20	8.85	8.85
Oxygen, Dissolved (field)	mg/L	5.62	5.62	5.62	4.92	4.92	1.39	1.39
Specific Conductivity (field)	uS/cm	1183	1183	1183	881	881	467	467
Temperature	C	17.32	17.32	17.32	9.75	9.75	17.93	17.93
Turbidity (field)	NTU	1.12	1.12	1.12	1.40	1.40	1.21	1.21
pH (field measurement)	SU	6.14	6.14	6.14	5.98	5.98	5.67	5.67
Date Metals Analyzed	-		12/11/2008	12/11/2008		03/17/2008		06/17/2008
Date Organics Analyzed	-	12/12/2008			03/24/2008		06/07/2008	
Date Physical Analyzed	-				03/20/2008		06/10/2008	
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L		0.14	0.14		0.1		0.077
Chromium, Total (unfiltered)	mg/L		0.041	0.039				
Copper (unfiltered)	mg/L		0.03	0.029				
Nickel (unfiltered)	mg/L		0.031	0.03				
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	102.6	102.6	102.6	188.2	188.2	309.1	309.1
Total Petroleum Hydrocarbons (CT ETPH)	mg/L				0.17		0.12	
Acetone	ug/L							
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L				0.42 J			
tert-Butylbenzene	ug/L				0.75 J		1.5	
1,1,1-Trichloroethane	ug/L				3.8			
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L				0.43 J			
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L	0.56			3.7		5.3	

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-05	HB-MW-05	HB-MW-05	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06
	Sample ID	1113231	1113231	1113235	1316372	1316372	1324115	1324115
	Sample Date	12/02/2008	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	06/03/2008
	Sample Time	12:15	12:15	12:15	10:40	10:40	11:00	11:00
	Sample Depth	4.80' - 14.80	4.80' - 14.80	4.80' - 14.80	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-4	220-7366-5	220-7366-8	220-4404-1	220-4404-12	220-5275-7	220-5275-8
Constituent	Units							
Trichloroethylene	ug/L				0.74 J			
Methylene Chloride	ug/L				1.1 J			
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06
	Sample ID	1104636	1104636	1104636	1104637	1104637	1104637	1113228
	Sample Date	09/08/2008	09/08/2008	09/08/2008	09/08/2008	09/08/2008	09/08/2008	12/02/2008
	Sample Time	11:25	11:25	11:25	11:25	11:25	11:25	13:35
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-6459-1	220-6459-2	220-6459-3	220-6459-4	220-6459-5	220-6459-6	220-7366-17
Constituent	Units							
Depth of Well	Ft	13.40	13.40	13.40	13.40	13.40	13.40	13.41
Depth to Water	Ft	8.15	8.15	8.15	8.15	8.15	8.15	8.52
Oxygen, Dissolved (field)	mg/L	6.29	6.29	6.29	6.29	6.29	6.29	0.53
Specific Conductivity (field)	uS/cm	217	217	217	217	217	217	341
Temperature	C	24.27	24.27	24.27	24.27	24.27	24.27	15.85
Turbidity (field)	NTU	2.84	2.84	2.84	2.84	2.84	2.84	1.02
pH (field measurement)	SU	5.67	5.67	5.67	5.67	5.67	5.67	5.78
Date Metals Analyzed	-			09/18/2008			09/18/2008	
Date Organics Analyzed	-	09/15/2008			09/15/2008			12/12/2008
Date Physical Analyzed	-		09/22/2008			09/22/2008		
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L			0.061			0.059	
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L			0.05				
Oxidation-Reduction Potential	mV	403.0	403.0	403.0	403.0	403.0	403.0	235.7
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		0.28			0.23		
Acetone	ug/L				2.4			
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							1.1
1,1,1-Trichloroethane	ug/L	2.9			2.9			6.1
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L	4			4			10

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06	HB-MW-06
	Sample ID	1104636	1104636	1104636	1104637	1104637	1104637	1113228
	Sample Date	09/08/2008	09/08/2008	09/08/2008	09/08/2008	09/08/2008	09/08/2008	12/02/2008
	Sample Time	11:25	11:25	11:25	11:25	11:25	11:25	13:35
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-6459-1	220-6459-2	220-6459-3	220-6459-4	220-6459-5	220-6459-6	220-7366-17
Constituent	Units							
Trichloroethylene	ug/L	0.76			0.74			1.7
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-06	HB-MW-06	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07
	Sample ID	1113228	1113228	1316370	1316370	1324116	1324116	1104633
	Sample Date	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008
	Sample Time	13:35	13:35	13:55	13:55	12:40	12:40	14:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-18	220-7366-19	220-4404-18	220-4404-7	220-5275-10	220-5275-9	220-6459-19
Constituent	Units							
Depth of Well	Ft	13.41	13.41	14.59`	14.59`	14.60	14.60	14.32
Depth to Water	Ft	8.52	8.52	9.68	9.68	10.10	10.10	9.57
Oxygen, Dissolved (field)	mg/L	0.53	0.53	.71	.71	1.01	1.01	3.17
Specific Conductivity (field)	uS/cm	341	341	590	590	518	518	392
Temperature	C	15.85	15.85	13.31	13.31	18.09	18.09	21.33
Turbidity (field)	NTU	1.02	1.02	1.04	1.04	1.09	1.09	1.03
pH (field measurement)	SU	5.78	5.78	6.39	6.39	6.16	6.16	5.10
Date Metals Analyzed	-		12/11/2008	03/17/2008		06/17/2008		
Date Organics Analyzed	-				03/22/2008		06/07/2008	09/15/2008
Date Physical Analyzed	-	12/09/2008			03/20/2008		06/10/2008	
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L		0.11	0.12		0.071		
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L			0.0026 J				
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Oxidation-Reduction Potential	mV	235.7	235.7	193.2	193.2	278.8	278.8	506.8
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.21			0.42 M		0.15	
Acetone	ug/L				1.4 J			
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L							2.7
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L				1.9		2.4	2.8

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-06	HB-MW-06	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07
	Sample ID	1113228	1113228	1316370	1316370	1324116	1324116	1104633
	Sample Date	12/02/2008	12/02/2008	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008
	Sample Time	13:35	13:35	13:55	13:55	12:40	12:40	14:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-7366-18	220-7366-19	220-4404-18	220-4404-7	220-5275-10	220-5275-9	220-6459-19
Constituent	Units							
Trichloroethylene	ug/L				0.75 J			
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07		
	Sample ID	1104633	1104633	1113232	1113232	1113232		
	Sample Date	09/08/2008	09/08/2008	12/02/2008	12/02/2008	12/02/2008		
	Sample Time	14:25	14:25	15:00	15:00	15:00		
	Sample Depth	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00		
	Laboratory	STL-	STL-	STL-	STL-	STL-		
	Lab. Number	220-6459-20	220-6459-21	220-7366-23	220-7366-24	220-7366-25		
Constituent	Units							
Depth of Well	Ft	14.32	14.32	14.52	14.52	14.52		
Depth to Water	Ft	9.57	9.57	9.68	9.68	9.68		
Oxygen, Dissolved (field)	mg/L	3.17	3.17	0.46	0.46	0.46		
Specific Conductivity (field)	uS/cm	392	392	388	388	388		
Temperature	C	21.33	21.33	15.75	15.75	15.75		
Turbidity (field)	NTU	1.03	1.03	1.87	1.87	1.87		
pH (field measurement)	SU	5.10	5.10	6.58	6.58	6.58		
Date Metals Analyzed	-	09/18/2008			12/11/2008			
Date Organics Analyzed	-			12/12/2008				
Date Physical Analyzed	-		09/22/2008			12/09/2008		
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L	0.096			0.069			
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L	0.05						
Oxidation-Reduction Potential	mV	506.8	506.8	122.3	122.3	122.3		
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		0.34			0.47		
Acetone	ug/L							
Benzene	ug/L							
Isopropylbenzene (Cumene)	ug/L							
sec-Butylbenzene	ug/L							
tert-Butylbenzene	ug/L							
1,1,1-Trichloroethane	ug/L			6.7				
1,1,2-Trichlorotrifluoroethane	ug/L							
1,1-Dichloroethane	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Tetrachloroethylene	ug/L			2.8				

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07	HB-MW-07		
	Sample ID	1104633	1104633	1113232	1113232	1113232		
	Sample Date	09/08/2008	09/08/2008	12/02/2008	12/02/2008	12/02/2008		
	Sample Time	14:25	14:25	15:00	15:00	15:00		
	Sample Depth	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00		
	Laboratory	STL-	STL-	STL-	STL-	STL-		
	Lab. Number	220-6459-20	220-6459-21	220-7366-23	220-7366-24	220-7366-25		
Constituent	Units							
Trichloroethylene	ug/L			0.73				
Methylene Chloride	ug/L							
Trichlorofluoromethane	ug/L							
Xylenes, Total	ug/L							
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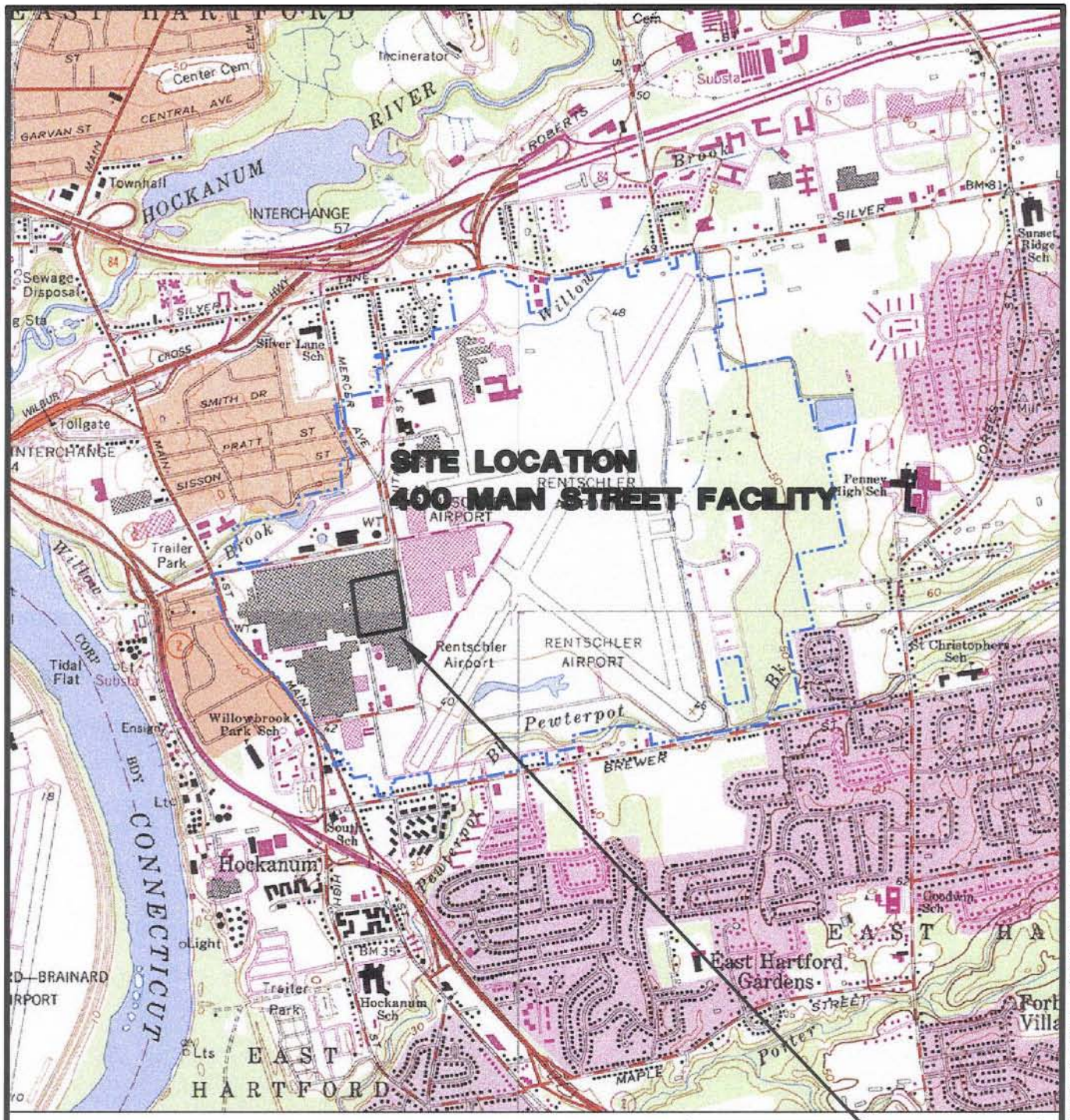
FIGURES



MAP REFERENCE:
USGS 7.5 MINUTE SERIES QUADRANGLES FOR HARTFORD NORTH, HARTFORD SOUTH, GLASTONBURY, AND MANCHESTER CONN., DATED 1964 & 1963 AND REVISED 1992.

1000 0 1000 2000 3000

SCALE IN FEET

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2008 ANNUAL POST REMEDIATION GROUNDWATER MONITORING REPORT
F & H BUILDING, PRATT & WHITNEY, EAST HARTFORD, CT

SITE LOCATION MAP

Comm.No.	FIGURE 2-1	LEA
88UT709		

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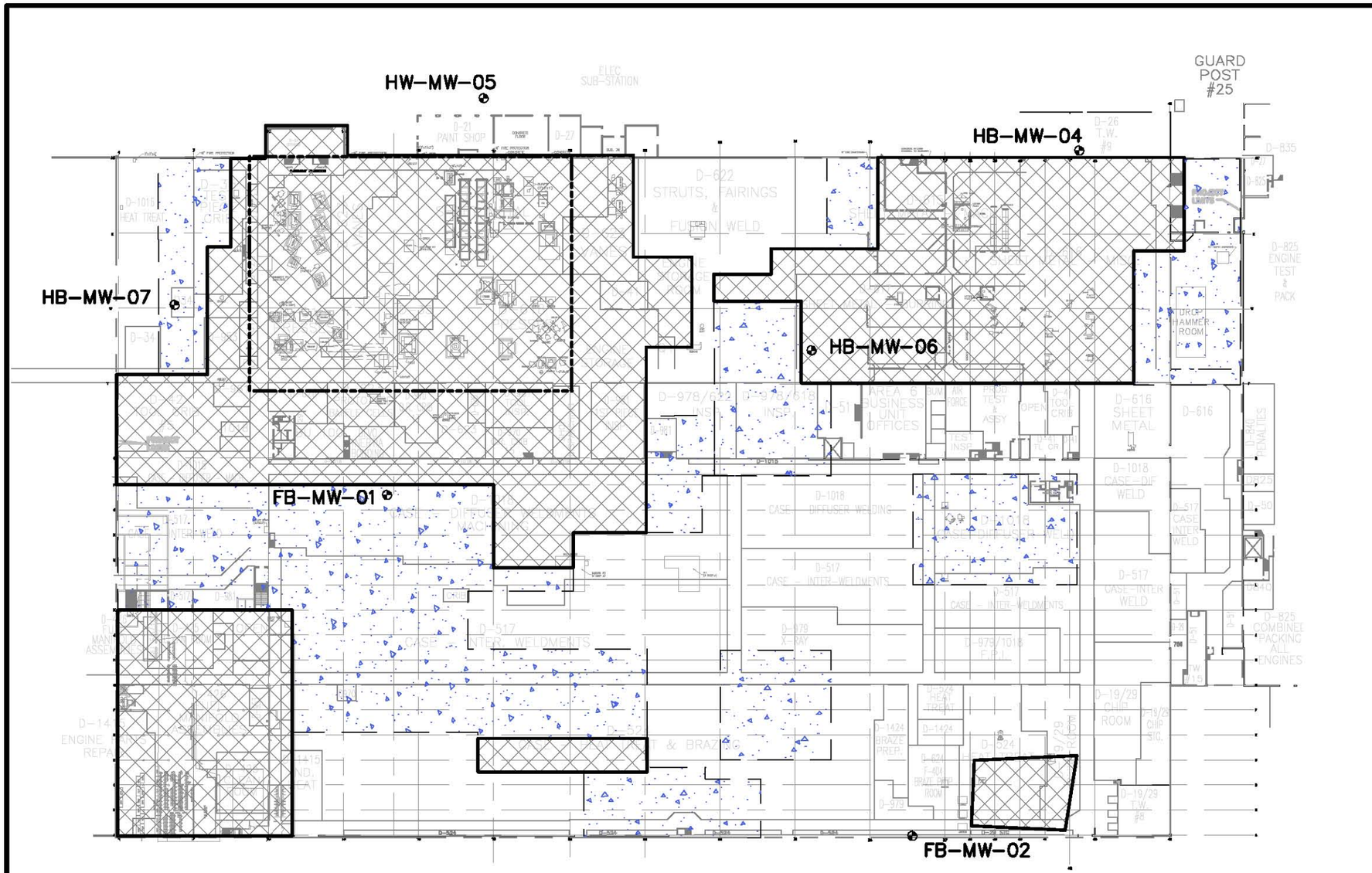

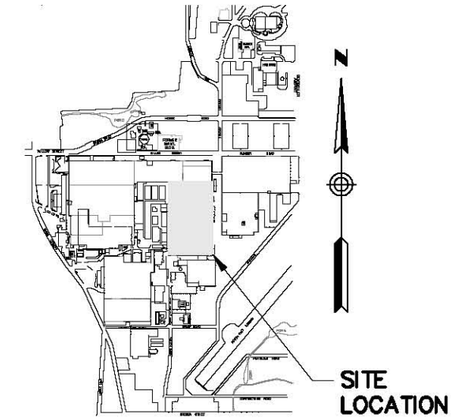

KEY MAP
NOT TO SCALE

LEGEND

- APPROXIMATE LIMITS OF BITUMINOUS ASPHALT
- APPROXIMATE LIMITS OF PREVIOUS CONCRETE REMOVAL & REPLACED WITH PROCESSED AGGREGATE BASE
- APPROXIMATE LIMITS OF ENGINEERED CONTROL
- MONITORING WELL LOCATION

N

50 0 50 100 150

SCALE IN FEET

2008 ANNUAL POST REMEDIATION GROUNDWATER MONITORING REPORT
PRATT & WHITNEY, EAST HARTFORD, CT

SITE PLAN

Comm.No.		
88UT709	FIGURE 4-1	LFA

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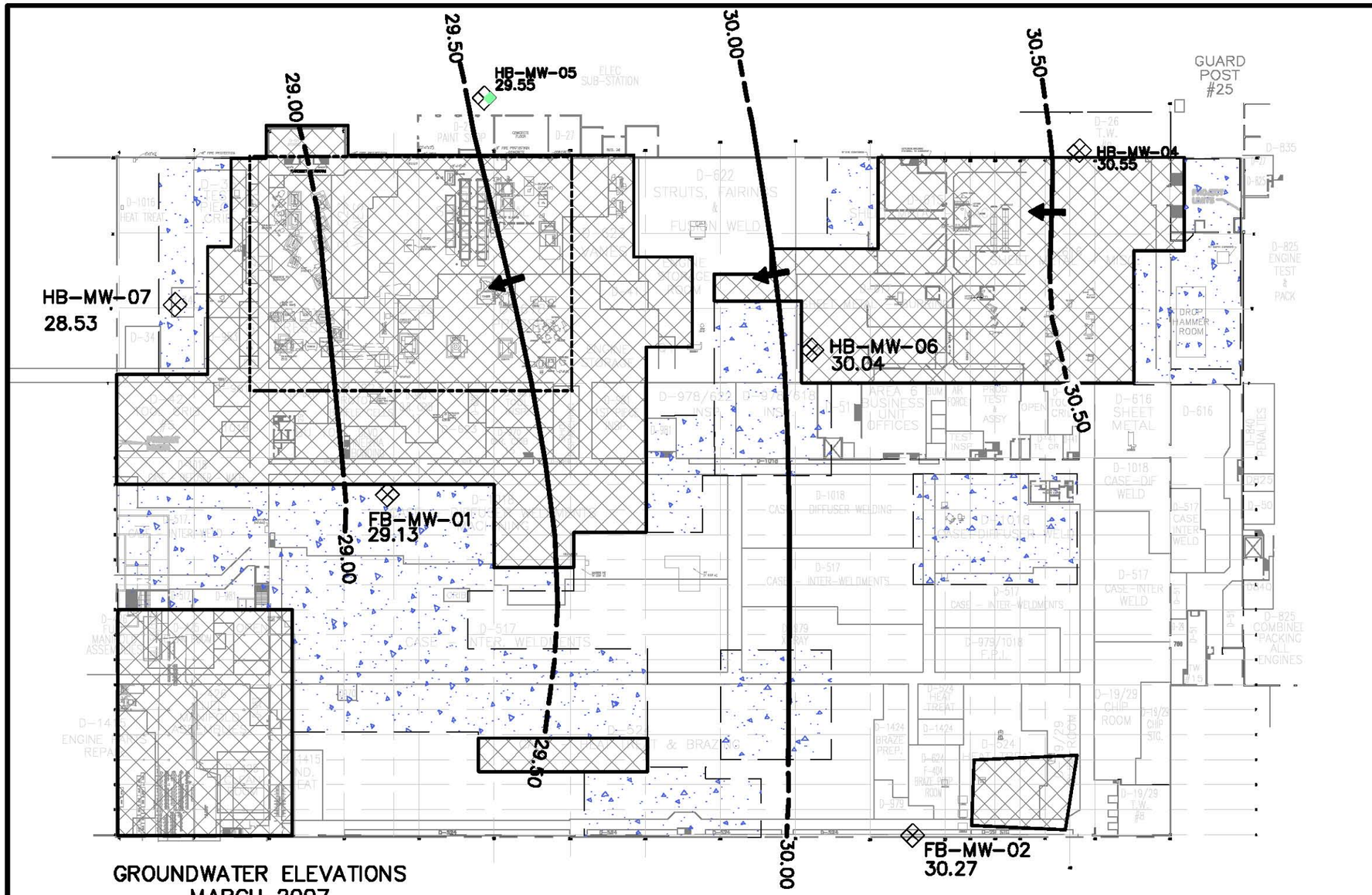


GROUNDWATER ELEVATIONS MARCH 2007

Monitoring Well Identification	Ground Elevation (ft)	Top of Casing Elevation (ft)	Top of Riser Elevation (ft)	Depth to Water[1] (ft)	Groundwater Elevation[2] (ft)
FB-MW-01	38.41	38.39	38.21	9.08	29.13
FB-MW-02	38.47	38.48	38.32	8.05	30.27
HB-MW-04	38.35	38.45	38.08	7.53	30.55
HB-MW-05	39.64	39.67	39.35	9.80	29.55
HB-MW-06	38.48	38.58	38.24	8.20	30.04
HB-MW-07	38.15	38.31	38.16	9.63	28.53

NOTES:

(1) DEPTH TO WATER WAS MEASURED FROM TOP OF RISER.

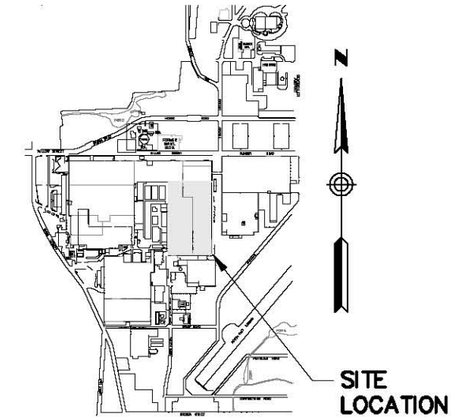
(2) GROUNDWATER ELEVATION FROM TOP OF RISER.

ft INDICATES FEET.

N

50 0 50 100 150

SCALE IN FEET



KEY MAP

NOT TO SCALE

LEGEND

APPROXIMATE LIMITS OF BITUMINOUS ASPHALT

APPROXIMATE LIMITS OF PREVIOUS CONCRETE REMOVAL & REPLACED WITH PROCESSED AGGREGATE BASE

APPROXIMATE LIMITS OF ENGINEERED CONTROL

GROUNDWATER CONTOUR DASHED WHERE INFERRED

GROUNDWATER FLOW DIRECTION

GROUNDWATER EXCEEDANCES

SAMPLE WITH DETECT BUT NO EXCEEDANCES

SURFACE WATER (SWPC) PROTECTION CRITERIA

2008 ANNUAL POST REMEDIATION GROUNDWATER MONITORING REPORT
PRATT & WHITNEY, EAST HARTFORD, CT

MARCH 2008 GROUNDWATER SAMPLING RESULTS AND GROUNDWATER CONTOUR MAP

Comm.No. 88UT709

FIGURE 4-2

LEA

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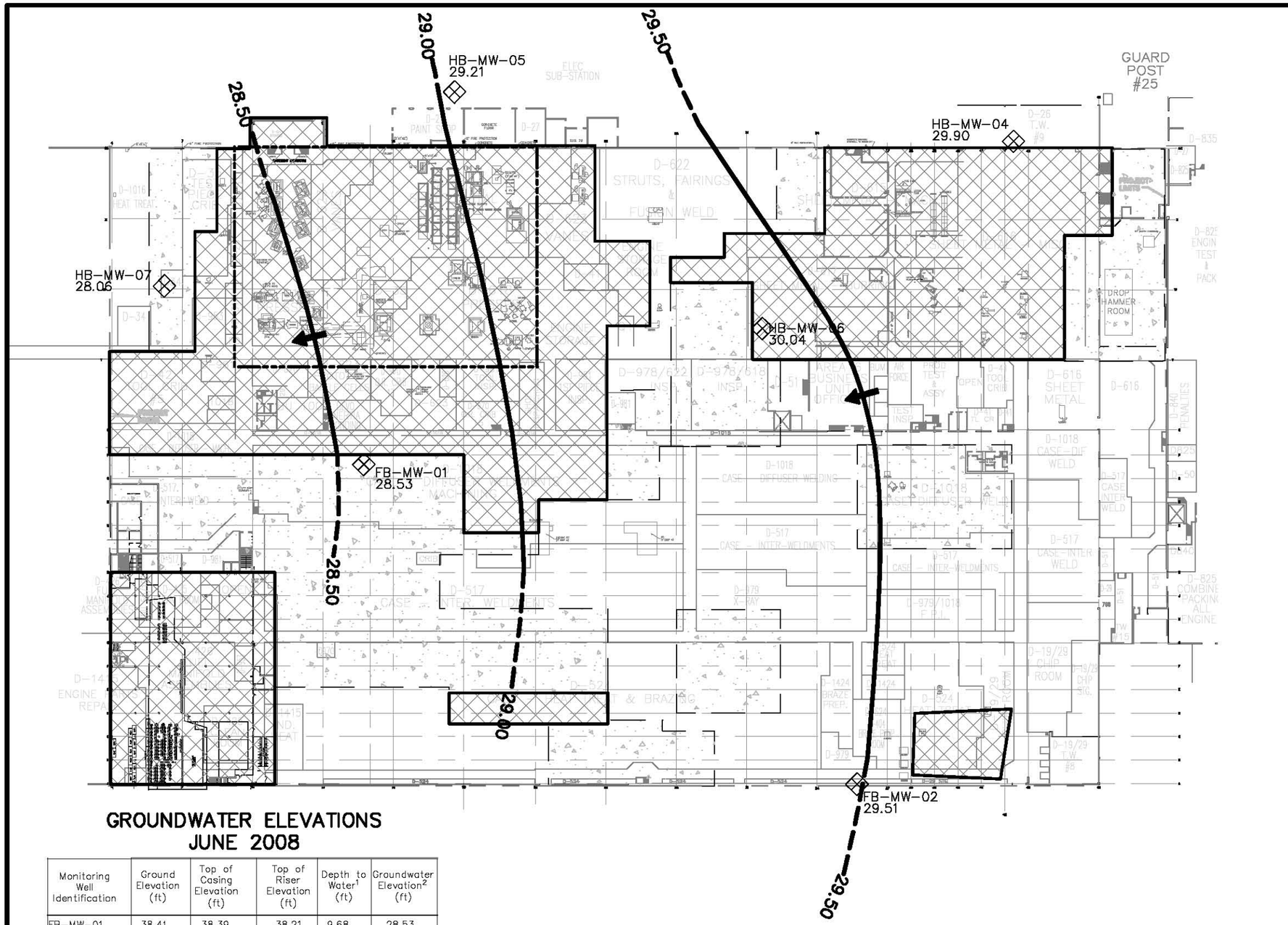


GROUNDWATER ELEVATIONS
JUNE 2008

Monitoring Well Identification	Ground Elevation (ft)	Top of Casing Elevation (ft)	Top of Riser Elevation (ft)	Depth to Water[1] (ft)	Groundwater Elevation[2] (ft)
FB-MW-01	38.41	38.39	38.21	9.68	28.53
FB-MW-02	38.47	38.48	38.32	8.81	29.51
HB-MW-04	38.35	38.45	38.08	8.18	29.90
HB-MW-05	39.64	39.67	39.35	10.14	29.21
HB-MW-06	38.48	38.58	38.24	8.85	29.39
HB-MW-07	38.15	38.31	38.16	10.10	28.06

NOTES:

(1) DEPTH TO WATER WAS MEASURED FROM TOP OF RISER.

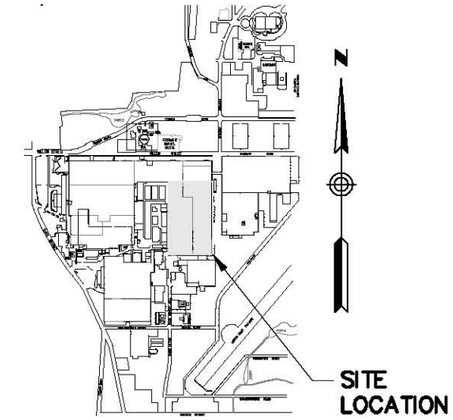
(2) GROUNDWATER ELEVATION FROM TOP OF RISER.

ft INDICATES FEET.

N

50 0 50 100 150

SCALE IN FEET



KEY MAP
NOT TO SCALE

LEGEND

APPROXIMATE LIMITS OF BITUMINOUS ASPHALT

APPROXIMATE LIMITS OF PREVIOUS CONCRETE REMOVAL & REPLACED WITH PROCESSED AGGREGATE BASE

APPROXIMATE LIMITS OF ENGINEERED CONTROL

GROUNDWATER CONTOUR DASHED WHERE INFERRED

GROUNDWATER FLOW DIRECTION

GROUNDWATER EXCEEDANCES

SAMPLE WITH DETECT BUT NO EXCEEDANCES

2008 ANNUAL POST REMEDIATION GROUNDWATER MONITORING REPORT
PRATT & WHITNEY, EAST HARTFORD, CT

JUNE 2008 GROUNDWATER SAMPLING RESULTS AND GROUNDWATER CONTOUR MAP

Comm.No. 88UT709

FIGURE 4-3

LEA

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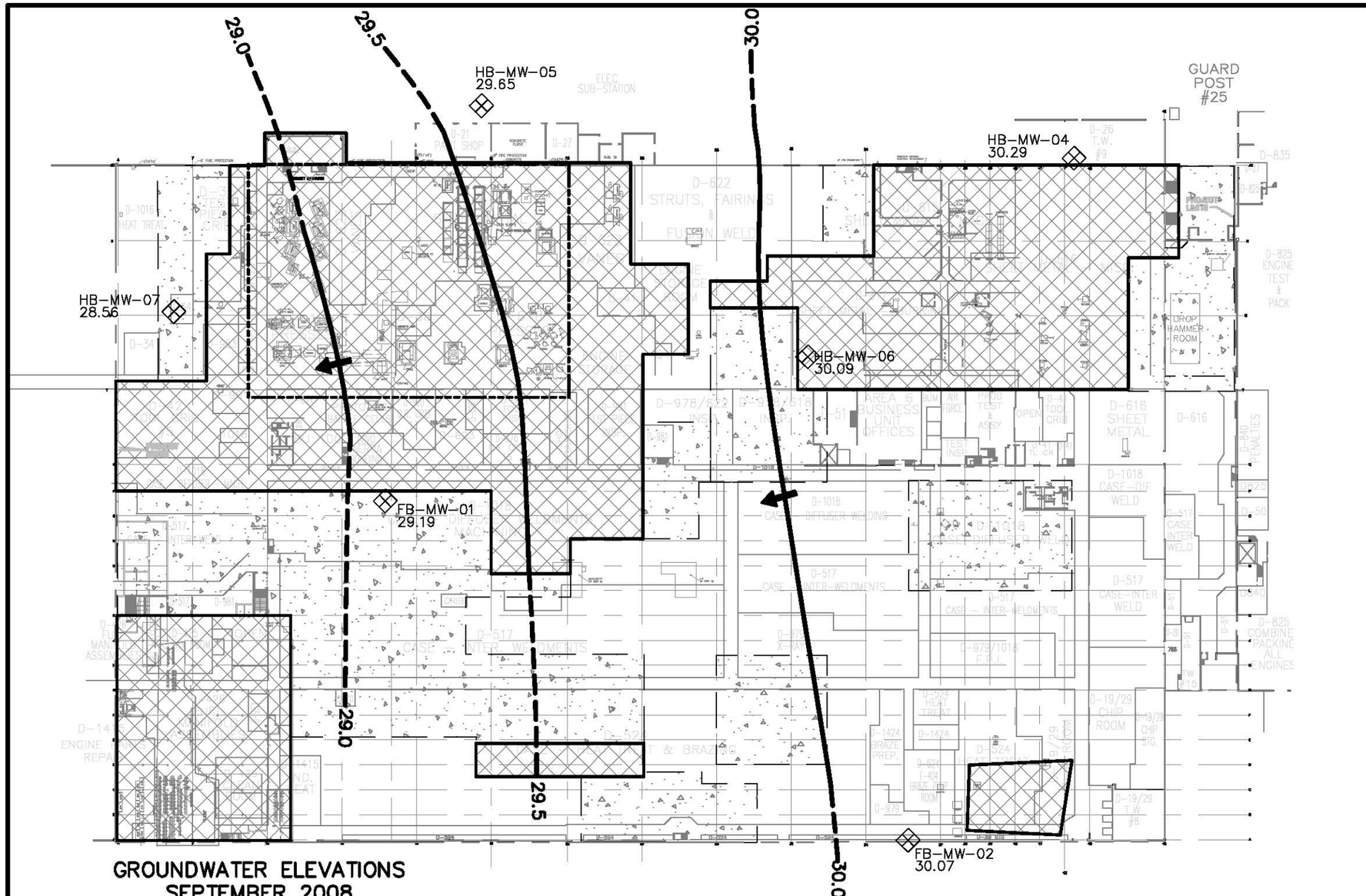


GROUNDWATER ELEVATIONS SEPTEMBER 2008

Monitoring Well Identification	Ground Elevation (ft)	Top of Casing Elevation (ft)	Top of Riser Elevation (ft)	Depth to Water[1] (ft)	Groundwater Elevation[2] (ft)
FB-MW-01	38.41	38.39	38.21	9.02	29.19
FB-MW-02	38.47	38.48	38.32	8.25	30.07
HB-MW-04	38.35	38.45	38.08	7.69	30.39
HB-MW-05	39.64	39.67	39.35	9.70	29.65
HB-MW-06	38.48	38.58	38.24	8.15	30.09
HB-MW-07	38.15	38.31	38.16	9.60	28.56

NOTES:

(1) DEPTH TO WATER WAS MEASURED FROM TOP OF RISER.

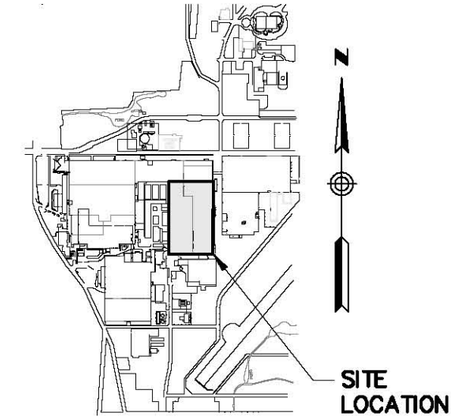
(2) GROUNDWATER ELEVATION FROM TOP OF RISER.

ft INDICATES FEET.

N

50 0 50 100 150

SCALE IN FEET



KEY MAP

NOT TO SCALE

LEGEND

APPROXIMATE LIMITS OF BITUMINOUS ASPHALT

APPROXIMATE LIMITS OF PREVIOUS CONCRETE REMOVAL & REPLACED WITH PROCESSED AGGREGATE BASE

APPROXIMATE LIMITS OF ENGINEERED CONTROL

GROUNDWATER CONTOUR DASHED WHERE INFERRED

GROUNDWATER FLOW DIRECTION

GROUNDWATER EXCEEDANCES

SAMPLE WITH DETECT BUT NO EXCEEDANCES

2008 ANNUAL POST REMEDIATION GROUNDWATER MONITORING REPORT
PRATT & WHITNEY, EAST HARTFORD, CT

SEPTEMBER 2008 GROUNDWATER SAMPLING RESULTS AND GROUNDWATER CONTOUR MAP

Comm.No. 88UT709

FIGURE 4-4

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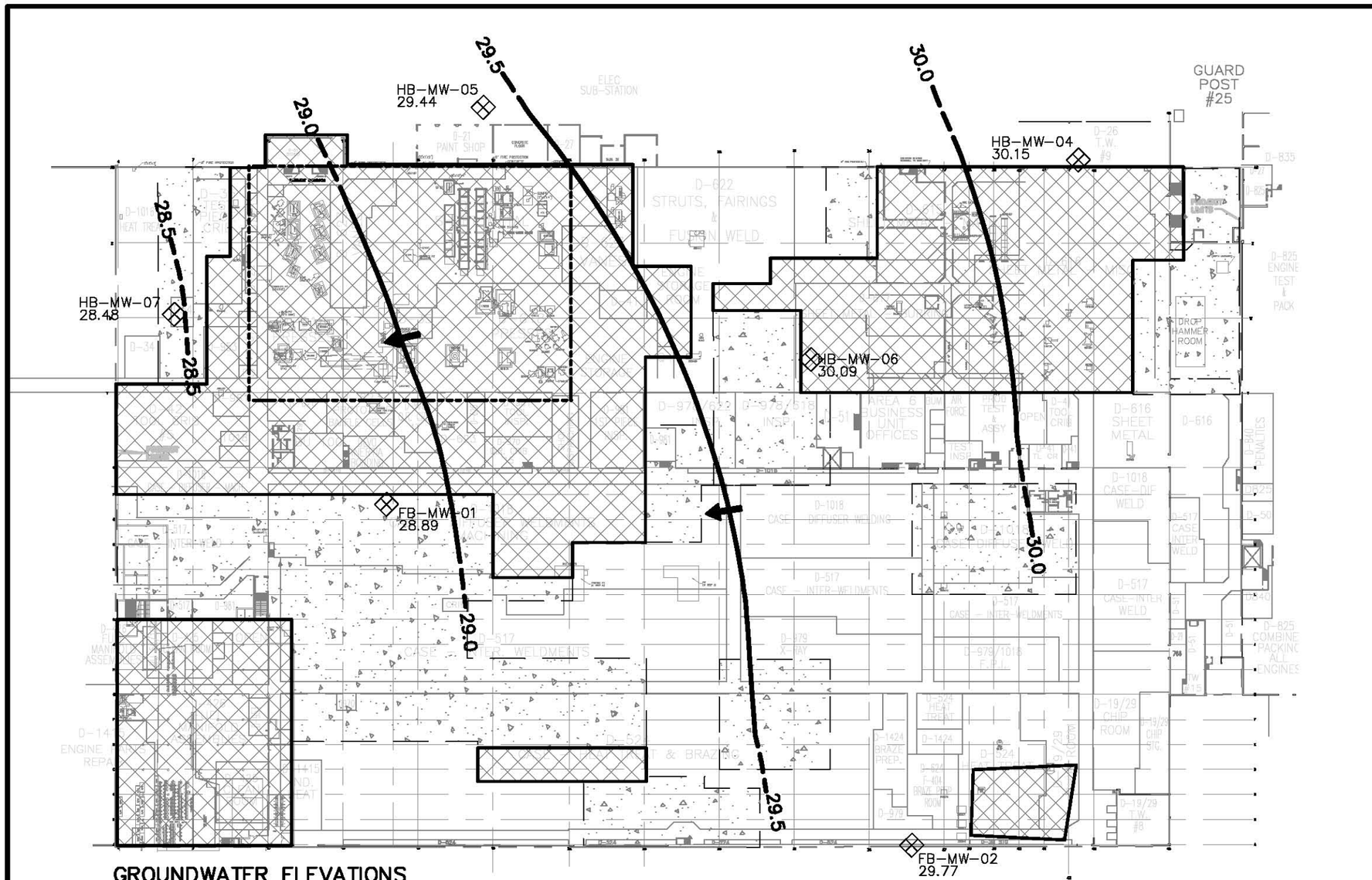

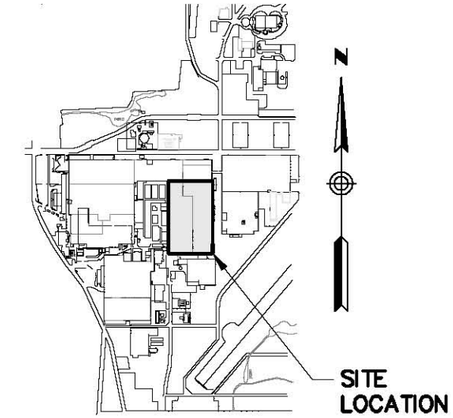

KEY MAP

NOT TO SCALE

LEGEND

- APPROXIMATE LIMITS OF BITUMINOUS ASPHALT
- APPROXIMATE LIMITS OF PREVIOUS CONCRETE REMOVAL & REPLACED WITH PROCESSED AGGREGATE BASE
- APPROXIMATE LIMITS OF ENGINEERED CONTROL
- GROUNDWATER CONTOUR DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

GROUNDWATER EXCEEDANCES

- SAMPLE WITH DETECT BUT NO EXCEEDANCES

GROUNDWATER ELEVATIONS DECEMBER 2008

Monitoring Well Identification	Ground Elevation (ft)	Top of Casing Elevation (ft)	Top of Riser Elevation (ft)	Depth to Water[1] (ft)	Groundwater Elevation[2] (ft)
FB-MW-01	38.41	38.39	38.21	9.32	28.89
FB-MW-02	38.47	38.48	38.32	8.55	29.77
HB-MW-04	38.35	38.45	38.08	7.93	30.15
HB-MW-05	39.64	39.67	39.35	9.91	29.44
HB-MW-06	38.48	38.58	38.24	8.52	29.72
HB-MW-07	38.15	38.31	38.16	9.68	28.48

NOTES:

(1) DEPTH TO WATER WAS MEASURED FROM TOP OF RISER.

(2) GROUNDWATER ELEVATION FROM TOP OF RISER.

ft INDICATES FEET.

N

50 0 50 100 150

SCALE IN FEET

2008 ANNUAL POST REMEDIATION GROUNDWATER MONITORING REPORT
PRATT & WHITNEY, EAST HARTFORD, CT

DECEMBER 2008 GROUNDWATER SAMPLING RESULTS AND GROUNDWATER CONTOUR MAP

Comm.No. 88UT709

FIGURE 4-5

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APPENDIX A

Copies of Field Paperwork

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT709.001**	Page 1 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Arrived at Site 8:45 Departed from Site 4:25 Vehicle F-150

Odometer (Start) Return 64 miles

Site Activities

	Soil Sampling		Geoprobe Work
✓	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	—
Last Location ID Used	—
Current Location (if not complete)	—
Sampling for	See chain
Laboratories used	Test America
Paperwork & Equipment left at/in	Rick Brainerd
Site Contact	—
Contractors on Site	—
Time and place to meet contractors	—

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	18 gal	689533
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature High 70s Precipitation — Wind Light

Comments

Checked By

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (spec. size)	090
	Drum, Closed Top 55 gallon	086
	Filter, In Line	024
X	Miscellaneous Health & Safety Items	060
	Tubing, 1/2", NOS	007
	Tubing, 3/8", NOS	008
	Water, Distilled	025
X	Tubing 1/4" 125 ft	

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
2	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
2	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
2	Water Level Indicator	028

Field Personnel Nate Emmons
Keith Volkert

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No.	**88UT709.001**	Page 2 of 10
Project	F&H Buildings 2008 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Description of Site Activities

On Site 8:45

9:00 Locate all wells

9:15 Start setting up of wells

3:30 Call Rick about drum location. No Drums available at F+H Area. Rick will locate drums + Call Back.

4:00 Rick Calls with drum location

4:10 Head into waste treatment to dispose of waste

4:25 Drop off Badges – Off-Site

Field Personnel Nate Emmons
Keith Volkert

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **88UT709.001**
Project F&H Buildings 2008 Quarterly GW Monitor
Location P&W East Hartford, East Hartford, CT
Client United Technologies Corporation-JTo

Page 3 of 10
Date 6/3/08

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1324118 ~~1324120~~	Trip Blank	1000	Trip Blank	—		Trip Blank	
1324120	HB-MW-04	1100	Dup	—		Duplicate	
1324119	Equipment Blank	1530 ~~1600~~	BKE	—		Equipment Blank	

Field Personnel Nate Emmons
Keith Volkert

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

Job No.	**88UT709.001**	Page 4 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

pH Meter/Serial #

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	8:50	3.96	7.21	9.89	1005	101	98
Calibration Check							
Calibration Check							

Turbidity Meter/Serial #

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	855	—	—	—	—
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Nate Emmons, Keith Volkert

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 5 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 15:15
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-02 Sample Number(s) 1324114 1324114uf

Initial Field Data and Measurements

Depth of Well 13.51 Reference Used Top of Casing
Depth to Water 8.81 PID/FID Reading
Height of Column 4.70 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1½ Material PVC

Protector (Road Box) / Stickup "
Ground to Reference 3
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
14.10	8.81	300	100								Pumping
14.30	8.83			2.0	15.80	179	6.51	153.9	8.31	8.88	
14:40	8.83			3.0	15.85	177	6.48	192.3	7.75	3.98	
14:50	8.83			4.0	16.13	182	6.49	196.6	7.67	3.31	
14:55	8.83			4.5	16.05	183	6.49	204.5	7.46	2.84	
15:00	8.83			5.0	15.75	190	6.50	203.3	7.35	2.09	
15:05	8.83			5.5	15.57	190	6.53	200.2	7.35	1.61	
15:10	8.83			6.0	15.55	192	6.53	200.1	7.30	1.53	
15:15	8.83			6.5	15.60	192	6.54	200.4	7.33	1.44	
Sample											

NC

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Keith Volkert

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 6 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:00
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-mw-04 Sample Number(s) 1324112 DUP1324120 1324120 VF 1324112 VF

Initial Field Data and Measurements

Depth of Well 13.31 Reference Used Top of Casing
Depth to Water 8.18 PID/FID Reading
Height of Column Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1½ Material PVC
Protector Road Box / Stickup
Ground to Reference 6"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	✓	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:50	8.18	300	100								Pumping
10:00	~~8.18~~	300	100	1.0	15.25	550	7.30	-3.9	0.57	20.1	
10:10				2.0	15.26	539	7.16	72.7	0.31	14.2	
10:20				3.0	15.32	542	7.19	78.0	0.31	9.59	
10:30				4.0	15.14	539	7.13	90.4	0.29	8.41	
10:40				5.0	15.60	540	7.06	121.3	0.32	7.7	
10:45				5.5	15.67	544	7.02	140.6	0.35	5.20	
10:50				6.0	15.70	543	7.02	143.9	0.36	4.51	
10:55				6.5	15.68	544	7.03	144.9	0.36	4.43	
11:00				7	15.73	544	7.03	144.5	0.36	4.21	
Sample											

NC

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 689533

Additional Comments Water Level Indicator not working
Can't Continuously check water level.

Field Personnel Nate Emmons
Keith Volkert

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 7 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:25
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-mw-05 Sample Number(s) 1324113 1324113 vf

Initial Field Data and Measurements

Depth of Well 14.54 Reference Used Top of Casing
Depth to Water 10.14 PID/FID Reading
Height of Column 4.40 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1½ Material PVC
Protector (Road Box) / Stickup
Ground to Reference 6"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
12:00	10.14	300	100								Pumping
12:20	10.20			2.0	18.95	1196	6.09	128.7	8.12	19.2	
12:40	10.20			4.0	19.58	1136	5.99	140.8	7.80	10.4	
12:50	10.19			5.0	19.50	1112	5.93	146.7	7.64	1.65	
13:00	10.19			6.0	19.00	1151	5.93	147.3	7.95	1.69	
13:10	10.19			7.0	18.98	1128	5.91	148.5	7.70	2.05	
13:15	10.19			7.5	19.40	1122	5.91	148.8	7.59	1.87	
13:20	10.19			8.0	19.53	1121	5.91	149.6	7.58	1.46	
13:25	10.19			8.5	19.38	1121	5.91	149.5	7.58	1.38	
Sample											

Ne

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 685533

Additional Comments Water turbid when initial pumping started.

Field Personnel Nate Emmons
Keith Volkert

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 8 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:55
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-01 Sample Number(s) 1324117 1324117UF

Initial Field Data and Measurements

Depth of Well 13.80 Reference Used TOR
Depth to Water 9.68 PID/FID Reading 0.0
Height of Column 4.12 Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 1.5 Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	—	
Collar Intact	—	
Cover Locked	/	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1330	9.68	300	110	START PUMPING							
1345	9.70		110	1.65	19.66	535	5.53	252.2	1.36	2.13	
1355	9.70		110	2.75	18.57	540	5.54	264.7	1.00	2.78	
1405	9.70		110	3.85	18.17	552	5.54	267.6	0.90	1.67	
1415	9.70		110	4.95	18.69	555	5.63	263.0	0.86	1.61	
1425	9.70		110	6.05	18.56	560	5.64	251.5	0.84	1.04	
1435	9.70		110	7.15	18.62	565	5.63	257.7	0.82	0.98	
1440	9.70		110	7.60	18.84	564	5.63	259.5	0.81	0.96	
1445	9.70		110	8.15	18.86	564	5.63	259.7	0.81	0.95	
1450	9.70		110	8.60	18.84	564	5.63	258.9	0.80	0.96	
1455	9.70	300	110	9.15	18.85	564	5.63	259.2	0.81	0.95	SAMPLE

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes (No) If Yes, with what?
Waste Container ID 689533

Additional Comments

YSI # 04C2284 AB

Field Personnel Nate Emmons
Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 4 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:00
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-06 Sample Number(s) 1324115 1324115ut

Initial Field Data and Measurements

Depth of Well 13.5 Reference Used TOR
Depth to Water 8.85 PID/FID Reading 0.0
Height of Column 4.65 Interface Yes / No If yes, Depth NA Lighter / Heavier

Well Casing Diameter 1.5 Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:54	8.85	300	150	← START PUMPING →							
1010	8.86	↓	150	2.25	17.89	469	5.76	191.2	1.40	5.17	↓
1020	8.86		150	3.75	17.50	464	5.70	237.4	1.39	2.91	
1030	8.86		150	4.25	17.53	464	5.65	269.5	1.43	2.44	
1040	8.86		150	5.75	17.93	466	5.67	301.4	1.37	1.72	
1045	8.86		150	6.50	17.93	467	5.67	308.1	1.39	1.55	
1050	8.86		150	7.25	17.94	466	5.67	309.2	1.39	1.23	
1055	8.86	✓	150	8.00	17.92	467	5.67	308.7	1.38	1.20	✓
1100	8.86	300	150	8.75	17.93	467	5.67	309.1	1.39	1.21	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 10 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 6/3/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:40
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-07 Sample Number(s) 1324116 1324116UF

Initial Field Data and Measurements

Depth of Well 14.60 Reference Used TOR
Depth to Water 10.00 PID/FID Reading 0.0
Height of Column 4.60 Interface Yes / No If yes, Depth NA Lighter / Heavier

Well Casing Diameter 1.5 Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1145	10.10	300	150	← START	PUMPING						→
1155	10.13		150	1.50	18.55	513	6.12	250.6	0.83	3.81	
1205	10.13		150	3	18.18	517	6.14	277.8	0.89	3.21	
1215	10.13		150	4.50	17.86	517	6.17	277.2	0.97	1.73	
1225	10.13		150	5	18.06	518	6.16	278.8	0.99	1.24	
1230	10.13		150	5.75	18.10	518	6.16	278.9	1.00	1.13	
1235	10.13		150	6.25	18.08	518	6.15	278.4	0.99	1.08	
1240	10.13	300	150	7.00	18.09	518	6.16	278.8	1.01	1.09	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Keith Volkert

Signature

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Rick Breinerd	6/3/08	012548
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page ____ of ____**
100 Northwest Dr	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F+H Bldg GW Monitor

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 88UT709.001

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC 8260	RCRA 8 Metals	PCB	CT ETPH						Comments
1324112	6/3/08	1100	X						X				X									
1324112uf		1100						X						X								
1324112		1100				X									X	X						
1324113		1325							X				X									
1324113uf		1325						X						X								
1324113		1325				X									X	X						
1324114		1515							X				X									
1324114uf		1515						X						X								
1324114		1515				X									X	X						
1324115		1100							X				X									

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/3/08	1630	1. Received By: LSA fridge	6/3/08	1800
2. Relinquished By: [signature]	6/4/08	16:00	2. Received By: [signature]	6/4/08	16:00
3. Received By			Cooler Temps	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (1007)

Client: Loureiro Engineering Assoc	Project Manager: Rick Brainerd	Date: 6/3/08	Chain of Custody Number: 012549
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number/e-mail address: 860-747-6181	Field Telephone Number:	Page ____ of ____
City: Plainville; State: CT; Zip Code: 06062	Site Contact:	Lab Contact:	
Project Name and Location (State): F.H Bldg GW Monitoring East Hartford	Sample Disposal: ☒ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)		
Contract/Purchase Order/Project No.: 68UT709.001			

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): VOC 8260	RCRA 8 Metals	PCB	CT 8 TPH						Comments
1324115 f	6/3/08	1100	X					X						X								
1324115		1100				X									X	X						
1324116		1240							X				X									
1324116 f		1240						X						X								
1324116		1240				X									X	X						
1324117		1455							X				X									
1324117 f		1455						X						X								
1324117		1455				X									X	X						
1324120		1100							X				X									
1324120 f		1100	V					X						X								

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By: [signature]	Date: 6/3/08	Time: 1630	1. Received By: LSA fridge	Date: 6/3/08	Time: 1800
2. Relinquished By: LSA Fridge	Date: 6/4/08	Time: 1600	2. Received By: [signature]	Date: 6/4/08	Time: 1400
3. Received By:	Date:	Time:	Cooler Temps:	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Rick Brainerd	6/3/08	012550
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page ____ of ____**
100 Northwest Dr	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): Ft H Bldg P+W East Hartford CT

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 8604 709.001

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC 8260	RCRA 8/Metals	PCBs	CT CTPH						Comments
1324120	6/3/08	1100	X			X									X	X						
1324118	↓	1000	X						X				X									
1324119		1530	X						X				X									
1324119uf		1530	X					X						X								
1324119	6/3/08	1530	X			X									X	X						
		1355																				
		1435																				
		1055																				

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	6/3/08	1630	LEA fridge	6/3/08	1800
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
LEA fridge	6/4/08	16:00	[signature]	6/4/08	1400
3. Received By	**Date**	**Time**	**Cooler Temps**	**Passed Rad. Screen (Lab Use Only)**	
				☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT709.001**		Page 1 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor		Date 9/8/08
Location	P&W East Hartford, East Hartford, CT		
Client	United Technologies Corporation-JTo		

Arrived at Site ~~715~~ 730 Departed from Site 1540 Vehicle 5150 / ST-24

Odometer (Start)Return 66 RT

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	11041643
Last Location ID Used	TripBlank
Current Location (if not complete)	field
Sampling for	VOC, RCRA8, PCB, ETPH
Laboratories used	Test America
Paperwork & Equipment left at/in	office
Site Contact	B. Witkewicz
Contractors on Site	LSA
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	15 gal	704027
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 87 Precipitation None Wind Slight

Comments

Checked By RJB

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (spec. size)	090
	Decontamination Supplies	081
	Drum, Closed Top 55 gallon	086
	Filter, In Line	024
3	Miscellaneous Health & Safety Items	060
100	Tubing, ~~1/2~~", NOS 1/4	007
	Tubing, 3/8", NOS	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
3	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
3	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
2	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
3	Water Level Indicator	028

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Date 9/8/08

LEA Comm. No.	**88UT709.001**
Project	F&H Buildings 2007 Quarterly GW Monitor
Location	P&W East Hartford, East Hartford, CT
Client	United Technologies Corporation-JTo

Description of Site Activities

700 - @ Yard to load equipment
800 - @ office to pick up paperwork and bottles
830 ~~800~~ - Bottles arrive at office
930 - on site
1000 - Start GW Sampling
1500 - finish GW Sampling
- Dispose waste water
1540 off site

Field Personnel	Nate Emmons	Luke Chmielecki	***Signature***
	Keith Volkert		

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT709.001**	Page 3 of 4
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

pH Meter/Serial # Time 935

	~~Time #~~	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	02F0628AG	4	7	10	1000	101	100
Calibration Check	~~02F0~~ 02F1227AD	4	7	10	1000	100	98
Calibration Check	01D1391AA	4	7	10	1000	97	100

Turbidity Meter/Serial # Time 945

	~~Time #~~	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	3522	✓	✓	✓	✓
Calibration Check	3521	✓	✓	✓	✓
Calibration Check	3519	✓	✓	✓	✓

PID Meter/Serial # 3816

	Time	Standard	Meter Reading	Zero with
Initial Calibration	930	100	100	Ambient Air
Calibration Check				
Calibration Check				

Balance/Serial # 3

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **88UT709.001**
Project F&H Buildings 2007 Quarterly GW Monitor
Location P&W East Hartford, East Hartford, CT
Client United Technologies Corporation-JTo

Page 4 of 11
Date 9/5/05

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1104643	Trip Blank	1030	BKT	—	—	Trip Blank	
1104642	Equipment Blank	1420	BKE	—	—	Equipment Blank	
1104636	HB-MW-06	1125	Dup	—	—	Duplicate	

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MONITORING WELL INVENTORY

LEA Comm. No. 88UT709.001
Project F&H Buildings 2007 Quarterly GW Monitor
Location P&W East Hartford, East Hartford, CT
Client United Technologies Corporation-JTo

Date 9/5/08

Sample ID	Location ID	Time	Predicted Depth of Well	Predicted Depth to Water	Actual Depth of Well	Actual Depth to Water	PID/FID	Reference Elevation	Comments
2230853	FB-MW-02	932			13.52	8.25	0.0		
2230854	HB-MW-04	936			13.20	7.69	0.0		
2230855	HB-MW-06	940			13.40	8.15	0.0		
2230856	HB-MW-01	943	13.60	9.02	~~14.54~~	~~14.10~~	0.0		
2230857	HB-MW-07	945			14.32	9.6	0.0		
2230858	HB-MW-05	950			14.38	9.7	0.0		
2230859									
2230860									
2230861									
2230862									
2230863									
2230864									
2230865									
2230866									
2230867									
2230868									
2230869									
2230870									
2230871									
2230872									
2230873									
2230874									
2230875									
2230876									
2230877									
2230878									
2230879									
2230880									
2230881									
2230882									
2230883									
2230884									
2230885									
2230886									
2230887									
2230888									
2230889									
2230890									
2230891									
2230892									
2230893									
2230894									
2230895									

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 4 of 4
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:35
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-02 Sample Number(s) ~~1104636~~ 1104640 1104640UF

Initial Field Data and Measurements

Depth of Well 13.52 Reference Used TOR
Depth to Water 8.25 PID/FID Reading 0.0
Height of Column 5.27 Interface Yes / No If yes, Depth NA Lighter / Heavier

Well Casing Diameter 1.5 Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	—	
Collar Intact	—	
Cover Locked	—	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1045	8.25	350	100	START PUMPING							
1055	8.30		100	1.0	21.28	332	6.63	177.6	9.54	15.1	
1105	8.30		100	2.0	21.34	312	6.62	158.7	8.66	4.23	
1115	8.30		100	3.0	21.29	300	6.60	218.9	7.49	3.09	
1120	8.30		100	3.5	21.34	289	6.60	233.3	7.20	2.30	
1125	8.30		100	4.0	21.35	290	6.60	234.0	7.19	1.58	
1130	8.30		100	4.5	21.34	288	6.60	233.8	7.21	1.53	
1135	8.30	350	100	5.0	21.33	289	6.60	234.3	7.20	1.55	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027

Additional Comments

Field Personnel Nate Emmons Luke Chmielecki *Signature*
Keith Volkert

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 7 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:25
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-04 Sample Number(s) ~~1104637~~ 1104641 1104641UF

Initial Field Data and Measurements

Depth of Well 13.20 Reference Used TOR
Depth to Water 7.69 PID/FID Reading 0.0
Height of Column 5.51 Interface Yes / No If yes, Depth NA Lighter / Heavier

Well Casing Diameter 1.5 Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1235	7.70	350	100	← START PUMPING							→
1255	7.70		100	2.0	21.70	772	7.16	315.7	5.97	4.14	
1305	7.70		100	3.0	21.67	753	7.11	376.7	5.41	4.31	
1315	7.70		100	4.0	21.85	748	7.03	433.1	5.03	2.99	
1320	7.70		100	4.5	21.89	748	7.02	433.6	4.97	2.37	
1325	7.70	300	100	5.0	21.90	749	7.03	433.4	5.01	2.29	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027

Additional Comments
YSI # 02F0628 AG

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 8 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/09
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:25
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-07 Sample Number(s) 1104633 1104633-f

Initial Field Data and Measurements

Depth of Well 14.32 Reference Used T of C
Depth to Water 9.57 PID/FID Reading 0.0
Height of Column 4.75 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1½ Material PVC
Protector Road Box / Stickup
Ground to Reference 2"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
13:10	9.57	300	100								Pumping
13:20	9.55			1.0	21.67	360	5.43	420.1	3.51		
13:30	9.56			2.0	21.64	377	5.28	516.7	3.63	3.69	
13.40	9.57			3.0	21.36	380	5.26	518.8	3.24		
13.50	9.57			4.0	21.41	386	5.25	512.0	3.12	1.86	
14.00	9.57			5.0	21.30	390	5.17	509.5	3.21		
14.10	9.57			6.0	21.40	391	5.08	507.8	3.09	1.60	
14.15	9.57			6.5	21.38	392	5.11	506.2	3.16		
14.20	9.57			7.0	21.30	392	5.10	507.4	3.16		
14.25	9.57			7.5	21.33	392	5.10	506.8	3.17	1.03	
Sample											

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027

Additional Comments Turbidity meter doesn't have sample vial, sharing with Luke.

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 9 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:25
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-06 Sample Number(s) ~~1104634~~ 1104636 1104636uf
1104637 1104637uf

Initial Field Data and Measurements

Depth of Well 13.40 Reference Used TOR
Depth to Water 8.15 PID/FID Reading NM
Height of Column 5.25 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference _____
Comments _____

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1025	8.15	300	100	0							Initial
1035				1	24.02	213	5.87	138.5	12.01	4.67	
1045				2	24.12	216	5.73	285.5	7.55	3.67	
1055				3	24.20	216	5.66	355.0	6.83	3.24	
1105				4	24.26	216	5.69	393.5	6.34	3.10	
1115				5	24.29	218	5.66	411.0	6.25	2.92	
1125	8.15	300	100	6	24.27	217	5.67	403.0	6.29	2.84	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other _____

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID 704027

Additional Comments Duplicate sample taken under 1104637 + uf

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 10 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:05
Client	United Technologies Corporation-JTo 1104638	

Monitoring Well Number FB-MW-01 Sample Number(s) ~~1104635~~ 1104638 uf

Initial Field Data and Measurements

Depth of Well 13.60 Reference Used TOR
Depth to Water 9.05 PID/FID Reading NM
Height of Column 4.55 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference _____
Comments _____

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1255	9.05	300	100	0							Initial
1305				1	23.49	350	5.17	436.2	7.61	5.69	
1315				2	23.50	365	5.28	453.8	7.06	3.51	
1325				3	23.46	366	5.36	472.4	6.36	2.44	
1335				4	23.49	369	5.44	482.5	6.14	2.24	
1345				5	23.22	369	5.34	292.4	5.99	2.10	
1355				6	23.30	368	5.36	304.2	5.80	1.84	
1405	9.05	300	100	7	23.28	368	5.36	300.9	5.87	1.72	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other _____

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID 704027

Additional Comments

Field Personnel Nate Emmons, Keith Volkert, Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 11 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 9/8/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:35
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-05 Sample Number(s) 1104632 1104632 uf

Initial Field Data and Measurements

Depth of Well 14.38 Reference Used T of C
Depth to Water 9.67 PID/FID Reading 0.0
Height of Column 4.71 Interface Yes / (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1 ½ Material PVC
Protector (Road Box) / Stickup
Ground to Reference 6
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
10.35	9.67	300	100								Pumping
10.45	9.69			1.0	23.83	1275	5.87	160.9	7.87	—	
10.55	9.70			2.0	23.67	1252	5.77	213.7	6.92	25.0	
11.05	9.70			3.0	23.46	1212	5.67	300.7	6.33	9.25	
11.15	9.70			4.0	23.55	1194	5.52	402.6	5.96	3.66	
11.25	9.70			5.0	23.84	1196	5.51	437.6	5.80	—	
11.35	9.70			6.0	23.96	1193	5.50	463.9	5.63	2.63	
11.45	9.70			7.0	23.80	1197	5.45	489.6	5.52	—	
11.55	9.70			8.0	23.78	1191	5.41	502.3	5.45	1.52	
12.05	9.70			9.0	23.92	1184	5.37	516.4	5.40	1.49	
12.15	9.70			10.0	23.94	1183	5.36	518.6	5.36	1.40	
12.20	9.70			10.5	23.89	1182	5.36	519.3	5.35	1.29	
12.25	9.70			11.0	23.96	1187	5.35	520.6	5.35	1.15	
12.30	9.70			11.5	23.91	1186	5.35	521.1	5.34	1.08	
12.35	9.70			12.0	23.93	1189	5.35	520.4	5.34	0.92	
Sample											
				(LE)							

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027

Additional Comments No Sample Vial for Turbidity Meter.

Field Personnel Nate Emmons Luke Chmielecki ***Signature***
Keith Volkert Nate Emmons

United Technologies/Pratt & Whitney
2008 Post-Remediation Maintenance and Monitoring Program
F&H Buildings

Weather Conditions: Sunny
Inspection Date: 9/8/08
Inspection Time: 1440

Inspector: Keith Volkert
Reviewed By:

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies.	✓		
2) Signs of settling	Look for ponding and for settling of pavement of more than 0.5 inches over a 5 square foot area.	✓		
3) Signs of ponding	Look for areas of more than 5 square feet of standing water.		✓	
4) Signs of pavement damage	Look for areas of spider cracking, spalling and loss of binder.	✓		
5) Permanent Survey Markers	Look for damaged or missing markers.	✓		
6) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	✓		
	1.Condition of lock	✓		
	2.Visible ID of wells	✓		
	3.Ponding or infiltration of surface water	✓		
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	✓		

Report all deficiencies to the designated representative of United Technologies Corporation/Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) Some ponding of Rain water from weekend rain storme

Corrective Action: None taken

2)

Corrective Action:

3)

Corrective Action:

4)

Corrective Action:

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client: LSA	Project Manager: Rick Brainerd	Date: 9/8/08	Chain of Custody Number: 015112
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number/e-mail address: 8607476181	Field Telephone Number:	Page ____ of ____
City: Plainville; State: CT; Zip Code: 06062	Site Contact: B Witkewicz	Lab Contact:	
Project Name and Location (State): FHB/Quarkdy GW P+W East Hartford CT	Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)		
Contract/Purchase Order/Project No.: 22001162			

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC	8260 Ca 4,7,8	PCBs	CT ETPH						Comments
✓ 1104633uf	9/8/08	1425	Y					X						X								
✓ 1104633		1425	X			X									X	X						
✓ 1104643		1030	X						X				X									
✓ 1104642		1420	Y						X				X									
1104642uf		1420	Y					X						X								
✓ 1104642		1420	Y			X									X	X						

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By: [signature]	Date: 9/8/08	Time: 1600	1. Received By: LSA fridge	Date: 9/8/08	Time: 1600
2. Relinquished By: [signature]	Date: 9/9/08	Time: 1600	2. Received By: [signature]	Date: 9/9/08	Time: 1600
3. Received By:	Date:	Time:	Cooler Temps:	Passed Rad. Screen (Lab Use Only): ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Test America
THE LEADER IN ENVIRONMENTAL TESTING

Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403 Tel: 802 660 1990

CHAIN OF CUSTODY RECORD

Report to:
Company: LEA
Address: 100 Northwest Drive
Plainville, CT
Contact: Rick Brainerd
Phone: 860-747-6181
Fax: 860-747-8822
Contract/ Quote:

Invoice to:
Company: SAME
Address:
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Luke Chmielecki
Sampler's Signature:

Proj. No.: 88UT709
Project Name: F+H Buildings 2008 Quarterly GW Monitoring

ANALYSIS REQUESTED: VOCs, PCBs, ETPH, RCRA 8 + Cu, Ni, Zn

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	VOCs	PCBs	ETPH	RCRA 8 + Cu, Ni, Zn	Lab/Sample ID (Lab Use Only)
W	9/8	1125	✓	X	✓ 1104636	2				X				
		1125		X	✓ 1104636		4				X	X		
		1125		X	✓ 1104636uf				1				X	
		1125		X	✓ 1104637	2				X				
		1125		X	✓ 1104637		4				X	X		
		1125		X	✓ 1104637				1				X	
		1405		X	✓ 1104638	2				X				
		1405		X	✓ 1104638		4				X	X		
		1405		X	✓ 1104638uf				1				X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/8/08	1600	LEA Fridge	9/8/08	1600
	9/9/08	1600		9/9/08	1600

Remarks
VOAs preserved w/ HCl + ice
P/O preserved w/ HNO_3 + ice

Client's delivery of samples constitutes acceptance of TestAmerica terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other 500 ml clear plastic

TestAmerica Cannot accept verbal changes. Please Fax written changes to (802) 660-1919

TAL-8234(1007)

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3 of 7

TAL-0015 (0508)

Client	Project Manager	Date	Chain of Custody Number
LSA	Rick Brainerd	9/8/08	015113
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page ____ of ____**
100 Northwest Dr	860-7117-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062	B. Witkewitz	

Project Name and Location (State): F-HBB Quarterly GW Sampling P&W East Hartford CT

Sample Disposal: ☒ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 22001162

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC	RCRA Cd, Ni, Zn	PCB	CT ETPH						Comments
1104641	9/8/08	1325	X						X				X									
1104641 vf		1325						X						X								
1104641		1325				X									X	X						
1104640		1135							X				X									
1104640 vf		1135						X						X								
1104640		1135				X									X	X						
1104632		1235							X				X									
1104632 vf		1235						X						X								
1104632		1235				X									X	X						
1104633	9/8/08	1425	X						X				X									

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	9/8/08	1600	LSA fridge	9/8/08	1600
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
[signature]	9/9/08	1600	[signature]	9/10/08	16:00
3. Received By	**Date**	**Time**	**Cooler Temps**	**Passed Rad. Screen (Lab Use Only)**	
				☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT709.001**		Page 1 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor		Date 12/2/08
Location	P&W East Hartford, East Hartford, CT		
Client	United Technologies Corporation-JTo		

Arrived at Site 8:00 Departed from Site 16:00 Vehicle ST

Odometer (Start)Return 65 miles Round T

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	1113235
Last Location ID Used	
Current Location (if not complete)	
Sampling for	See chain
Laboratories used	Accutest
Paperwork & Equipment left at/in	office
Site Contact	Wickewicz
Contractors on Site	
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	17gal	704027
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 40's Precipitation — Wind light

Comments

Checked By RJB

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (spec. size)	090
	Drum, Closed Top 55 gallon	086
	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
	Tubing, 1/2", NOS	007
125	Tubing, ~~3/8"~~, NOS 1/4"	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
2	Meter, pH/Temp YSI Rental	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
2	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
2	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
2	Water Level Indicator	028

Field Personnel Alex Clarke, Nate Emmons

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT709.001**	Page 2 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Description of Site Activities

8:00 On Site
Divide equipment, work Plan, Calibrate ect..
8:45 Start Setting up on wells.
9:30 Called Rick Brainerd for Lab Quote and other ?'s
13:30 Dave Brisson onsite to drop off Auger to take Back to Yard
15:30 finished Sampling
16:00 Off Site

Field Personnel Alex Clarke
Nate Emmons

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **88UT709.001**
Project F&H Buildings 2007 Quarterly GW Monitor
Location P&W East Hartford, East Hartford, CT
Client United Technologies Corporation-JTo

Date 12/2/08

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1113234	BKT	9:00	Aq	—	—	Trip Blank	704027
1113229	BKE	14:30	Aq	—	—	Equipment Blank	704027

NG

Field Personnel Alex Clarke
Nate Emmons

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT709.001**	Page 4 of 11
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

pH Meter/Serial # 98H1228 AB

		Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration		8:15	4.00	7.00	10.00	1000	109	
Calibration Check	01C0844AL	8:15	4.00	7.00	10.00	1000	109	
Calibration Check								

Turbidity Meter/Serial # 2017

		Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration			✓	✓	✓	✓
Calibration Check	3522		✓	✓	✓	✓
Calibration Check						

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Alex Clarke		***Signature***
	Nate Emmons		Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 5 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 15:00
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-07 Sample Number(s) 1113232 1113232 uf

Initial Field Data and Measurements

Depth of Well 14.52 Reference Used T of C
Depth to Water 9.68 PID/FID Reading —
Height of Column Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1½" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
13:50	9.68	300	100								Purging
14:10	9.73			2.0	16.26	375	6.60	123.3	0.78	3.11	
14:20	9.70			3.0	15.55	387	6.59	121.6	0.46	2.76	
14:30	9.70			4.0	15.58	387	6.59	121.6	0.46	2.11	
14:40	9.70			5.0	15.75	386	6.59	121.2	0.45	2.08	
14:45	9.70			5.5	15.73	388	6.58	121.9	0.46	2.10	
14:50	9.70			6.0	15.74	388	6.58	122.3	0.47	2.01	
14:55	9.70			6.5	15.72	388	6.58	122.4	0.46	1.95	
15:00	9.70			7.0	15.75	388	6.58	122.3	0.46	1.87	
Sample											

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027

Additional Comments

Field Personnel Alex Clarke
Nate Emmons

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 6 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:15
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-05 Sample Number(s) 1113231 Dup 1113235 1113325 UP 1113231 UP

Initial Field Data and Measurements

Depth of Well 14.60 Reference Used Top C
Depth to Water 9.91 PID/FID Reading —
Height of Column Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1 1/2 Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
10:50	9.91	300	100								Pumping
11:10	9.95			2.0	17.83	1237	6.25	101.2	4.89	10.3	
11:20	9.95			3.0	17.48	1214	6.21	98.7	5.76	6.27	
11:30	9.95			4.0	17.45	1201	6.20	95.5	5.82	4.49	
11:40	9.95			5.0	17.30	1194	6.18	95.8	5.82	3.45	
11:50	9.95			6.0	17.35	1188	6.16	98.8	5.77	2.03	
12:00	9.95			7.0	17.36	1184	6.15	100.9	5.66	2.05	
12:05	9.95			7.5	17.35	1184	6.15	102.4	5.66	1.86	
12:10	9.95			8.0	17.32	1182	6.14	102.6	5.60	1.41	
12:15	9.95			8.5	17.32	1183	6.14	102.6	5.62	1.12	
Sample											

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027

Additional Comments

Field Personnel Alex Clarke
Nate Emmons

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 7 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:10
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-01 Sample Number(s) ~~1113229~~ 1113230 1113230DF

Initial Field Data and Measurements

Depth of Well 13.81 Reference Used T of C
Depth to Water 9.32 PID/FID Reading —
Height of Column Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1½ Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
8:50	9.32	300	100								Pumping
9:10	9.35	↓	↓	2	16.25	440	6.07	150.4	1.77	2.15	
9:20	9.35			3	16.52	445	6.06	154.4	1.65	1.76	
9:30	9.35			4	16.55	444	6.06	158.4	1.53	1.48	
9:40	9.35			5	16.76	443	6.09	161.0	1.49	1.31	
9:50	9.35			6	16.75	444	6.10	163.0	1.45	1.10	
9:55	9.35			6.5	16.72	445	6.10	163.3	1.36	—	
10:00	9.35			7	16.50	442	6.10	164.5	1.53	—	
10:05	9.35			7.5	16.56	445	6.11	165.1	1.48	0.93	
10:10	9.35			8	16.55	445	6.11	164.8	1.50	0.90	
Sample											

NC

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 704027 / ~~707269~~ RB

Additional Comments

Field Personnel Alex Clarke
Nate Emmons

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 8 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 09:45
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-04 Sample Number(s) 1113226 1113226cf

Initial Field Data and Measurements

Depth of Well 13.12 Reference Used top of pvc riser
Depth to Water 7.93 PID/FID Reading 0.0
Height of Column 5.19 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments replaced expansion plug & lock

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment DO%
0845	7.93	300	120	0	← Start purging →						
0855	7.96				12.71	450	7.19	64.8	1.16	12.21	10.9
0905					12.21	455	7.18	64.5	1.19	8.46	11.2
0915					12.38	465	7.16	68.7	1.06	7.32	9.9
0925					12.92	466	7.16	75.6	1.30	4.84	12.2
0935					13.05	474	7.14	85.4	.97	3.26	9.3
0940					13.09	474	7.14	88.6	.97	3.32	9.2
0945				7.2	13.13	473	7.14	88.7	.96	3.21	8.9

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Disposable tubings
Waste Container ID 704027

Additional Comments

Field Personnel Alex Clarke
Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 4 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:40
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-02 Sample Number(s) 1113227 1113227uf

Initial Field Data and Measurements

Depth of Well 13.4 Reference Used top of pvc riser
Depth to Water 8.55 PID/FID Reading 0.0
Height of Column 4.85 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments retapped bolt holes

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment DO%
1035	8.55	300	120	0	←		start purging				→
1045	8.56				16.03	140	6.68	151.3	5.64	8.05	57.0
1100					16.19	136	6.66	175.5	5.53	4.72	56.3
1110					16.15	135	6.66	179.9	5.51	4.43	56.1
1120					16.23	131	6.65	193.9	5.35	4.37	54.5
1130					16.11	124	6.62	202.2	5.25	4.17	53.3
1135					16.16	124	6.63	203.9	5.23	4.21	53.3
1140				7.8	16.18	124	6.63	204.1	5.24	3.61	53.3

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Disposable tubing
Waste Container ID 704027

Additional Comments

Field Personnel Alex Clarke
Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 10 of 10
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 12/2/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:35
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-06 Sample Number(s) 1113228 1113228uf

Initial Field Data and Measurements

Depth of Well 13.41 Reference Used top of pvc riser
Depth to Water 8.52 PID/FID Reading 0.0
Height of Column 4.89 Interface Yes (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material pvc
Protector (Road Box / Stickup)
Ground to Reference _____
Comments replaced American Lock

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment DO%
1240	8.52	300	120	0	←	Start	purging				→
1250	8.54				15.15	347	5.79	219.3	1.07	6.57	10.5
1300					15.67	348	5.77	230.2	.72	4.97	7.3
1310					15.91	340	5.78	232.1	.54	1.18	5.5
1320					15.82	341	5.77	235.2	.53	1.23	5.3
1325					15.83	340	5.78	235.5	.52	1.08	5.2
1330					15.83	341	5.78	235.6	.53	.98	5.3
1335				6.6	15.85	341	5.78	235.7	.53	1.02	5.4

Developement Method (Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes (No) If Yes, with what? disposable tubing
Waste Container ID 704027

Additional Comments

Field Personnel Alex Clarke
Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MONITORING WELL INVENTORY

LEA Comm. No. **88UT709.001**
Project F&H Buildings 2007 Quarterly GW Monitor
Location P&W East Hartford, East Hartford, CT
Client United Technologies Corporation-JTo

Date 12/2/08

Sample ID	Location ID	Time	Predicted Depth of Well	Predicted Depth to Water	Actual Depth of Well	Actual Depth to Water	PID/FID	Reference Elevation	Comments
2231559	FB-MW-01	8:45			13.81	9.32	0.0		
2231560	HB-MW-07	8:55			14.52	9.68	0.0		
2231561	HB-MW-05	9:00			14.60	9.91			
2231562	HB-MW-06	9:05			13.41	8.52			
2231563	FB-MW-02	9:15		13.4	~~13.4~~	8.55			
2231564	HB-MW-04				13.12	7.93			
2231565									

Field Personnel Alex Clarke
Nate Emmons

Signature

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assc.	Tom Salimeno	12/2/08	015491
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page 3 of 3**
100 Northwest Dr	(860) 747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F+H Building P+W East Hartford

Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 22001162-0

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOCs	PCBs	ETPH	Metals	Comments
✓ 1113229	12/2/08	14:30	X						X			X	X				
✓ 1113229 uf		14:30						X				X				X	
✓ 1113229		14:30				X						X		X	X		
✓ 1113232		15:00							X			X	X				
✓ 1113232 uf		15:00						X				X				X	
✓ 1113232	12/2/08	15:00	X			X						X		X	X		

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

State Regulatory QC Requirements: CT-RCP

1. Relinquished By	Date	Time	1. Received By	Date	Time
Nathan Emmons	12/2/08	4:30	LEA fridge		
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
[illegible]	12/3/08	43:15:30	[illegible]	12/3/08	1530
3. Received By	**Date**	**Time**	**Cooler Temps**	**Passed Rad. Screen (Lab Use Only)**	
				☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Associates	Tom Salimeno	12-2-08	015492
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page** 2 **of** 3
100 Northwest Drive	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F&H Building, D&W East Hartford

Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 22001162-0

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other → ICE	PCBs	CTETPH	Metals	VOCs by 8260						Comments
✓ 1113226	12-2-08	0945	✓						✓			✓				X						
✓ 1113226	↓	0945										✓	X	X								
✓ 1113226uf	↓	0945						✓				✓			X							
✓ 1113227	↓	1140							✓			✓				X						
✓ 1113227	↓	1140										✓	X	X								
✓ 1113227uf	↓	1140						✓				✓			X							
✓ 1113228	↓	1335							✓			✓				X						
✓ 1113228	↓	1335										✓	X	X								
✓ 1113228uf	12-2-08	1335						✓				✓			X							

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

State Regulatory QC Requirements: CT-RCP

	Date	Time		Date	Time
1. Relinquished By: [signature]	12/2/08	4:30	1. Received By: LEA fridge		
2. Relinquished By: [signature]	12/2/08	1530	2. Received By: [signature]	12/2/08	15:30
3. Received By:			Cooler Temps:	Passed Rad. Screen (Lab Use Only): ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client: LEA	Project Manager: Tom Salimeno	Date: 12/2/08	Chain of Custody Number: 015490
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number/e-mail address:	Field Telephone Number:	Page 1 of 3
City: Plainville; State: CT; Zip Code: 06062	Site Contact:	Lab Contact:	
Project Name and Location (State): F+H GW monitoring East Hartford CT	Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)		
Contract/Purchase Order/Project No.: 22001162-0			

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other ICE	VOC's	PCB	ETPH	Metals	Comments
✓ 1113230	12/2/08	10:10	X						X			X	X				
✓ 1113230 vf	↓	10:10	↓					X				X				X	
✓ 1113230	↓	10:10	↓			X						X		X	X		
✓ 1113231	↓	12:15	↓						X			X	X				
✓ 1113231 vf	↓	12:15	↓					X				X				X	
✓ 1113231	↓	12:15	↓			X						X		X	X		
✓ 1113235	↓	12:15	↓						X			X	X				
✓ 1113235 vf	↓	12:15	↓					X				X				X	
✓ 1113235	↓	12:15	↓			X						X		X	X		
✓ 1113234	↓	9:00	↓						X			X	X				Trip Blank

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

State Regulatory QC Requirements: CT - RCP

	Date	Time		Date	Time
1. Relinquished By: Nathan Emmons	12/2/08	4:30	1. Received By: LEA fridge		
2. Relinquished By: [signature]	12/3/08	4:30	2. Received By: [signature]	12/3/08	15:30
3. Received By:			Cooler Temps:	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT709.001**	Page 1 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/04
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Arrived at Site 8:30 Departed from Site 15:15 Vehicle ST-14

Odometer (Start) 87789 Return

Site Activities

	Soil Sampling		Geoprobe Work
✓	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling	✓	Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	1316374
Last Location ID Used	FB-MW-02
Current Location (if not complete)	—
Sampling for	PCB, TPH, VOCs
Laboratories used	Test America
Paperwork & Equipment left at/in	at Office
Site Contact	Joe TOTA
Contractors on Site	LEA
Time and place to meet contractors	8:30 AM onsite

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	20 Gallons	689533
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 40's Precipitation NA Wind —

Comments

Checked By Scott J Brown

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (spec. size)	090
1	Decontamination Supplies	081
	Drum, Closed Top 55 gallon	086
	Filter, In Line	024
2	Miscellaneous Health & Safety Items	060
	Tubing, 1/2", NOS	007
120	Tubing, 3/8", NOS feet	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
2	Meter, pH/Temp/DO/Sp.Cd, rentals	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
2	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
2	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
2	Water Level Indicator	028

Field Personnel Nate Emmons

Dave Brisson Scott Brown

Signature Scott Brown

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT709.001**	Page 2 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Description of Site Activities

8:30- onsite
- open Gate Near Post 25 - Get in sampling F+H Area.
- water level all wells.
9:00- Calibrate Equipment.
- Set up on Monitorig Wells.
14:30 finish Sampling Wells
- Inspect F&H Cap Area.
15:15 leave site

Field Personnel	Nate Emmons	**Signature**
	Dave Brisson	Scott Brown — Scott Brown

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT709.001**	Page 3 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/07
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

pH Meter/Serial # 02F0624AC YSI

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	9:25	4.01	7.00	10.03	1004	100	
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # #6

	Time	0 NTU	~~20~~ 10 NTU	100 NTU	800 NTU
Initial Calibration	9:35	0 NTU	10 NTU		
Calibration Check					
Calibration Check					

PID Meter/Serial # 3048

	Time	Standard	Meter Reading	Zero with
Initial Calibration	9:45	100	106	Back Ground
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Nate Emmons	Scott Brown	***Signature***
	Dave Brisson		Scott Brown

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT709.001**	Page 4 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

pH Meter/Serial # 01B1220AA-YSI

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	9:00	400	7.02	10.05	1013	108	
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # 2017

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	9:05	0 NTU	20 NTU	100 NTU	400 NTU
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Nate Emmons		*Signature*
	Dave Brisson	Scott Brown	S. Brown

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 5 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:40
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB MW-06 Sample Number(s) 1316372 1316372vf

Initial Field Data and Measurements

Depth of Well 13.65 Reference Used TOC
Depth to Water 8.20 PID/FID Reading 0.0
Height of Column 5.45 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference TOC
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:45	8.25	300	1.25		←	start Purging		→			
9:55	8.23	300	1.25	1.25L	9.58	811	6.14	183.0	5.72	12.4	
10:05	8.22	300	1.25	2.50L	10.29	973	5.96	188.4	4.98	9.76	
10:15	8.22	300	1.25	3.75L	9.75	847	5.90	185.4	4.62	4.38	
10:25	8.22	300	1.25	5.00L	9.81	863	5.93	184.9	4.76	3.42	
10:30	8.21	300	1.25	5.60L	9.75	872	5.97	190.1	5.01	2.78	
10:35	8.21	300	1.25	6.20L	9.77	876	5.97	187.3	4.83	2.15	
10:40	8.22	300	1.25	6.80L	9.75	881	5.98	188.2	4.92	1.40	Sampled

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Dave Brisson Scott Brown

Signature Scott Brown

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 6 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3 / 11 / 08
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:10
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB MW-05 Sample Number(s) 1316373 1316373uf

Initial Field Data and Measurements

Depth of Well 14.55 Reference Used TOC
Depth to Water 9.40 PID/FID Reading 0.0
Height of Column 4.75 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference TOC
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
11:25	9.44	300	100ml	←		Start	Purging	→			
11:35	9.85	300	100ml	1.0L	12.02	954	6.03	114.6	9.74	21.2	
11:45	9.85	300	100ml	2.0L	12.25	1005	6.00	119.1	10.15	3.92	
11:55	9.85	300	100ml	3.0L	12.28	1042	5.94	125.3	9.93	3.78	
12:00	9.85	300	100ml	3.5L	12.34	1045	5.92	125.2	9.87	1.49	
12:05	9.85	300	100ml	4.0L	12.38	1047	5.91	125.9	9.81	1.30	
12:10	9.85	300	100ml	4.5L	12.38	1049	5.91	126.2	9.84	1.78	sampled

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Dave Brisson Scott Brown

Signature Scott Brown

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 7 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:55
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-02 Sample Number(s) 1316374 1316374UF

Initial Field Data and Measurements

Depth of Well 13.60 Reference Used TOC
Depth to Water 8.05 PID/FID Reading 0.0
Height of Column 5.55 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L.)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
13:00	8.11	300	100ml		←	Start Purging			→		
13:10	8.08	300	100ml	1.0L	8.03	161	6.88	81.1	10.52	3.74	
13:20	8.07	300	100ml	2.0L	7.85	122	6.94	87.2	10.17	1.45	
13:30	8.07	300	100ml	3.0L	7.90	115	6.97	93.0	9.93	1.15	
13:40	8.07	300	100ml	4.0L	8.00	112	6.99	98.1	9.58	1.32	
13:45	8.07	300	100ml	4.5L	8.01	111	6.97	100.4	9.48	1.21	
13:50	8.07	300	100ml	5.0L	8.03	114	7.00	101.1	9.45	1.17	
13:55	8.08	300	100ml	5.0L	8.01	112	6.99	101.6	9.42	1.02	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Dave Brisson

Signature Scott Brown

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 8 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:05
Client	United Technologies Corporation-JTo	DUP 1316371 1316371 uf

Monitoring Well Number HB-MW-04 Sample Number(s) 1316368 1316368 uf

Initial Field Data and Measurements

Depth of Well 13.26 Reference Used Top of Casing
Depth to Water 7.53 PID/FID Reading
Height of Column 5.73 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1½ Material PVC
Protector (Road Box) / Stickup
Ground to Reference 4"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact		
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:10	7.53	300	100								Pumping
9:30	7.58			2	8.73	279	8.09	5.4	8.67	16.5	
9:40	7.58			3	8.82	264	7.85	23.2	7.34	7.73	
9:50	7.58			4	8.90	272	7.75	36.6	6.63	3.72	
9:55	7.58			4.5	8.70	281	7.69	52.9	6.29	1.95	
10:00	7.58			5	8.65	268	7.77	51.7	6.41	1.45	
10:05	7.58			5.5	8.69	271	7.74	54.6	6.34	1.11	Sample

N/F

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 689533

Additional Comments 692856, 689533 waste drums.

Field Personnel Nate Emmons
Dave Brisson

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 9 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:10
Client	United Technologies Corporation-JTo	

Monitoring Well Number FB-MW-01 Sample Number(s) 1316369 1316369 UF

Initial Field Data and Measurements

Depth of Well 13.79 Reference Used Top of Casing
Depth to Water 9.08 PID/FID Reading
Height of Column 4.71 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1 1/2 Material PVC
Protector (Road Box) / Stickup
Ground to Reference 3"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
11:25	9.08	300	100								Pumping
11:35	9.05	↓	↓	1	11.04	311	6.23	88.8	1.58	4.19	
11:45	9.05			2	11.18	328	6.13	95.1	1.63	1.68	
11:50	9.05			2.5	11.22	339	6.10	99.5	1.27	1.56	
11:55	9.05			3	11.17	343	6.07	103.1	1.26	1.32	
12:00	9.05			3.5	11.21	348	6.04	109.5	1.18	1.08	
12:05	9.05			4	11.15	348	6.02	116.2	1.05	1.12	
12:10	9.05	300	100	4.5	11.15	350	6.02	112.7	1.19	1.05	Sample

N/C

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Dave Brisson

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT709.001**	Page 10 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:55
Client	United Technologies Corporation-JTo	

Monitoring Well Number HB-MW-07 Sample Number(s) 1316370 1316370 UF

Initial Field Data and Measurements

Depth of Well 14.59 Reference Used Top of Casing
Depth to Water 9.68 PID/FID Reading
Height of Column 4.91 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1 1/2 Material PVC
Protector (Road Box) / Stickup
Ground to Reference 3"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
12:55	9.68	300	100								Pumping
13:15	9.70	↓	↓	2	13.17	588	6.55	87.5	0.87	2.81	
13:30	9.70			3.5	13.26	5.90	6.40	156.7	.77	2.08	
13:35	9.70			4	13.36	590	6.37	182.7	.79	1.65	
13:45	9.70			5	13.35	591	6.36	192.4	.68	1.46	
13:50	9.70			5.5	13.30	590	6.39	193.8	.73	1.19	
13:55	9.70			6	13.31	590	6.39	193.2	.71	1.04	sample

N/C

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 689533

Additional Comments

Field Personnel Nate Emmons
Dave Brisson

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**88UT709.001**	Page 11 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1316375	Equip Blank	14:25	BKE	–	–	Equip Blank	
1316375ul	Equip Blank	14:25	BKE	–	–	Equip Blank	
1316376	Trip Blank	14:35	BKT	–	–	Trip Blank	
1316377	Performance (18)	12:00	PEW	–	–	TPH	
1316378	Performance (19)	12:00	PEW	–	–	PCB, VOC, metals	

Field Personnel: Nate Emmons, Dave Brisson

Scott Brown

Signature Scott Brown

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MONITORING WELL INVENTORY

LEA Comm. No.	**88UT709.001**	Page 12 of 12
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/08
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

Sample ID	Location ID	Time	Predicted Depth of Well	Predicted Depth to Water	Actual Depth of Well	Actual Depth to Water	PID/FID	Reference Elevation	Comments
2229348	HB-MW-04	9:05			13.26	7.53	0.0		
2229349	HB-MW-05	9:10			14.55	9.80	0.0		
2229350	HB-MW-06	9:05			13.65	8.20	0.0		
2229351	HB-MW-07	9:12			14.60	9.63	0.0		
2229352	FB-MW-01	9:14			13.80	9.08	0.0		
2229353	FB-MW-02	9:20			13.60	8.05	0.0		
2229354									
2229355									

Field Personnel: Nate Emmons, Dave Brisson

Scott Brown

Scott Brown

Loureiro Engineering Associates, Inc.

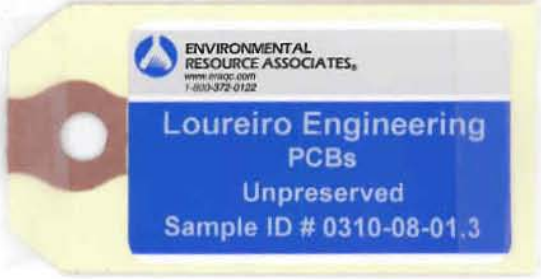
FIELD SAMPLING RECORD

PERFORMANCE SAMPLE

LEA Comm. No.	**88UT709.001**	Page 13 of 13
Project	F&H Buildings 2007 Quarterly GW Monitor	Date 3/11/07
Location	P&W East Hartford, East Hartford, CT	
Client	United Technologies Corporation-JTo	

LEA Sample ID 1316378

LEA Sample ID



LEA Sample ID

LEA Sample ID

LEA Sample ID 1316377

LEA Sample ID 1316378 uf

Field Personnel	Nate Emmons Dave Brisson	*Signature*

United Technologies/Pratt & Whitney
2008 Post-Remediation Maintenance and Monitoring Program
F&H Buildings

Weather Conditions: Clear
Inspection Date: 3/11/08
Inspection Time: 14:50

Inspector: Scott Brown
Reviewed By:

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies.			
2) Signs of settling	Look for ponding and for settling of pavement of more than 0.5 inches over a 5 square foot area.	✓		
3) Signs of ponding	Look for areas of more than 5 square feet of standing water.	✓		
4) Signs of pavement damage	Look for areas of spider cracking, spalling and loss of binder.	✓		
5) Permanent Survey Markers	Look for damaged or missing markers.	✓		
6) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	✓		
	1.Condition of lock	✓		
	2.Visible ID of wells	✓		
	3.Ponding or infiltration of surface water	✓		
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	✓		

Report all deficiencies to the designated representative of United Technologies Corporation/Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) _____

Corrective Action: _____

2) _____

Corrective Action: _____

3) _____

Corrective Action: _____

4) _____

Corrective Action: _____

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Lawrence Engineering Assc	Rick Brainard	3/11/08	011032
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	Page 1 of 3
100 North Neck Drive	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		Jill D

Project Name and Location (State): Pkw East Hartford CT

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: ~~[illegible]~~ #22001162 88UT709

Analysis (Attach list if more space is needed): PCB's, ETPH, VOC's, Metals (Cu, Ni, Zn)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	PCB's	ETPH	VOC's	Metals (Cu, Ni, Zn)	Comments
1316372	3/11/08	10:40	✓			4							✓	✓			
1316372	3/11/08	10:40	✓						2						✓		
1316372uf	3/11/08	10:40	✓					1								✓	
1316373	3/11/08	12:10	✓			4							✓	✓			
1316373	3/11/08	12:10	✓						2						✓		
1316373uf	3/11/08	12:10	✓					1								✓	
1316374	3/11/08	13:55	✓			4							✓	✓			
1316374	3/11/08	13:55	✓						2						✓		
1316374uf	3/11/08	13:55	✓					1								✓	

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements:

1. Relinquished By	Date	Time	1. Received By	Date	Time
Scott Brown	3/11/08	1600	RCA Sample Fridge	3/11/08	1600
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
Rick J Brainard	3/12/08	0850	Richard L Ford	3/12/08	0850
3. Received By	**Date**	**Time**	**Cooler Temps**	**Passed Rad. Screen (Lab Use Only)**	
				☐ Yes ☐ No	

Comments: extra triplblank, not used, also included

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

#22001162

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
LEA	Rick Brainerd	3/11/08	011033

Address	Telephone Number (Area Code)/Fax Number/e-mail address	Field Telephone Number	Page 2 of 3
100 Northwest Dr	(860) 410-3018		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06067		

Project Name and Location (State): P+W East Hartford CT

Sample Disposal: ☐ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: ~~KB/2007-606~~ 88UT709 #22001162

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other ICE	VOC's	PCB	ETPH	Metals (uf)	RCRA+(Zn, Copper, Nickel)					Comments
1316368 UF	3/11/08	10:05	X					1				X				X						
1316368	↓	↓	X						2			↓	X									
1316368	↓	↓	X			4						↓		X	X							
1316371 uf	↓	↓	X					1				↓				X						
✓ 1316371	↓	↓	X						2			↓	X									
1316371	↓	↓	X			4						↓		X	X							
1316369 uf	↓	12:10	X					1				↓				X						
1316369	↓	↓	X						2			↓	X									
1316369	↓	↓	X			4						↓		X	X							
1316370 uf	↓	13:55	X					1				X				X						

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

	Date	Time		Date	Time
1. Relinquished By: [signature]	3/11/08	1600	1. Received By: LEA Sample Fridge	3/11/08	1600
2. Relinquished By: [signature]	3/12/08	0850	2. Received By: [signature]	3/12/08	0850
3. Received By:			Cooler Temps		

Passed Rad. Screen (Lab Use Only): ☐ Yes ☐ No

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Lourenco Engineering Assoc	Rick Brainard	3/11/08	011034
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	Page 3 of 3
100 North West Drive	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	Ct	06067		

Project Name and Location (State): P&W East Hartford Ct

Sample Disposal: ☐ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: ~~KB/2007-606~~ #2200162 88UT709

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	PCB's	ETPH	VOC's	Metals (PCB's, Cu, Ni, Zn)						Comments
1316375	3/11/08	14:25	X			4							✓	✓								
1316375	3/11/08	14:25	X						2						✓							
1316375vf	3/11/08	14:25	X					1								✓						
1316376	3/11/08	14:35	X						2						✓							Top Blank
1316370	3/11/08	13:55	X			4							✓	✓								
1316370	3/11/08	13:55	X						2						✓							
1316377	3/11/08	12:00	X			2								✓								
1316378	3/11/08	12:00	X			2							✓									
✓ 1316378	3/11/08	1200	X						3						✓							
1316378vf	3/11/08	1200	X					1								✓						

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

	Date	Time		Date	Time
1. Relinquished By: Scott Brown	3/11/08	1600	1. Received By: Left Sample Fridge	3/11/08	1600
2. Relinquished By: R J Brown	3/12/08	0850	2. Received By: Richard L J Rod	3/12/08	0850
3. Received By:			Cooler Temps:	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments ✓

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

APPENDIX B

Quality Assurance and Quality Control Procedures and Evaluation

Appendix B

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND EVALUATION

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings
Pratt & Whitney
East Hartford, Connecticut

1. QUALITY ASSURANCE /QUALITY CONTROL SUMMARY

During the course of the 2008 Post-Remediation Groundwater Monitoring activities, analytical and observational data were obtained for F&H Buildings Project Area (hereinafter referred to as the "Site"). These data included analytical data on groundwater samples, field activities documentation, sample tracking documentation, and other documentation associated with sample collection and analysis.

During the course of groundwater monitoring activities, the need to maintain accurate and complete documentation was a paramount concern. Included in this document are a description of the activities undertaken to document, manage, validate, verify, organize, and present the data compiled; a discussion of the types and quantities of Quality Assurance/Quality Control (QA/QC) samples that were collected during field activities; and an evaluation of the analytical data generated as a result of laboratory QA/QC procedures. The evaluation of laboratory QA/QC information includes a Data Quality Assessment (DQA) and a Data Usability Evaluation (DUE) that was performed in accordance with procedures described in the November 2007 guidance document entitled *Reasonable Confidence Protocols,* published by the Connecticut Department of Environmental Protection (CTDEP).

2. DATA MANAGEMENT PROCEDURES

This section has been organized to present those activities performed by personnel to document the record of post-remediation groundwater monitoring activities performed in the field and discuss the QA/QC activities performed in the field. These discussions are followed by a description of the activities undertaken by personnel in the office to ensure the necessary data have been accumulated, that the data have been properly managed, tracked, validated, verified, entered into the database repository, presented appropriately, and at the conclusion of monitoring events, filed for future use.

2.1 Standard Operating Procedures

Prior to conducting groundwater monitoring activities at the Site, Standard Operating Procedures (SOPs) had been developed for the most common procedures associated with the sampling and analysis of various media for environmental investigations. Development of these SOPs has taken into account the need for precision, accuracy, completeness, representativeness, and comparability of data.

Although it is understood that there are limits on data accuracy and precision that are inherent in the collection and analysis of samples and in the operation of measuring devices, adherence to standard procedures will increase consistency and the level of confidence with which the data collected are evaluated. Data collected under standard procedures can also be used more reliably in comparing results over time on a given project or from other projects or published information.

Data evaluation is also dependent upon the representativeness of the samples or measurements collected and the completeness of information associated with collection of the data. Collection and measurement techniques identified in the SOPs have been designed to take these factors into account, thus increasing the level of confidence that can be placed in the data.

Understanding that adherence to SOPs is imperative for the successful completion of any project, there will be instances where exceptions to the SOPs must be made to obtain reliable data. When

exceptions are made, documentation of both the situation requiring deviation and the actual deviation in procedure was recorded in the field documentation.

Each SOP was developed by personnel experienced in the performance of the specific activity. At least two senior-level people, one being the Director of Quality, reviewed the SOP to ensure that the identified procedures satisfy the stated objectives and that the prescribed procedures are technically correct, appropriately applied, and in conformance with applicable regulatory criteria and standard practices. These individuals signified their approval by signing and dating the SOP.

SOPs for the following activities have been included as Attachment B-1 of this document. Loureiro Engineering Associates (LEA) SOPs provided in Attachment B-1 include those for:

- Low Flow Sampling;
- Liquid Sample Collection and Field Analysis; and
- Quality Assurance/Quality Control Measures for Field Activities.

2.2 Field Quality Assurance Procedures

Field quality assurance (QA) procedures begin with the use and maintenance of field equipment and instrumentation and include the proper calibration of the equipment.

2.2.1 Use and Maintenance of Field Equipment and Instrumentation

Field equipment and instruments were operated and maintained in a manner that is consistent with the manufacturer's recommended practices. Deviations from standard use of the equipment or required repairs or adaptations made in the field were noted in the Field Record and/or field logbook. Operation and maintenance manuals for equipment were kept in a single location that was known and accessible to personnel that would be likely to use the equipment.

Field personnel either returned equipment in a condition that permitted its optimal use on the following day of field operations, or notified the appropriate personnel so that repairs/replacements could be arranged in an expedient fashion. The use of expendable equipment was recorded and reported to appropriate personnel so replacements could be ordered in a timely manner and an adequate supply was available.

Prior to starting a particular field investigation, the field services manager or designated personnel ensured that adequate supplies and equipment were available for project completion. It was the responsibility of field personnel to inform the field services manager or other authorized personnel that supplies were depleted and that re-ordering was necessary.

2.2.2 Calibration Procedures and Frequency

Instruments and equipment were calibrated with sufficient frequency and in such a manner that accuracy and reproducibility of results were consistent with the appropriate manufacturer's specifications or project-specific requirements. Calibration was performed at intervals recommended by the manufacturer or more frequently, as conditions dictated. The field instruments that required calibration during the groundwater monitoring activities were the photoionization detector (PID); the pH, dissolved oxygen, and specific conductance sensors of the flow-through cells; and the turbidity meters. Documentation of the calibration that was performed was recorded on field documentation forms, analytical records, or other appropriate daily record of activities.

2.2.3 Decontamination

Decontamination procedures are described in applicable SOPs presented in Attachment B-1. These procedures were designed to avoid cross-contamination between samples, the transport of contaminated material between onsite locations, and the transport of contaminated material from offsite locations to the Site or from the Site to the off-site locations. As described in Section 3.2 of this appendix, equipment blank samples were collected to confirm the efficiency of decontamination procedures during groundwater sampling activities.

2.3 Sample Tracking

Sample tracking activities focused on the timely assignment and tracking of information relevant to field samples collected during the Subsurface Investigation activities. Samples collected during the investigation were designated using the procedures discussed below.

Field sample tracking included the following tasks:

- Assignment of sample identification numbers and other sample identifiers to new samples to be taken, and entry to a tracking system;
- Production of sample bottle labels from the tracking system;
- Completion of chain-of-custody forms, and entry of this information to the tracking system;
- Entry of additional tracking dates to the tracking system;
- QA checking of the sample tracking information, and processing of change requests; and,
- Production of tracking reports and summary sheets, with distribution to appropriate project staff.

A computer-based sample-tracking system, based on a dBase® database computer program, was used for sample tracking.

2.3.1 Sample Location Identification

Samples were designated location identifiers previously assigned using the procedure described in the SOPs included in Attachment B-1. In general, sample identification information included the following:

- Sample type (e.g. monitoring well.); and
- Sample point number.

Monitoring wells have been provided with location identifiers using a systematic method to prevent duplication of location identifiers. Additionally, a two letter prefix identifying the former F Building or H Building area of Main Street facility (FB or HB, respectively) was also included in the location identifiers. An example of each sample location identifier for each area is provided below:

- F Building: FB-MW-01
- H Building: HB-MW-01

The system of location identifiers provides a relatively easy means of finding the referenced locations on site drawings.

2.3.2 Sample Labeling and Custody

Prior to sample collection, project-specific sample numbers were obtained, and labels completed with all required information, as noted in the sample collection SOPs. Each sample was labeled using waterproof ink on a computer-generated label, and sealed immediately after collection. At a minimum, each sample label had the following information:

- Project number;
- Date;
- Sample number; and
- Time of sample collection.

In order to ensure accurate identification of all sample containers, sample labels and tags needed to remain firmly affixed to the sample container. The sampler was responsible to ensure that the sample container was dry enough for the label to remain securely attached, or use a suitable transparent adhesive tape when the adhesive labels were not applicable or there was any question as to whether the gummed label would be secure.

All sampling information was recorded on the field sampling records. Written chain-of-custody procedures were followed whenever samples are collected, transferred, stored, analyzed, or destroyed. The objective of these procedures was to create an accurate written record that could be used to trace the possession and handling of the samples from its collection through analysis. A sample was determined to be in someone's "custody" under any of the following conditions:

- It was in one's actual possession;
- It was in one's view, after being in one's physical possession;
- It was placed and kept in a locked location after being in one's physical possession; and
- It was kept in a secured area that was restricted to authorized personnel only.

Each time sample custody changes hands, the chain-of-custody form indicates that change. All efforts were made to limit the number of people involved in the collection and handling of samples. The field sampler was responsible for the care and custody of the samples collected

until they were transferred under the appropriate chain-of-custody procedures. Specific chain-of-custody procedures are described in the LEA SOP for *Quality Assurance/Quality Control Measures for Field Activities* included in Attachment B-1 of this document.

2.3.3 Field Documentation

Daily Field Reports and other project information tracking forms were used to record general field data collection activities or pertinent field observation or occurrences. These forms consisted of the loose-leaf field documentation forms completed daily by field crews. Entries were made in waterproof ink and each page was consecutively numbered for each sampling day. Each daily entry included the following information:

- Name of person recording information;
- Names of all field personnel;
- Project name and number;
- Date;
- Start and end times;
- Weather conditions;
- Equipment used;
- Samples collected;
- Field parameters measured; and,
- Equipment calibration performed.

Other information that was recorded in the field logs included the level of personal protective equipment used, difficulties, accidents, incidents, equipment problems or malfunctions, or deviations from proposed scope of work.

Any corrections made in the field logs were crossed out, not erased, and initialed by the person making the correction. Each page of the logs was signed by the person responsible for recording

information on that day. All lines on a page, and all pages, were used or crossed out and initialed.

This information was transmitted from field to office personnel at the end of each working day, or as soon thereafter as possible, for input into LEA's Information Management System (IMS). The Daily Field Reports and forms, in turn, were placed in the central project file.

2.3.4 Mapping

The location of each monitoring well was previously surveyed by a State of Connecticut licensed surveyor. All of the information used to locate sampling points on the Site was transferred to AutoCAD® drawings that served as the base maps for data presentation in this report.

2.4 Field Sampling Quality Assurance

QA samples were collected in general accordance with the LEA SOP for *QA/QC Measures for Field Activities*, included in Attachment B-1 of this document. The purpose of the QA samples is to confirm the reliability and validity of the field data gathered during the course of the groundwater monitoring activities. Field duplicate samples were used to provide a measurement of the consistency of samples from the same sampling station and an estimate of variance and bias. Trip and equipment blanks were used to provide a measurement of cross-contamination sources and decontamination efficiency, respectively for groundwater sampling. Performance Evaluation (PE) samples are used to assess the overall accuracy and bias of the analytical methods being used and provide an indication of overall laboratory performance. Section 2 provides a discussion of the QA/QC sampling results.

2.5 Sample Shipping

Following sample collection, the filled sample containers were placed in coolers and packed appropriately to avoid bottle breakage. Either freezer packs or ice packed in re-sealable plastic bags or plastic containers were placed in the coolers to keep the samples at a temperature not exceeding 4° Celsius during transport. At the end of each sampling day, samples were picked up by the analytical laboratory's courier service or brought back to LEA's Plainville, Connecticut,

office and placed into LEA's External Laboratory Refrigerator for pick up the next day by the analytical laboratory's courier service.

2.5.1 Samples Submitted for Laboratory Analysis

Groundwater samples collected and submitted to the laboratory for analysis were appropriately labeled and logged on chain-of-custody forms. Copies of completed chain-of-custody records for samples submitted for analysis or archiving were submitted to the Project Manager at the end of each working day or as soon thereafter as possible.

2.5.2 Laboratory Analytical Results

The analytical results from laboratory were delivered in both paper and electronic formats to the Project Manager. After documentation of receipt of the results, the electronic format was entered into the electronic database by the Database Manager.

2.6 Database Management

The electronic analytical database was maintained in the LEA IMS in a dBASE® format. The database management functions are described in the following paragraphs.

2.6.1 Database Administration

Database administration included coordination of data entry and verification and review of data for completeness and correctness. The Database Manager interfaced with the Project Manager and field personnel to ensure that the database met the project objectives.

2.6.2 Electronic Data Entry

The electronic data deliverable (EDD) files provided by the analytical laboratory were uploaded to the electronic analytical database by the Database Manager. Data received from the laboratory in electronic format were checked for completeness by comparing data received with data analyses requested in the chain-of-custody forms. Analytical data were verified to assure the accuracy of the electronic, as compared to the hardcopy, analytical laboratory reports. Data verification involved having a qualified person other than the Database Manager manually check

a printout from the electronic database against the paper copies of the original laboratory reports. Any deviations from the hardcopies were reported to the Database Manager, and the subsequent changes re-checked to verify their accuracy. In addition, the sample identification number, location, constituent, and qualifier codes were also verified.

2.6.3 Archiving of Electronic Data

Archiving of the electronic project database was routinely accomplished. Data were backed up on a no-less-than weekly basis. The permanent archive for the analytical and geological/hydrological data is both electronic and hard copy files maintained by LEA.

2.6.4 Data Verification

The field personnel performed an initial review of data obtained from field measurements. This review consisted of checking procedures utilized in the field, ensuring that field measurement instruments were properly calibrated, verifying the accuracy of transcriptions, and comparing data obtained in the field to historic measurements. Field records were subsequently reviewed following completion of each day's field activities for completeness and consistency.

An internal review of analytical data was the responsibility of laboratory personnel. The analyst initiated the data review process by examining and accepting the data. The data reviewer then reviewed the completed data package. The data reviewer provided a technical review for accuracy and precision according to the methods employed and laboratory protocols. The data package was also reviewed for completeness (i.e., all pertinent information is included, all appropriate forms are signed and dated, calculations are correct, and holding times and quality control sample acceptance criteria have been met). A final review of the data was provided by the Project Manager to ensure that the data package met the project specifications.

2.7 Data Presentation

The objective of data presentation was to illustrate the analytical and geologic data for the Site in formats that facilitated data interpretation and visualization. These formats include tables, figures, and drawings, as appropriate.

2.7.1 Analytical Data Presentation

Use of the electronic database for storage and retrieval of a wide range of both sample collection and analytical information maximized the ease and accuracy of data review and presentation. Tables of analytical and sampling information were produced in multiple formats to assist in the data evaluation process. Examples of analytical data presentations incorporated in this report include: tabular listings of analyses conducted, sorted by location and sample identification number, and summaries of exceedances of tabulated numeric criteria in the CTDEP's Remediation Standard Regulations (RSRs).

2.7.2 Facility Drawings

Facility drawings were created using AutoCAD® software. Base maps were generated using available information provided by Pratt & Whitney.

2.7.3 Graphical Data Display

Graphical data display combined analytical data with information from the facility base map. Graphical outputs included the aerial distribution of contaminant concentrations in groundwater.

2.8 File Organization

Files of original analytical data obtained during the groundwater monitoring events were maintained throughout data evaluation process and ultimately archived in a central file. Incoming data were logged into the project file both on the project analytical database and on hardcopy and then were appropriately placed in the file. Analytical results from the laboratories were keyed electronically to the sample identification numbers assigned during sample collection. Original field documentation forms, paper copies of laboratory reports, and other project files information were transferred from the project file to a designated archive location upon the completion of the project. Computerized data were stored in both hard copy and electronic back-up formats.

3. QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

QA/QC samples collected during the 2008 Post-remediation Groundwater Monitoring Program included: duplicate groundwater samples; equipment blanks; trip blanks; and PE samples. The duplicate samples, equipment blanks, and PE samples were analyzed for the same suite of constituents as the field samples, and trip blanks were analyzed for volatile organic compounds (VOCs) only.

3.1 Field Duplicate Samples

Field duplicate samples were collected to provide a measure of the reproducibility of field sampling and laboratory analytical methodologies. Duplicate samples are coded in a fashion that did not alert the laboratory to the fact that the samples are replicates. Consistency between analytical results for field duplicate samples indicates consistent field sampling, sample handling, and analytical laboratory procedures. The consistency between field duplicate pairs is often measured by calculating the relative percent difference (RPD) for detects in a field duplicate pair when a compound was reported at greater than two times the sample quantitation limit in both samples. Field duplicate precision were met when the RPD was less than or equal to 30 percent for aqueous samples (which is based upon the United States Environmental Protection Agency (EPA) Region I Tier II Validation Guidance). If the RPD exceeded the acceptable limit, the affected compound(s) results were considered to be estimated values (no directional bias) and data usability was evaluated based on the project objectives. The RPD is calculated from the following formula:

$$RPD = \frac{|X_1 - X_2|}{(X_1 + X_2)/2} \times 100\%$$

where X_1 and X_2 represent the two reported concentration measurements.

One duplicate groundwater sample was collected during each quarterly monitoring event for analysis for VOCs, ETPH, PCBs, and metals. A summary of field duplicate analytical data for groundwater samples is presented in Table B-1 attached to this appendix.

3.1.1 Volatile Organic Compounds

Four duplicate groundwater sample pairs were submitted to TestAmerica for VOC analysis. Field duplicates for VOCs were submitted at a frequency of one per monitoring event. There were four duplicate compound pair RPDs with concentrations reported at greater than two times the reporting limit. The calculated RPDs ranged from 0 percent to 11.32 percent. Therefore 100 percent of these results were within the acceptance criteria.

3.1.2 Extractable Total Petroleum Hydrocarbons

Four duplicate groundwater sample pairs were submitted to TestAmerica for EPTH analysis. Field duplicates for ETPH were submitted at a frequency of one per monitoring event. There was one duplicate pair RPD with concentrations reported at greater than two times the reporting limit. The RPD was 20.0 percent. Therefore, 100 percent of these results were within the 30 percent acceptance criteria.

3.1.3 Polychlorinated Biphynels

Four duplicate groundwater sample pairs were submitted to TestAmerica for PCB analysis. Field duplicates for PCBs were submitted at a frequency of one per monitoring event. PCBs were not detected in any groundwater sample collected.

3.1.4 Metals

Four duplicate groundwater sample pairs were submitted to TestAmerica for metals analysis. Field duplicates for metals were submitted at a frequency of one per monitoring event. There were eight duplicate compound pair RPDs with concentrations reported at greater than two times the reporting limit. The RPDs ranged from 0 percent to 5.0 percent. Therefore 100 percent of these results were within the acceptance criteria.

Results that did not meet criteria for field duplicate precision were considered to be estimated concentrations. Usability of estimated data was determined by comparing the higher of the two estimated concentrations in each duplicate pair with the corresponding RSR criteria.

3.2 Equipment Blank Samples

Equipment blank samples are used to indicate if any cross-contamination of samples between uses of sampling equipment or contamination to samples from disposable equipment may have occurred. Field equipment blank samples are collected by pouring laboratory-provided water (analyte-free, de-ionized) through and/or over decontaminated or disposable sampling equipment into appropriate containers. The criteria for evaluating equipment blanks were such that no target compound should be present at or above the sample quantitation limit in any given equipment blank. A summary of equipment blank analytical data is presented in Table B-2 attached to this appendix.

One equipment blank for groundwater sampling was collected during each quarterly monitoring event for analysis for VOCs, ETPH, PCBs, and metals. ETPH, PCBs, or metals were not detected in any equipment blank collected during the four 2008 monitoring events.

Three VOCs were detected in the equipment blank submitted for analysis. Acetone, trichloroethylene, and methylene chloride were detected in the equipment blank collected during the March 2008 monitoring event. In addition, acetone was detected in the equipment blank collected during the September 2008 monitoring event and methylene chloride was also detected in the equipment blank collected during the December 2008 monitoring event. The results from seven groundwater samples associated with those equipment blank samples were flagged based on equipment blank results and evaluated for usability.

3.3 Trip Blank Samples

Trip blank samples are used to indicate if any cross-contamination between samples or contamination from other sources of VOCs may have occurred during transport, storage, or laboratory analysis of samples. Trip blanks were prepared by TestAmerica using ultra-pure, de-ionized water and submitted to the sampling team whenever glassware was delivered. A trip blank accompanied all project VOC sample containers through all custody changes in possession, coolers and refrigerators. The trip blanks were never opened by the sampling team.

Trip blanks were included with all shipments of VOC samples. Four trip blanks were submitted to TestAmerica for analysis. A summary of trip blank analytical data is presented in Table B-3 attached to this appendix.

Three VOCs were detected at concentrations above the quantitation limit in two of the trip blanks submitted with samples. The VOCs detected include: acetone and methylene chloride during the march 2008 monitoring event and carbon disulfide during the June 2008 monitoring event. The results from four samples were flagged and evaluated for usability. However, all three VOCs detected in the trip blanks are common laboratory contaminants; therefore their detection in the trip blanks is not believed to be due to sample container contamination

3.4 Performance Evaluation Samples

Double blind aqueous PE samples were submitted to TestAmerica during the March 2008 monitoring event. The PE sample data were used to assess the overall accuracy and bias of the analytical methods being used and provide an indication of overall laboratory performance. Data for the PE samples also provided information about the magnitude and direction of quantitative bias for the laboratory methods, including sample preparation (extraction and cleanup) and analysis (chromatography and calibration). The PE samples were evaluated for false negatives, false positives, and inaccurate target compound quantitation. Performance evaluation sample certified values and results of the performance sample evaluation are included as Attachment B-2.

The PE samples for this project were prepared by Environmental Resource Associates of Arvada, Colorado. All results for PE samples were compared with vendor-certified acceptance limits. The PE samples results were evaluated for pass and fail. Fails were categorized as bias high, bias low, false negatives and false positives. An assessment of PE sample data is presented in Table B-4.

VOCs: The PE sample was submitted with 31 PE VOCs for evaluation; however, the laboratory only reported results for 26 of those compounds. Due to the concentration of the spiked VOCs, this sample was diluted and reanalyzed. Seventy-seven percent of all VOC PE results for the undiluted sample and 96 percent of all VOC PE results for the diluted sample were reported

within vendor-certified acceptance limits. The PE VOC sample results were reported with a false positive for ethylene dibromide in both the undiluted and diluted sample and cis-1,2-dichlorethylene for the undiluted sample. No false negatives were reported.

ETPH: The ETPH PE results were reported within vendor-certified acceptance limits.

PCBS: The PCB PE results were reported within vendor-certified acceptance limits. No false positives or false negatives were reported.

Metals: The PE sample was submitted with 21 PE metal compounds for evaluation, however, the laboratory only analyzed for 10 of those compounds. Ninety percent of the PE results for metals were reported within vendor-certified acceptance limits. No false positives or false negatives were reported.

4. ASSESSMENT OF LABORATORY QA/QC INFORMATION

All data were analyzed using the Connecticut Reasonable Confidence Protocols (RCPs), which are analytical methods based on the respective EPA methods. The RCPs provide specific requirements for QA/QC that the laboratory must follow during analysis of environmental samples. In addition, the RCP methods require the laboratory to report the QA/QC analytical data associated with the analysis of each sample in the laboratory report and further require that the laboratory provide a narrative of any non-conformances for QA/QC data the were outside the acceptable limits for such data, as described in the specific RCP method.

QA/QC information provided by laboratories using the RCP methods was assessed and evaluated in accordance with the guidelines for performing DQAs and DUEs. The DQA process in intended to assess the quality of the analytical data generated by the laboratories using the QA/QC information provided with the laboratory reports for all data generated using RCP methods, as well as the QA/QC information provided by the laboratory that described non-conformances with QA/QC requirements specific in the RCP methods. The DUE is performed to determine, once the quality of the analytical is known, whether the quality of that data will affect its usability for the intended purpose.

Analytical laboratory reports and DQA worksheets are included in Attachment B-3 and B-4, respectively.

4.1 Data Quality Assessment and Usability

All data was evaluated with respect to quality by conducting a DQA and DUE in accordance with the methodology described in the November 2007 guidance document entitled *Reasonable Confidence Protocols*. The DQA was performed to assess the quality of the analytical data in each laboratory analytical report package. The considerations used during the DQA are those described in the November 2007 guidance document. The DQA resulted in identifying data for which the quality could affect its potential use in decision-making. The DUE, which took into account the objectives for the data collection effort, and the intended use of the data, was performed using the information developed during the DQA. The RCP Data Quality Assessment Summary Reports that were generated during that assessment process are included in Attachment D-4.

Each analytical data package was reviewed in accordance with the DQA review process. The results of the DQA were then used in conjunction with site-specific CSM, Data Quality Objectives (DQOs), and knowledge of the contaminant concentrations and distribution to determine if any data for which the DQA indicated concerns with data quality could still be used for decision-making. Results of the DUE indicated that, with few exceptions, the data generated during the subsurface investigation were usable for the intended purpose. However, several deficiencies were noted and include:

- Surrogate recoveries outside the accepted range of variability for PCBs;
- Laboratory Control Spike (LCS) recoveries for outside the accepted range of variability; and
- Initial calibration curve and continuing calibration curve recoveries outside the accepted range of variability for select VOC constituents.

Deficiencies that are deemed to have the potential to impact the interpretation of the data are noted in the following paragraphs.

Poor recovery of several VOCs in the LCS associated with all of the groundwater samples collected during the March 2008, June 2008, and December 2008 monitoring events indicates a low bias for these constituents. While several of these constituents were not detected in these samples, the low bias indicates that the constituents may actually be present in the samples above laboratory reporting limits. However, the RLs for these VOCs were significantly lower than the applicable RSR criteria. In the case where these constituents were detected, the detected concentrations were well below the applicable RSR criteria.

The surrogate recovery for PCBs was low in the groundwater sample collected from monitoring well FB-MW-02 during the March 2008 monitoring event. The low surrogate recovery may indicate that the extent of PCB contamination in the associated sample is underestimated. Although, PCBs were not detected in the above referenced groundwater sample, the RLs for PCBs in that groundwater sample were above the applicable RSR criteria.

The rationale discussed in the foregoing statements, coupled with the number and type of QA/QC issues identified during the DQA, provide support for a conclusion that analytical results

for the samples collected during the four 2008 monitoring events were considered usable for decision-making purposes.

TABLES

Table B-1
SUMMARY OF FIELD DUPLICATE ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-04	HB-MW-04	RPD (%)	.	HB-MW-04	HB-MW-04	RPD (%)
	Sample ID	1316368	1316371			1324112	1324120	
	Sample Date	03/11/2008	03/11/2008			06/03/2008	06/03/2008	
	Sample Time	10:05	10:05			11:00	11:00	
	Sample Depth	4.00' - 14.00	4.00' - 14.00			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-4404-15	220-4404-16			220-5275-1	220-5275-13	
Constituent	Units							
Xylenes,m- & p-	ug/L							
Depth of Well	Ft	13.26	13.26	0.00		13.31	13.31	0.00
Depth to Water	Ft	7.53	7.53	0.00		8.18	8.18	0.00
Oxygen, Dissolved (field)	mg/L	6.34	6.34	0.00		0.36	0.36	0.00
Specific Conductivity (field)	uS/cm	271	271	0.00		544	544	0.00
Temperature	C	8.69	8.69	0.00		15.73	15.73	0.00
Turbidity (field)	NTU	1.11	1.11	0.00		4.21	4.21	0.00
pH (field measurement)	SU	7.74	7.74	0.00		7.03	7.03	0.00
Date PCBs Analyzed	-	03/19/2008	03/19/2008			06/10/2008	06/10/2008	
Date Metals Analyzed	-	03/17/2008	03/17/2008			06/12/2008	06/17/2008	
Date Organics Analyzed	-	03/21/2008	03/21/2008			06/07/2008	06/07/2008	
Date Physical Analyzed	-	03/20/2008	03/20/2008			06/10/2008	06/10/2008	
Arsenic (unfiltered)	mg/L	0.0029 J	<0.01 U			<0.01 U	<0.01 U	
Barium (unfiltered)	mg/L	0.029	0.029	0.00		0.029	0.029	0.00
Cadmium (unfiltered)	mg/L	<0.0025 U	<0.0025 U			<0.0025 U	<0.0025 U	
Chromium, Total (unfiltered)	mg/L	<0.0050 U	<0.0050 U			<0.0050 U	<0.0050 U	
Copper (unfiltered)	mg/L	0.0022 J	0.0021 J	4.65		<0.0050 U	<0.0050 U	
Lead (unfiltered)	mg/L	<0.0050 U	<0.0050 U			<0.0050 U	<0.0050 U	
Mercury (unfiltered)	mg/L	<0.00020 U	<0.00020 U			<0.00020 U	<0.00020 U	
Nickel (unfiltered)	mg/L	<0.0050 U	<0.0050 U			<0.0050 U	<0.0050 U	
Selenium (unfiltered)	mg/L	<0.015 U	<0.015 U			<0.015 U	<0.015 U	
Silver (unfiltered)	mg/L	<0.0025 U	<0.0025 U			<0.0025 U	<0.0025 U	
Zinc (unfiltered)	mg/L	<0.025 U	<0.025 U			<0.025 U	<0.025 U	
Arochlor 1016	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Arochlor 1221	ug/L	<1.1 U	<1.0 U			<1.1 U	<1.1 U	
Arochlor 1232	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Arochlor 1242	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Arochlor 1248	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	

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	Sample Time	10:05	10:05			11:00	11:00	
	Sample Depth	4.00' - 14.00	4.00' - 14.00			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-4404-15	220-4404-16			220-5275-1	220-5275-13	
Constituent	Units							
Arochlor 1254	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Arochlor 1260	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Arochlor 1262	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Arochlor 1268	ug/L	<0.54 U	<0.50 U			<0.53 U	<0.53 U	
Oxidation-Reduction Potential	mV	54.6	54.6	0.00		144.5	144.5	0.00
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	<0.11 U	0.14			<0.097 U	<0.095 U	
Naphthalene	ug/L							
Acetone	ug/L	<5.0 U	2.1 J			<5.0 U	<5.0 U	
Acetonitrile	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Acrolein	ug/L	<10 U	<10 U			<10 U	<10 U	
Acrylonitrile	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Benzene	ug/L	<0.50 U	<0.50 U			<0.50 U	<0.50 U	
1,2,3-Trichlorobenzene	ug/L							
1,2,4-Trichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,2,4-Trimethylbenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
o-Dichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,3,5-Trimethylbenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
m-Dichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
p-Dichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Bromobenzene	ug/L							
Butyl Benzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Ethylbenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Isopropylbenzene (Cumene)	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Isocumene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
sec-Butylbenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
tert-Butylbenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Hexachlorobutadiene	ug/L							

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	Sample Depth	4.00' - 14.00	4.00' - 14.00			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-4404-15	220-4404-16			220-5275-1	220-5275-13	
Constituent	Units							
Methyl Ethyl ketone	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
trans-1,4-Dichlorobutene	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
Carbon Disulfide	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Carbon Tetrachloride	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
4-Isopropyltoluene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1,1,2-Tetrachloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1,1-Trichloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1,2,2-Tetrachloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1,2-Trichloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1,2-Trichlorotrifluoroethane	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
1,1-Dichloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Ethylene Dibromide	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,2-Dichloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chloroethane	ug/L	<3.0 U	<3.0 U			<3.0 U	<3.0 U	
Methyl tert-Butyl ether	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1-Dichloroethylene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
trans-1,2-Dichloroethylene	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
cis-1,2-Dichloroethylene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Vinyl Chloride	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Tetrachloroethylene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Trichloroethylene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Tetrahydrofuran	ug/L	<3.0 U	<3.0 U			<3.0 U	<3.0 U	
Hexanone,2-	ug/L							
Bromomethane	ug/L	<3.0 U	<3.0 U			<3.0 U	<3.0 U	
Bromodichloromethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chloromethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chlorodibromomethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Methylene Dibromide	ug/L							

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	Sample Time	10:05	10:05			11:00	11:00	
	Sample Depth	4.00' - 14.00	4.00' - 14.00			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-4404-15	220-4404-16			220-5275-1	220-5275-13	
Constituent	Units							
Methylene Chloride	ug/L	<5.0 U	<5.0 U			<5.0 U*	<5.0 U*	
Dichlorodifluoromethane	ug/L	<1.0 U	<1.0 U			<1.0 U*	<1.0 U*	
Bromoform	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chloroform	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Trichlorofluoromethane	ug/L	0.28 J	0.25 J	11.32		<1.0 U	<1.0 U	
Methyl Isobutyl ketone	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
1,2,3-Trichloropropane	ug/L							
1,2-Dibromo-3-Chloropropane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,2-Dichloropropane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,3-Dichloropropane	ug/L							
sec-Dichloropropane	ug/L							
1,1-Dichloropropene	ug/L							
trans-1,3-Dichloropropene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
cis-1,3-Dichloropropene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Styrene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Toluene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
o-Chlorotoluene	ug/L							
p-Chlorotoluene	ug/L							
o-Xylene	ug/L							
Xylenes, Total	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
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Table B-1
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2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-05	HB-MW-05	RPD (%)	.	HB-MW-06	HB-MW-06	RPD (%)
	Sample ID	1113231	1113235			1104636	1104637	
	Sample Date	12/02/2008	12/02/2008			09/08/2008	09/08/2008	
	Sample Time	12:15	12:15			11:25	11:25	
	Sample Depth	4.80' - 14.80	4.80' - 14.80			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-7366-4	220-7366-7			220-6459-1	220-6459-4	
Constituent	Units							
Xylenes,m- & p-	ug/L	<1.0 U	<1.0 U			<1 U	<1 U	
Depth of Well	Ft	14.60	14.60	0.00		13.40	13.40	0.00
Depth to Water	Ft	9.91	9.91	0.00		8.15	8.15	0.00
Oxygen, Dissolved (field)	mg/L	5.62	5.62	0.00		6.29	6.29	0.00
Specific Conductivity (field)	uS/cm	1183	1183	0.00		217	217	0.00
Temperature	C	17.32	17.32	0.00		24.27	24.27	0.00
Turbidity (field)	NTU	1.12	1.12	0.00		2.84	2.84	0.00
pH (field measurement)	SU	6.14	6.14	0.00		5.67	5.67	0.00
Date PCBs Analyzed	-	12/12/2008	12/12/2008			09/11/2008	09/11/2008	
Date Metals Analyzed	-	12/11/2008	12/11/2008			09/18/2008	09/18/2008	
Date Organics Analyzed	-	12/12/2008	12/08/2008			09/15/2008	09/15/2008	
Date Physical Analyzed	-	12/09/2008	12/09/2008			09/22/2008	09/22/2008	
Arsenic (unfiltered)	mg/L	<0.0025 U	<0.0025 U			<0.003 U	<0.003 U	
Barium (unfiltered)	mg/L	0.14	0.14	0.00		0.061	0.059	3.3
Cadmium (unfiltered)	mg/L	<0.0025 U	<0.0025 U			<0.003 U	<0.003 U	
Chromium, Total (unfiltered)	mg/L	0.041	0.039	5.0		<0.01 U	<0.01 U	
Copper (unfiltered)	mg/L	0.03	0.029	0.00		<0.01 U	<0.01 U	
Lead (unfiltered)	mg/L	<0.0025 U	<0.0025 U			<0.004 U	<0.004 U	
Mercury (unfiltered)	mg/L	<0.00020 U	<0.00020 U			<0.0002 U	<0.0002 U	
Nickel (unfiltered)	mg/L	0.031	0.03	0.00		<0.005 U	<0.005 U	
Selenium (unfiltered)	mg/L	<0.0050 U	<0.0050 U			<0.01 U	<0.01 U	
Silver (unfiltered)	mg/L	<0.0025 U	<0.0025 U			<0.005 U	<0.005 U	
Zinc (unfiltered)	mg/L	<0.025 U	<0.025 U			0.05	<0.05 U	
Arochlor 1016	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Arochlor 1221	ug/L	<1.1 U	<1.1 U			<1 U	<1 U	
Arochlor 1232	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Arochlor 1242	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Arochlor 1248	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	

Table B-1
SUMMARY OF FIELD DUPLICATE ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-05	HB-MW-05	RPD (%)	.	HB-MW-06	HB-MW-06	RPD (%)
	Sample ID	1113231	1113235			1104636	1104637	
	Sample Date	12/02/2008	12/02/2008			09/08/2008	09/08/2008	
	Sample Time	12:15	12:15			11:25	11:25	
	Sample Depth	4.80' - 14.80	4.80' - 14.80			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-7366-4	220-7366-7			220-6459-1	220-6459-4	
Constituent	Units							
Arochlor 1254	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Arochlor 1260	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Arochlor 1262	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Arochlor 1268	ug/L	<0.56 U	<0.55 U			<0.5 U	<0.5 U	
Oxidation-Reduction Potential	mV	102.6	102.6	0.00		403.0	403.0	0.00
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	<0.1 U	<0.1 U			0.28	0.23	20.
Naphthalene	ug/L	<0.50 U	<0.50 U*			<0.5 U	<0.5 U	
Acetone	ug/L	<2.0 U	<2.0 U			<2 U	2.4	
Acetonitrile	ug/L							
Acrolein	ug/L							
Acrylonitrile	ug/L	<1.0 U	<1.0 U			<1 U	<1 U	
Benzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,2,3-Trichlorobenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,2,4-Trichlorobenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,2,4-Trimethylbenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
o-Dichlorobenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,3,5-Trimethylbenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
m-Dichlorobenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
p-Dichlorobenzene	ug/L	<0.50 U	<0.50 U*			<0.5 U	<0.5 U	
Bromobenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Butyl Benzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Chlorobenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Ethylbenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Isopropylbenzene (Cumene)	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Isocumene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
sec-Butylbenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
tert-Butylbenzene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Hexachlorobutadiene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	

Table B-1
SUMMARY OF FIELD DUPLICATE ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-05	HB-MW-05	RPD (%)	.	HB-MW-06	HB-MW-06	RPD (%)
	Sample ID	1113231	1113235			1104636	1104637	
	Sample Date	12/02/2008	12/02/2008			09/08/2008	09/08/2008	
	Sample Time	12:15	12:15			11:25	11:25	
	Sample Depth	4.80' - 14.80	4.80' - 14.80			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-7366-4	220-7366-7			220-6459-1	220-6459-4	
Constituent	Units							
Methyl Ethyl ketone	ug/L	<2.0 U	<2.0 U			<2 U	<2 U	
trans-1,4-Dichlorobutene	ug/L	<1.0 U	<1.0 U			<1 U	<1 U	
Carbon Disulfide	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Carbon Tetrachloride	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
4-Isopropyltoluene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1,1,2-Tetrachloroethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1,1-Trichloroethane	ug/L	<0.50 U	<0.50 U			2.9	2.9	0.00
1,1,2,2-Tetrachloroethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1,2-Trichloroethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1-Dichloroethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Ethylene Dibromide	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,2-Dichloroethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Chloroethane	ug/L	<1.0 U	<1.0 U			<1 U	<1 U	
Methyl tert-Butyl ether	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1-Dichloroethylene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
trans-1,2-Dichloroethylene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
cis-1,2-Dichloroethylene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Vinyl Chloride	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Tetrachloroethylene	ug/L	0.56	<0.50 U			4	4	0.00
Trichloroethylene	ug/L	<0.50 U	<0.50 U			0.76	0.74	2.7
Tetrahydrofuran	ug/L	<1.0 U	<1.0 U			<1 U	<1 U	
Hexanone,2-	ug/L	<2.0 U	<2.0 U			<2 U	<2 U	
Bromomethane	ug/L	<1.0 U	<1.0 U			<1 U	<1 U	
Bromodichloromethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Chloromethane	ug/L	<0.50 U*	<0.50 U			<0.5 U	<0.5 U	
Chlorodibromomethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Methylene Dibromide	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	

Table B-1
SUMMARY OF FIELD DUPLICATE ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	HB-MW-05	HB-MW-05	RPD (%)	.	HB-MW-06	HB-MW-06	RPD (%)
	Sample ID	1113231	1113235			1104636	1104637	
	Sample Date	12/02/2008	12/02/2008			09/08/2008	09/08/2008	
	Sample Time	12:15	12:15			11:25	11:25	
	Sample Depth	4.80' - 14.80	4.80' - 14.80			4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-			STL-	STL-	
	Lab. Number	220-7366-4	220-7366-7			220-6459-1	220-6459-4	
Constituent	Units							
Methylene Chloride	ug/L	<2.0 U*	<2.0 U			<2 U	<2 U	
Dichlorodifluoromethane	ug/L	<0.50 U*	<0.50 U*			<0.5 U*	<0.5 U*	
Bromoform	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Chloroform	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Trichlorofluoromethane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Methyl Isobutyl ketone	ug/L	<2.0 U	<2.0 U			<2 U	<2 U	
1,2,3-Trichloropropane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,2-Dibromo-3-Chloropropane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,2-Dichloropropane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,3-Dichloropropane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
sec-Dichloropropane	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
1,1-Dichloropropene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
trans-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
cis-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Styrene	ug/L	<0.50 U	<0.50 U*			<0.5 U	<0.5 U	
Toluene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
o-Chlorotoluene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
p-Chlorotoluene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
o-Xylene	ug/L	<0.50 U	<0.50 U			<0.5 U	<0.5 U	
Xylenes, Total	ug/L							
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Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1316375	1316375	1324119	1324119	1104642	1104642	1104642
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	14:25	14:25	15:30	15:30	14:20	14:20	14:20
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-19	220-4404-8	220-5275-16	220-5275-17	220-6459-23	220-6459-24	220-6459-25
Constituent	Units							
Xylenes,m- & p-	ug/L					<1 U		
Date PCBs Analyzed	-		03/19/2008	06/10/2008				09/11/2008
Date Metals Analyzed	-	03/17/2008			06/17/2008		09/18/2008	
Date Organics Analyzed	-		03/22/2008	06/07/2008		09/16/2008		
Date Physical Analyzed	-		03/20/2008	06/10/2008				09/22/2008
Arsenic (unfiltered)	mg/L	<0.01 U			<0.01 U		<0.003 U	
Barium (unfiltered)	mg/L	<0.0025 U			<0.0025 U		<0.005 U	
Cadmium (unfiltered)	mg/L	<0.0025 U			<0.0025 U		<0.003 U	
Chromium, Total (unfiltered)	mg/L	<0.0050 U			<0.0050 U		<0.01 U	
Copper (unfiltered)	mg/L	<0.0050 U			<0.0050 U		<0.01 U	
Lead (unfiltered)	mg/L	<0.0050 U			<0.0050 U		<0.004 U	
Mercury (unfiltered)	mg/L	<0.00020 U			<0.00020 U		<0.0002 U	
Nickel (unfiltered)	mg/L	<0.0050 U			<0.0050 U		<0.005 U	
Selenium (unfiltered)	mg/L	<0.015 U			<0.015 U		<0.01 U	
Silver (unfiltered)	mg/L	<0.0025 U			<0.0025 U		<0.005 U	
Zinc (unfiltered)	mg/L	<0.025 U			<0.025 U		<0.05 U	
Arochlor 1016	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1221	ug/L		<1.1 U	<1.1 U				<1 U
Arochlor 1232	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1242	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1248	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1254	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1260	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1262	ug/L		<0.56 U	<0.56 U				<0.5 U
Arochlor 1268	ug/L		<0.56 U	<0.56 U				<0.5 U
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		<0.12 U	<0.095 U				<0.1 U
Naphthalene	ug/L					<0.5 U		
Acetone	ug/L		2.9 J	<5.0 U		3.2		
Acetonitrile	ug/L		<5.0 U	<5.0 U				

Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1316375	1316375	1324119	1324119	1104642	1104642	1104642
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	14:25	14:25	15:30	15:30	14:20	14:20	14:20
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-19	220-4404-8	220-5275-16	220-5275-17	220-6459-23	220-6459-24	220-6459-25
Constituent	Units							
Acrolein	ug/L		<10 U	<10 U				
Acrylonitrile	ug/L		<5.0 U	<5.0 U		<1 U		
Benzene	ug/L		<0.50 U	<0.50 U		<0.5 U		
1,2,3-Trichlorobenzene	ug/L					<0.5 U		
1,2,4-Trichlorobenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,2,4-Trimethylbenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
o-Dichlorobenzene	ug/L		<1.0 U	<1.0 U		<0.5 U*		
1,3,5-Trimethylbenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
m-Dichlorobenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
p-Dichlorobenzene	ug/L		<1.0 U	<1.0 U		<0.5 U*		
Bromobenzene	ug/L					<0.5 U		
Butyl Benzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Chlorobenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Ethylbenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Isopropylbenzene (Cumene)	ug/L		<1.0 U	<1.0 U		<0.5 U		
Isocumene	ug/L		<1.0 U	<1.0 U		<0.5 U		
sec-Butylbenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
tert-Butylbenzene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Hexachlorobutadiene	ug/L					<0.5 U		
Methyl Ethyl ketone	ug/L		<2.0 U	<2.0 U		<2 U		
trans-1,4-Dichlorobutene	ug/L		<2.0 U	<2.0 U		<1 U		
Carbon Disulfide	ug/L		<1.0 U	<1.0 U		<0.5 U		
Carbon Tetrachloride	ug/L		<1.0 U	<1.0 U		<0.5 U		
4-Isopropyltoluene	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,1,1,2-Tetrachloroethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,1,1-Trichloroethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,1,2,2-Tetrachloroethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,1,2-Trichloroethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,1,2-Trichlorotrifluoroethane	ug/L		<2.0 U	<2.0 U		<0.5 U		

Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1316375	1316375	1324119	1324119	1104642	1104642	1104642
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	14:25	14:25	15:30	15:30	14:20	14:20	14:20
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-19	220-4404-8	220-5275-16	220-5275-17	220-6459-23	220-6459-24	220-6459-25
Constituent	Units							
1,1-Dichloroethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
Ethylene Dibromide	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,2-Dichloroethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
Chloroethane	ug/L		<3.0 U	<3.0 U		<1 U		
Methyl tert-Butyl ether	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,1-Dichloroethylene	ug/L		<1.0 U	<1.0 U		<0.5 U		
trans-1,2-Dichloroethylene	ug/L		<2.0 U	<2.0 U		<0.5 U		
cis-1,2-Dichloroethylene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Vinyl Chloride	ug/L		<1.0 U	<1.0 U		<0.5 U		
Tetrachloroethylene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Trichloroethylene	ug/L		0.11 J	<1.0 U		<0.5 U		
Tetrahydrofuran	ug/L		<3.0 U	<3.0 U		<1 U		
Hexanone,2-	ug/L					<2 U		
Bromomethane	ug/L		<3.0 U	<3.0 U		<1 U		
Bromodichloromethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
Chloromethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
Chlorodibromomethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
Methylene Dibromide	ug/L					<0.5 U		
Methylene Chloride	ug/L		1.9 J	<5.0 U*		<2 U		
Dichlorodifluoromethane	ug/L		<1.0 U	<1.0 U*		<0.5 U*		
Bromoform	ug/L		<1.0 U	<1.0 U		<0.5 U		
Chloroform	ug/L		<1.0 U	<1.0 U		<0.5 U		
Trichlorofluoromethane	ug/L		<1.0 U	<1.0 U		<0.5 U		
Methyl Isobutyl ketone	ug/L		<2.0 U	<2.0 U		<2 U		
1,2,3-Trichloropropane	ug/L					<0.5 U		
1,2-Dibromo-3-Chloropropane	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,2-Dichloropropane	ug/L		<1.0 U	<1.0 U		<0.5 U		
1,3-Dichloropropane	ug/L					<0.5 U		
sec-Dichloropropane	ug/L					<0.5 U		

Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1316375	1316375	1324119	1324119	1104642	1104642	1104642
	Sample Date	03/11/2008	03/11/2008	06/03/2008	06/03/2008	09/08/2008	09/08/2008	09/08/2008
	Sample Time	14:25	14:25	15:30	15:30	14:20	14:20	14:20
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-4404-19	220-4404-8	220-5275-16	220-5275-17	220-6459-23	220-6459-24	220-6459-25
Constituent	Units							
1,1-Dichloropropene	ug/L					<0.5 U		
trans-1,3-Dichloropropene	ug/L		<1.0 U	<1.0 U		<0.5 U		
cis-1,3-Dichloropropene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Styrene	ug/L		<1.0 U	<1.0 U		<0.5 U		
Toluene	ug/L		<1.0 U	<1.0 U		<0.5 U		
o-Chlorotoluene	ug/L					<0.5 U		
p-Chlorotoluene	ug/L					<0.5 U		
o-Xylene	ug/L					<0.5 U		
Xylenes, Total	ug/L		<2.0 U	<2.0 U				
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Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT				
	Sample ID	1113229	1113229	1113229				
	Sample Date	12/02/2008	12/02/2008	12/02/2008				
	Sample Time	14:30	14:30	14:30				
	Laboratory	STL-	STL-	STL-				
	Lab. Number	220-7366-20	220-7366-21	220-7366-22				
Constituent	Units							
Xylenes,m- & p-	ug/L	<1.0 U						
Date PCBs Analyzed	-			12/12/2008				
Date Metals Analyzed	-		12/11/2008					
Date Organics Analyzed	-	12/12/2008						
Date Physical Analyzed	-			12/09/2008				
Arsenic (unfiltered)	mg/L		<0.0025 U					
Barium (unfiltered)	mg/L		<0.0025 U					
Cadmium (unfiltered)	mg/L		<0.0025 U					
Chromium, Total (unfiltered)	mg/L		<0.0050 U					
Copper (unfiltered)	mg/L		<0.0050 U					
Lead (unfiltered)	mg/L		<0.0025 U					
Mercury (unfiltered)	mg/L		<0.00020 U					
Nickel (unfiltered)	mg/L		<0.0025 U					
Selenium (unfiltered)	mg/L		<0.0050 U					
Silver (unfiltered)	mg/L		<0.0025 U					
Zinc (unfiltered)	mg/L		<0.025 U					
Arochlor 1016	ug/L			<0.53 U				
Arochlor 1221	ug/L			<1.1 U				
Arochlor 1232	ug/L			<0.53 U				
Arochlor 1242	ug/L			<0.53 U				
Arochlor 1248	ug/L			<0.53 U				
Arochlor 1254	ug/L			<0.53 U				
Arochlor 1260	ug/L			<0.53 U				
Arochlor 1262	ug/L			<0.53 U				
Arochlor 1268	ug/L			<0.53 U				
Total Petroleum Hydrocarbons (CT ETPH)	mg/L			<0.1 U				
Naphthalene	ug/L	<0.50 U						
Acetone	ug/L	<2.0 U						
Acetonitrile	ug/L							

Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT				
	Sample ID	1113229	1113229	1113229				
	Sample Date	12/02/2008	12/02/2008	12/02/2008				
	Sample Time	14:30	14:30	14:30				
	Laboratory	STL-	STL-	STL-				
	Lab. Number	220-7366-20	220-7366-21	220-7366-22				
Constituent	Units							
Acrolein	ug/L							
Acrylonitrile	ug/L	<1.0 U						
Benzene	ug/L	<0.50 U						
1,2,3-Trichlorobenzene	ug/L	<0.50 U						
1,2,4-Trichlorobenzene	ug/L	<0.50 U						
1,2,4-Trimethylbenzene	ug/L	<0.50 U						
o-Dichlorobenzene	ug/L	<0.50 U						
1,3,5-Trimethylbenzene	ug/L	<0.50 U						
m-Dichlorobenzene	ug/L	<0.50 U						
p-Dichlorobenzene	ug/L	<0.50 U						
Bromobenzene	ug/L	<0.50 U						
Butyl Benzene	ug/L	<0.50 U						
Chlorobenzene	ug/L	<0.50 U						
Ethylbenzene	ug/L	<0.50 U						
Isopropylbenzene (Cumene)	ug/L	<0.50 U						
Isocumene	ug/L	<0.50 U						
sec-Butylbenzene	ug/L	<0.50 U						
tert-Butylbenzene	ug/L	<0.50 U						
Hexachlorobutadiene	ug/L	<0.50 U						
Methyl Ethyl ketone	ug/L	<2.0 U						
trans-1,4-Dichlorobutene	ug/L	<1.0 U						
Carbon Disulfide	ug/L	<0.50 U						
Carbon Tetrachloride	ug/L	<0.50 U						
4-Isopropyltoluene	ug/L	<0.50 U						
1,1,1,2-Tetrachloroethane	ug/L	<0.50 U						
1,1,1-Trichloroethane	ug/L	<0.50 U						
1,1,2,2-Tetrachloroethane	ug/L	<0.50 U						
1,1,2-Trichloroethane	ug/L	<0.50 U						
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50 U						

Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT				
	Sample ID	1113229	1113229	1113229				
	Sample Date	12/02/2008	12/02/2008	12/02/2008				
	Sample Time	14:30	14:30	14:30				
	Laboratory	STL-	STL-	STL-				
	Lab. Number	220-7366-20	220-7366-21	220-7366-22				
Constituent	Units							
1,1-Dichloroethane	ug/L	<0.50 U						
Ethylene Dibromide	ug/L	<0.50 U						
1,2-Dichloroethane	ug/L	<0.50 U						
Chloroethane	ug/L	<1.0 U						
Methyl tert-Butyl ether	ug/L	<0.50 U						
1,1-Dichloroethylene	ug/L	<0.50 U						
trans-1,2-Dichloroethylene	ug/L	<0.50 U						
cis-1,2-Dichloroethylene	ug/L	<0.50 U						
Vinyl Chloride	ug/L	<0.50 U						
Tetrachloroethylene	ug/L	<0.50 U						
Trichloroethylene	ug/L	<0.50 U						
Tetrahydrofuran	ug/L	<1.0 U						
Hexanone,2-	ug/L	<2.0 U						
Bromomethane	ug/L	<1.0 U						
Bromodichloromethane	ug/L	<0.50 U						
Chloromethane	ug/L	<0.50 U*						
Chlorodibromomethane	ug/L	<0.50 U						
Methylene Dibromide	ug/L	<0.50 U						
Methylene Chloride	ug/L	3.0 *						
Dichlorodifluoromethane	ug/L	<0.50 U*						
Bromoform	ug/L	<0.50 U						
Chloroform	ug/L	<0.50 U						
Trichlorofluoromethane	ug/L	<0.50 U						
Methyl Isobutyl ketone	ug/L	<2.0 U						
1,2,3-Trichloropropane	ug/L	<0.50 U						
1,2-Dibromo-3-Chloropropane	ug/L	<0.50 U						
1,2-Dichloropropane	ug/L	<0.50 U						
1,3-Dichloropropane	ug/L	<0.50 U						
sec-Dichloropropane	ug/L	<0.50 U						

Table B-2
SUMMARY OF EQUIPMENT BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT				
	Sample ID	1113229	1113229	1113229				
	Sample Date	12/02/2008	12/02/2008	12/02/2008				
	Sample Time	14:30	14:30	14:30				
	Laboratory	STL-	STL-	STL-				
	Lab. Number	220-7366-20	220-7366-21	220-7366-22				
Constituent	Units							
1,1-Dichloropropene	ug/L	<0.50 U						
trans-1,3-Dichloropropene	ug/L	<0.50 U						
cis-1,3-Dichloropropene	ug/L	<0.50 U						
Styrene	ug/L	<0.50 U						
Toluene	ug/L	<0.50 U						
o-Chlorotoluene	ug/L	<0.50 U						
p-Chlorotoluene	ug/L	<0.50 U						
o-Xylene	ug/L	<0.50 U						
Xylenes, Total	ug/L							
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Table B-3
SUMMARY OF TRIP BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK			
	Sample ID	1316376	1324118	1104643	1113234			
	Sample Date	03/11/2008	06/03/2008	09/08/2008	12/02/2008			
	Sample Time	14:35	10:00	10:30	09:00			
	Laboratory	STL-	STL-	STL-	STL-			
	Lab. Number	220-4404-9	220-5275-15	220-6459-22	220-7366-10			
Constituent	Units							
Xylenes,m- & p-	ug/L			<1 U	<1.0 U			
Date Organics Analyzed	-	03/22/2008	06/07/2008	09/15/2008	12/08/2008			
Naphthalene	ug/L			<0.5 U	<0.50 U*			
Acetone	ug/L	2.2 J	<5.0 U	<2 U	<2.0 U			
Acetonitrile	ug/L	<5.0 U	<5.0 U					
Acrolein	ug/L	<10 U	<10 U					
Acrylonitrile	ug/L	<5.0 U	<5.0 U	<1 U	<1.0 U			
Benzene	ug/L	<0.50 U	<0.50 U	<0.5 U	<0.50 U			
1,2,3-Trichlorobenzene	ug/L			<0.5 U	<0.50 U			
1,2,4-Trichlorobenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,2,4-Trimethylbenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
o-Dichlorobenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,3,5-Trimethylbenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
m-Dichlorobenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
p-Dichlorobenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U*			
Bromobenzene	ug/L			<0.5 U	<0.50 U			
Butyl Benzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Chlorobenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Ethylbenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Isopropylbenzene (Cumene)	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Isocumene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
sec-Butylbenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
tert-Butylbenzene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Hexachlorobutadiene	ug/L			<0.5 U	<0.50 U			
Methyl Ethyl ketone	ug/L	<2.0 U	<2.0 U	<2 U	<2.0 U			
trans-1,4-Dichlorobutene	ug/L	<2.0 U	<2.0 U	<1 U	<1.0 U			
Carbon Disulfide	ug/L	<1.0 U	1.8	<0.5 U	<0.50 U			
Carbon Tetrachloride	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
4-Isopropyltoluene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			

Table B-3
SUMMARY OF TRIP BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK			
	Sample ID	1316376	1324118	1104643	1113234			
	Sample Date	03/11/2008	06/03/2008	09/08/2008	12/02/2008			
	Sample Time	14:35	10:00	10:30	09:00			
	Laboratory	STL-	STL-	STL-	STL-			
	Lab. Number	220-4404-9	220-5275-15	220-6459-22	220-7366-10			
Constituent	Units							
1,1,1,2-Tetrachloroethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,1,1-Trichloroethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,1,2,2-Tetrachloroethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,1,2-Trichloroethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,1,2-Trichlorotrifluoroethane	ug/L	<2.0 U	<2.0 U	<0.5 U	<0.50 U			
1,1-Dichloroethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Ethylene Dibromide	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,2-Dichloroethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Chloroethane	ug/L	<3.0 U	<3.0 U	<1 U	<1.0 U			
Methyl tert-Butyl ether	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,1-Dichloroethylene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
trans-1,2-Dichloroethylene	ug/L	<2.0 U	<2.0 U	<0.5 U	<0.50 U			
cis-1,2-Dichloroethylene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Vinyl Chloride	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Tetrachloroethylene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Trichloroethylene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Tetrahydrofuran	ug/L	<3.0 U	<3.0 U	<1 U	<1.0 U			
Hexanone,2-	ug/L			<2 U	<2.0 U			
Bromomethane	ug/L	<3.0 U	<3.0 U	<1 U	<1.0 U			
Bromodichloromethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Chloromethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Chlorodibromomethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Methylene Dibromide	ug/L			<0.5 U	<0.50 U			
Methylene Chloride	ug/L	1.2 J	<5.0 U*	<2 U	<2.0 U			
Dichlorodifluoromethane	ug/L	<1.0 U	<1.0 U*	<0.5 U*	<0.50 U*			
Bromoform	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Chloroform	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Trichlorofluoromethane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Methyl Isobutyl ketone	ug/L	<2.0 U	<2.0 U	<2 U	<2.0 U			

Table B-3
SUMMARY OF TRIP BLANK ANALYTICAL DATA
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Loureiro Engineering Associates, Inc.

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK			
	Sample ID	1316376	1324118	1104643	1113234			
	Sample Date	03/11/2008	06/03/2008	09/08/2008	12/02/2008			
	Sample Time	14:35	10:00	10:30	09:00			
	Laboratory	STL-	STL-	STL-	STL-			
	Lab. Number	220-4404-9	220-5275-15	220-6459-22	220-7366-10			
Constituent	Units							
1,2,3-Trichloropropane	ug/L			<0.5 U	<0.50 U			
1,2-Dibromo-3-Chloropropane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,2-Dichloropropane	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
1,3-Dichloropropane	ug/L			<0.5 U	<0.50 U			
sec-Dichloropropane	ug/L			<0.5 U	<0.50 U			
1,1-Dichloropropene	ug/L			<0.5 U	<0.50 U			
trans-1,3-Dichloropropene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
cis-1,3-Dichloropropene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
Styrene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U*			
Toluene	ug/L	<1.0 U	<1.0 U	<0.5 U	<0.50 U			
o-Chlorotoluene	ug/L			<0.5 U	<0.50 U			
p-Chlorotoluene	ug/L			<0.5 U	<0.50 U			
o-Xylene	ug/L			<0.5 U	<0.50 U			
Xylenes, Total	ug/L	<2.0 U	<2.0 U					
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Table B-4
ASSESSMENT OF PERFORMANCE EVALUATION SAMPLES
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

VOC			
Compound	Method	Total Analyzed	% Correct
1,1,1-Trichloroethane	8260B	2	100%
1,1,2,2-Tetrachloroethane	8260B	2	50%
1,1,2-Trichloroethane	8260B	2	50%
1,2-Dibromo-3-Chloropropane	8260B	2	100%
1,2-Dichloroethane	8260B	2	50%
1,2-Dichloropropane	8260B	2	50%
Acetone	8260B	2	100%
Benzene	8260B	2	50%
Bromodichloromethane	8260B	2	100%
Bromoform	8260B	2	100%
Carbon Tetrachloride	8260B	2	100%
Chlorobenzene	8260B	2	100%
Chlorodibromomethane	8260B	2	100%
Chloroform	8260B	2	100%
Ethylbenzene	8260B	2	100%
Methyl Isobutyl ketone	8260B	2	50%
Methyl tert-Butyl ether	8260B	2	100%
Methylene Chloride	8260B	2	100%
Styrene	8260B	2	100%
Tetrachloroethylene	8260B	2	100%
Toluene	8260B	2	50%
Trichloroethylene	8260B	2	100%
Vinyl Chloride	8260B	2	100%
m-Dichlorobenzene	8260B	2	100%
o-Dichlorobenzene	8260B	2	100%
p-Dichlorobenzene	8260B	2	100%
OVERALL		**52**	**87%**
ETPH			
Compound	Method	Total Analyzed	% Correct
ETPH	CT ETPH	1	100%
OVERALL		**1**	**100%**
PCB			
Compound	Method	Total Analyzed	% Correct
PCB 1254	8082	1	100%
OVERALL		**1**	**100%**
METALS			
Compound	Method	Total Analyzed	% Correct
Arsenic	6010B	1	100%
Barium	6010B	1	100%

Table B-4
ASSESSMENT OF PERFORMANCE EVALUATION SAMPLES
2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Buildings: Pratt & Whitney, East Hartford, Connecticut

Cadmium	6010B	1	100%
Chromium, Total	6010B	1	100%
Copper	6010B	1	100%
Lead	6010B	1	100%
Nickel	6010B	1	100%
Selenium	6010B	1	100%
Silver	6010B	1	0%
Zinc	6010B	1	100%
OVERALL		**10**	**90%**
OVERALL EVALUATION OF PERFORMANCE EVLUATION SAMPLES:			**88% PASS**

ATTACHMENT B-1

LEA Standard Operating Procedures

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Liquid Sample Collection and Field Analysis

SOP ID: 10004
Date Initiated: 02/20/90
Revision No. 006: 12/31/01

Approved By: ***/s/ Joseph T. Trzaski*** ***12/31/01***
Joseph T. Trzaski **Date**
Senior Scientist

/s/ Nick D. Skoularikis ***12/31/01***
Nick D. Skoularikis **Date**
Director of Quality

REVISION RECORD

Rev #	Date	Additions/Deletions/Modifications
Initial Issue	2/20/90	
001-004	NR	No record.
005	01/15/99	No record.
006	12/31/01	Updated to conform to new SOP format. Minor revisions throughout.

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Liquid Sample Collection and Field Analysis

1. Purpose and Scope

This document describes procedures to be followed for measurement of static water level elevations, detection of immiscible layers, well evacuation, sample withdrawal, and field analyses.

2. Definitions

2.1. Immiscible layers: The term is used to denote free-phase liquids that may be present in the aquifer as a result of a release. These liquids may have a density lighter than water (light non-aqueous phase liquids (LNAPL) or floaters) or heavier than water (dense non-aqueous phase liquids (DNAPL) or sinkers).

3. Equipment

3.1. Equipment required for the collection and field analysis of liquid samples includes:

- Water-level indicator (accurate to 0.01 foot). The size of the instrument depends on the size of the wells being monitored.
- Distilled water.
- Hand towels.
- Portable volatile organic compound (VOC) analyzer (Photovac MicroTIP®, Foxboro OVA® or equivalent).
- Interface probe, clear polyvinyl chloride (PVC) or fluorocarbon resin bailer (if required).
- pH and temperature meter (capable of accuracy to 0.1 pH unit).
- Specific conductivity meter.
- Bailers (clean or disposable) with disposable nylon or polyethylene rope.

- Polyethylene plastic sheeting.
- Polyethylene tubing, and appropriate pumping apparatus such as centrifugal pump, Wattera® pump with fluorocarbon resin foot valve, peristaltic pump with appropriate tubing, submersible pump or other appropriate pumping apparatus.
- Clean disposable gloves.
- Field paperwork.
- Sample collection jars.
- Indelible marker.
- Cooler(s) with ice or ice packs.
- Site-specific Health and Safety Plan (as applicable).
- Site-specific work plan, work instructions, drawings (as applicable).
- Personal protective equipment (as may be required by Site Specific Health and Safety Plan).
- Aluminum foil (if field decontamination is expected).
- Appropriate containers for collection of purge water (bucket, carboy, 55-gallon drum etc.).

4. Procedures

Immediately upon opening the well, the air in the wellhead should be sampled for VOCs using a portable VOC analyzer, such as a Photovac MicroTIP®. The well cap shall be opened slightly and the sampling port of the VOC analyzer shall be inserted into the well. The maximum reading shall be recorded on the appropriate field paperwork. The instrument shall be zeroed with ambient air prior to the measurement, and the initial and final readings shall be recorded for each well.

Measures shall be taken during well sampling to prevent surface soils from coming in contact with the purging equipment and lines. Typically, a polyethylene sheet is placed on the ground providing adequate coverage for the equipment being used.

4.1. Detection of Immiscible Layers

4.1.1. If the presence of immiscible layers is suspected or unknown, the sampling event shall include provisions for detection of immiscible phases prior to well evacuation or sample collection. Lighter and/or

denser immiscible phases may be encountered in a groundwater monitoring well.

4.1.2. An interface probe will be used to determine the existence of any immiscible layers, light or dense. Alternatively, a clear fluorocarbon resin or PVC bailer may be used to determine the existence of the phases or oil sheen in the well when no accurate determination of the immiscible layer thickness is required. For Geoprobe® wells smaller than 1" in diameter, an interface probe cannot be introduced into the well. A small diameter disposable bailer can be used to determine the existence of any immiscible layers. Alternatively the initial water purged from a well will be collected and evaluated visually for the presence of immiscible layers.

4.1.3. If immiscible layers were encountered, the levels of the immiscible liquids shall be measured to an accuracy of 0.02 feet using an electronic interface probe capable of detecting the interfaces between air, product, and water. The interface levels shall be recorded in the field notebook. Adjustments of the observed head to the theoretical hydraulic head shall be calculated based on the density conversion factor associated with the particular non-aqueous phase liquid.

4.1.4. If required, the immiscible layers and groundwater shall then be purged into 55-gallon 17H DOT drum, which shall be labeled and characterized for disposal. The immiscible layer shall be collected prior to any purging activities.

4.2. Measurement of Static Water Level

4.2.1. The static water elevations in each well shall be measured prior to each sampling event. This is performed initially to characterize the site, and in subsequent sampling rounds to determine whether horizontal or vertical flow gradients have changed. A change in hydrologic conditions may necessitate modification of the groundwater monitoring program.

4.2.2. Remove the protective cover and locking cap.

4.2.3. Each well shall have a surveyed reference point located at the top of the well casing with the locking cap removed. The reference point shall be easily recognizable, since the personnel conducting the sampling may differ from one sampling event to the next. If no distinguishable reference point is present, the measurements shall be

taken from the highest point on the well casing. The absence of a reference point and subsequent reference point used for the measurements shall be recorded on the field paperwork.

4.2.4. The following parameters shall be measured with an accuracy of 0.01 ft:

- Depth to standing water.
- Depth to bottom of well.

4.2.5. A water-level indicator will be used for measurement. Due to possible pressure differences between the well atmosphere and the ambient atmosphere, the water level will be allowed to equilibrate for 15 minutes following removal of the well cap. The results shall be recorded in the appropriate location(s) on the appropriate field forms.

4.2.6. Total depth measurements will be compared to original depths to determine the degree of siltation that may have occurred. This information shall be noted on the field form. Should significant siltation occur in any well, the well may need to be redeveloped by an approved method. This information will also be used to confirm that the proper well is being sampled (in case of cluster wells).

4.2.7. The portion of the tape immersed in the well shall be decontaminated during retrieval using a distilled water rinse followed by drying with a clean wipe, prior to use in another well. This decontamination procedure shall be amended, as needed, to accommodate the specific type of contamination anticipated.

4.3. Field Analysis

4.3.1. Parameters that are physically or chemically unstable shall be measured immediately after collection using a field test meter or other equipment. Parameters such as pH, temperature, specific conductivity, and turbidity will be measured in the field, at the temperature of the well sample. The measurement of additional parameters may be required dependent upon sampling methods or other site-specific conditions.

4.3.2. A combination of pH/temperature/specific conductivity meters shall be used. The meter shall be calibrated prior to use and at the end of the day using calibration solutions, in accordance with the instructions provided in the instrument's operating manual. Whenever a

questionable reading ("spike") is observed the calibration shall be checked. The calibration shall be checked prior to sampling each well or well cluster. Calibration information to be recorded in the field paperwork shall include the temperature, pH, and conductivity readings in each calibration solution before and after each calibration.

The pH/temperature/conductivity meters shall be placed into a sample and allowed to stabilize for a minimum of twenty seconds. The accuracy of measurement shall be 0.1 standard units for pH, and 0.1E Celsius for temperature. For conductivity, the accuracy shall be as stipulated by the range of the instrument. The sample shall be discarded in an appropriate manner upon completion of the analysis.

4.3.3. The pH/temperature/specific conductivity meters shall be decontaminated using a distilled/deionized water rinse between each sample. To the extent possible, the same probe and meter shall be used for all measurements at a given site for the duration of monitoring at the site.

4.3.4. Turbidity of the sample will be measured using a DRT turbidimeter, Model 15C or equivalent, that has been calibrated in accordance with the instructions provided in the instrument's manual. The accuracy of the measurement shall be to 1 NTU (nephelometric turbidity unit).

4.4. Well Evacuation

4.4.1. Calculate standing water in the well based on the following schedule and record on the appropriate field form:

Well Diameter (inches)	Conversion Factor (gal/feet)
½	0.01
1	0.041
1 ¼	0.064
1 ½	0.091
2	0.163
4	0.654
6	1.47

4.4.2. Generally, a centrifugal, submersible, air-lift, bladder, inertial, or peristaltic pump equipped with a fluorocarbon resin or PVC foot valve on the end of dedicated tubing, as appropriate, may be used to evacuate the monitoring wells. Alternatively, evacuation of the wells may be accomplished using a bailer.

4.4.3. A new sheet of polyethylene plastic shall be placed on the ground adjacent to the well. Sampling and purging equipment, such as pump, tubing, bailers and bailer twine, containers, etc., shall be placed on the polyethylene sheet, never on the ground.

4.4.4. Don disposable gloves, prepare pump and tubing for insertion into the well, ensuring that any tubing or pump apparatus is of sufficient length to reach the appropriate depth for pumping. Pumping shall occur within the well screened interval as indicated on the well construction diagram. If the well construction information is not available, the bottom of the tubing or pump shall be placed 1' - 2' above the bottom of the well.

4.4.5. Lower the pump and/or tubing gently into the water column to the appropriate depth and begin pumping.

4.4.6. Measure pH, temperature, specific conductivity, turbidity and other specific parameters in the well from the first water extracted during the purging process.

4.4.7. Remove a volume of water equal to 3 to 5 times the standing water from the well measured into an appropriate container. Purging of the well shall occur at a slow rate to minimize agitation of the water recharging the well.

4.4.8. If it is not possible to remove three volumes as described above, due to slow recovery of the well, the well shall be emptied and allowed to recover. In slow-yielding wells, whenever full recovery exceeds two hours, the sample shall be extracted as soon as a sufficient volume is available for a sample for each parameter.

4.4.9. Measure pH, temperature, specific conductivity, turbidity and other specific parameters **prior** to sampling.

4.4.10. Well evacuation is deemed to be complete when the following criteria have been met:

- pH measurements vary no more than ± 0.5 standard units.
- Specific conductivity measurements vary no more than ± 10%.
- Temperature measurements vary no more than ± 1EC.
- Turbidity measurements (if used) are below 5 NTU, if practicable.

Alternatively well purging shall be deemed complete if a maximum of five well volumes have been removed from the well and/or other site-specific or method-specific parameters have stabilized.

4.4.11. Measure pH, temperature, specific conductivity and turbidity (and other specific parameters) again **after** sampling to determine the effectiveness of purging and sample stability.

4.4.12. Do **not** re-use purging equipment (bailers, rope, tubing, sampling vials, etc.). Any non-disposable bailers shall be returned to the office for decontamination. Pumps shall be decontaminated between monitoring wells, in accordance with procedures noted in Section 4.7.

4.4.13. Bailer twine and other consumables, such as filter apparatus, shall be disposed of appropriately.

4.4.14. Record sampler's name, sampling time, volume of water purged, parameters measured, weather conditions, sample number, analyses required and all other pertinent information on appropriate field forms, and complete the chain of custody form. The field paperwork shall also provide an indication of other field conditions that could potentially impact water levels (such as a pond being drained, or presence of a beaver dam in nearby surface water).

4.4.15. As dictated by project-specific requirements and/or groundwater quality considerations, any water purged from the monitoring wells shall be stored in properly labeled containers for disposal.

4.4.16. Storage shall be in properly labeled containers approved for storage of hazardous materials, and in an appropriate designated location at the site.

4.5. Sample Withdrawal

4.5.1. In order to ensure that the groundwater sample is representative of the formation, it is important to minimize physical alteration (i.e. agitation during purging and/or sample collection) or chemical contamination of the sample during the withdrawal process. The sample set shall include enough dedicated bailers and sample jars to obtain samples from each well, and additional quality assurance/quality control (QA/QC) samples such as duplicates, trip blanks and equipment blanks. In addition, it is recommended to increase the supply of

sampling equipment and sample jars by about 10% to account for missing or broken glassware.

4.5.2. Use either an appropriate pump or bailer to purge each well (the same pump used for purging may be used for sample withdrawal, with the exception that samples intended for VOC analysis must be collected using either a bailer or a bladder pump.). Do not reuse a bailer in the field; used non-disposable bailers shall be returned to the office for decontamination.

4.5.3. To minimize agitation of the water column, samples shall be collected from the pump tubing in the following order into pre-labeled sample containers:

- Extractable organics (semi-volatile).
- Total petroleum hydrocarbons (TPH).
- Poly chlorinated biphenyls (PCBs).
- Metals.
- Phenols.
- Cyanide.
- Chloride and sulfate.
- Nitrate and ammonia.
- Turbidity.
- Radionuclides.

Samples to be analyzed for the following constituents shall be collected using a bailer, after any pump and tubing have been removed from the well. Removal of any down hole equipment shall be done carefully and in a manner that minimizes disturbance of the water column.

- Volatile organic compounds (VOCs).
- Purgeable organic carbon (POCs).
- Purgeable organic halogens (POX).
- Total organic halogens (TOX).
- Total organic carbon (TOC).

4.5.4. Samples shall be obtained from the monitoring wells as soon as possible after purging. This may require waiting an extended period for low-yielding wells.

4.5.5. Samples collected for VOC analysis shall be free of any air bubbles and inverted upon filling. Bacterial samples shall be collected using dedicated gloves; taking care not to allow anything to touch the inside of the sampling container.

4.5.6. Samples collected for dissolved metals analysis, which are to be filtered in the field, shall be passed through a 0.45 micron (maximum) filter (either in-line or under negative pressure) prior to placement in the sample bottle.

4.5.7. In situations where replicate samples shall be required, care shall be taken to ensure that each sample collected is independent.

4.5.8. In some situations, inorganic parameters may be sampled directly from a pump after completion of well evacuation procedures.

4.6. Post Sampling Procedures

4.6.1. As required, upon completion of all sampling procedures for a particular site, secure the lid of the cooler using packaging tape with the chain of custody inside.

4.6.2. If the laboratory is local, transport the samples directly to the laboratory and present them to the sample manager. The representative of LEA should witness the verification of the chain of custody and obtain a carbon copy for filing in the project notebook.

4.6.3. If the laboratory is distant, arrange for transport with a reputable carrier service. Typically, the laboratory specifies the carrier to be used and provides the shipping papers. The cooler and samples shall be secured for transport, and all mailing documentation secured onto the top of the cooler. Unless otherwise specified, delivery shall be overnight. Friday shipments should be mailed for Saturday delivery, once confirmed that the laboratory can accept them on Saturday. The laboratory shall provide confirmation of acceptance noting the temperature of the temperature blank and any deviations from the chain of custody.

4.7. Field Documentation

4.7.1. Field documentation shall include at a minimum: a chain-of-custody form, Field Data Record Groundwater Form, Sample Collection Form, Daily Field Report, Field Quality Review Checklist. Sample labels shall be used for proper sample identification.

4.7.1.1. The labels shall be sufficiently durable to withstand immersion for 48 hours without detaching and to withstand normal handling. The information provided shall be legible at all times.

4.7.1.2. The following information shall be provided on the sample label using an indelible-ink pen:

- Sample identification number.
- LEA Commission Number.
- Date and time of collection.
- Place of collection.
- Parameter(s) requested (if space permits).

4.7.1.3. A field logbook and/or appropriate field forms will be used to log all pertinent information with an indelible-ink pen. The following information shall be provided:

- Project and site identification.
- LEA commission number.
- Identification of well.
- Static water level measurement technique.
- Presence of immiscible layers and detection method.
- Time well purged.
- Collection method for immiscible layers and sample identification numbers.
- Well evacuation procedure/equipment.
- Sample withdrawal procedure/equipment.
- Date and time of collection.

- Types of sample containers used and sample identification numbers.
- Preservative(s) used.
- Parameters requested for analysis.
- Field analysis method(s).
- Whether or not field filtration was performed and the filter size, if appropriate.
- Field observations on day of sampling event.
- Record of site activities.
- Field personnel.
- Climatic conditions, including air temperature.
- Status of total production.
- Record of non-productive time.
- Name of all visitors to the site related to the project.

4.7.1.4. The chain-of-custody record shall include the following information:

- Company's name and location.
- Date and time of collection.
- Sample number.
- Container type, number, size.
- Preservative used.
- Signature of collector.
- Signatures of persons involved in the chain of possession.
- Analyses to be performed.
- Type and number of samples.

A separate entry shall be made for each sample, and within each sample each case that a different preservative is used.

4.7.1.5. The Field Data Record Groundwater Form shall be updated during the sampling of each well and include the following information:

- Identification of well.
- Well depth, diameter, depth to water.
- Static water level depth and measurement technique.
- Purge volume and pumping rate.
- Time well purged.
- LEA commission number.
- Date.

4.8. Equipment Decontamination

All materials and equipment, which enter a well, must be clean and free of any potential contaminants. In general, the equipment and materials entering the well shall be unused and preferably disposable. Any items not considered disposable should be decontaminated prior to commencing field activities. If field decontamination is required, the choice of decontamination procedures shall be based upon knowledge of the site-specific contaminants and as outlined in the site-specific work plan.

For sites at which the contaminants are unknown, but contamination is suspected, the decontamination procedures outlined below shall be followed.

4.8.1. Prior to commencing any field activities, the following solutions (as appropriate for the appropriate contaminants) shall be prepared and placed into 500-ml laboratory squirt bottles: 10% methanol in water; 10% nitric acid in water; 100% n-hexane; distilled, de-ionized water.

4.8.2. In the field, prepare approximately 2.5 gallons of a solution of Alconox® (or other suitable non-phosphate laboratory grade detergent) in tap water in a 5-gallon bucket.

4.8.3. Prepare a piece of 5-mil polyethylene sheeting to underlie the decontamination area. The sheeting shall be of sufficient size to contain any accidental discharge of decontamination solutions. The plastic shall be bermed to contain spills.

4.8.4. The order for decontaminating equipment is as follows:

1) Detergent scrub.
2) DI water rinse.
3) Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
4) DI water rinse.
5) 10% nitric acid rinse (to be used only when metals are suspected as potential contaminants).
6) DI water rinse.
7) Methanol rinse (<10% solution).
8) Air dry.

4.8.5. Materials considered disposable such as the bailer cord, pump tubing, filters, etc. shall not be decontaminated and shall be disposed of in accordance with all applicable municipal, state, and federal regulations.

4.8.6. Wrap each piece of decontaminated equipment in aluminum foil, as appropriate, to maintain cleanliness.

4.8.7. At the end of the project day, dispose of all spent decontamination fluids and materials such as the polyethylene sheeting and personal protective equipment in accordance with all applicable municipal, state, and federal regulations.

5. Quality Assurance/Quality Control

Typically samples taken for Quality Assurance/Quality Control for liquid sample collection include duplicate samples, equipment blanks and trip blanks. The necessity for these samples will be outlined in the site-specific work plan. In general, all QA/QC measures taken during liquid sample collection shall be in conformance with LEA's standard operating procedure (SOP) ID 10005. Standard QA/QC measure shall include the recording of pertinent information as follows:

5.1. The Field Instrument & Quality Assurance Record, which is a portion of the Daily Field Report, shall include the following information:

- Instrument make, model, and type.
- Calibration readings.
- Calibration/filtration lot numbers.
- Field personnel and signature.

5.2. The Field Quality Review Checklist, which is a portion of the Daily Field Report, shall assure the completeness of the sampling round and include the following information:

- Reviewer's name and date.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

6. References

6.1. EPA, *RCRA Groundwater Monitoring Technical Enforcement Guidance Document*, OSWER 9950.1, September 1986.

6.2. EPA, *Practical Guide for Groundwater Sampling*, EPA/600/2-85/104, September 1985.

6.3. DEP, Site Characterization Guidance Document, Draft, June 12, 2000.

END OF DOCUMENT

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Quality Assurance/Quality Control Measures
for
Field Activities

SOP ID: 10005
Date Initiated: 02/20/90
Revision No. 004: 12/31/01

Approved By: ***/s/ Jeffrey J. Loureiro*** ***12/19/01***
Jeffrey J. Loureiro **Date**
President

/s/ Nick D. Skoularikis ***12/19/01***
Nick D. Skoularikis **Date**
Director of Quality

REVISION RECORD

Rev #	Date	Additions/Deletions/Modifications
Initial Issue	02/20/90	
001-003	-	No record.
004	12/31/01	Updated to reflect new SOP format. Added section 4.3, Results Evaluation. Minor revisions throughout.

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Quality Assurance/Quality Control Measures
for
Field Activities

1. Statement of Purpose

This document describes procedures to be followed for proper Quality Assurance Quality Control (QA/QC) practices which shall incorporate all activities associated with sampling tool and instrument preparation, field measurements and sampling, proper documentation of field and post-field activities, QC sample preparation, chain-of-custody protocol and laboratory analytical procedures. The use of specific QA/QC measures is project-specific as defined in the project work plan. This standard operating procedure (SOP) was adopted in accordance with the Environmental Protection Agency (EPA) document *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846).

2. Definitions

2.1. Trip Blank: An aliquot of organic-free water or equivalent neutral reference material carried into the field but not exposed.

2.2. Equipment Blank: An aliquot of analyte-free deionized water processed through all sample collection equipment.

2.3. Replicate Samples: Samples that have been divided into two or more portions in the field.

2.4. Collocated Samples: Independent samples collected under identical circumstances in a way that they are equally representative of the parameter of interest.

2.5. Performance Evaluation (PE) Sample: A sample that mimics actual samples in all possible aspects, except that its composition is known to the auditor and unknown to the analyst.

3. Equipment

None

4. Procedure

4.1. General

4.1.1. All QA/QC sample preparation procedures shall be properly documented including:

- Name of person(s) or laboratory involved in sample preparation.
- Reagents used.
- Sample number.
- Analyses required.
- Concentration calculations.
- Accuracy of measurements.
- Number, type, size of containers used.
- Preservation method.
- Date and time of sample preparation.

4.1.2. All information shall be included in the field logbook and/or appropriate field forms, but not necessarily in the chain-of-custody record except as needed for proper sample identification and analysis. Blind sample numbers are being used in order not to disclose the nature of the sample to the laboratory. No information that would identify the sample as a QA/QC sample shall be included in the chain-of-custody record.

4.1.3. At the conclusion of each sampling day, a quality control review shall be conducted using the Field Quality Review Checklist and the Daily Field Report.

4.2. QC Sample Preparation

4.2.1. Trip Blank

4.2.1.1. Contaminated trip blanks may indicate contamination of the samples during the field trip or shipment to the lab, cross-contamination between the samples, contaminated sample vials, or improper handling.

4.2.1.2. Trip blanks shall be used only with samples that are to be analyzed for volatile organic compounds.

4.2.1.3. One trip blank shall be included per shipping container (cooler) carrying sample soil and/or groundwater samples that are to be analyzed for volatile organic compounds

4.2.1.4. Trip blanks are prepared using analyte-free deionized organic-free water prior to field activities associated with the sampling event, usually by the laboratory providing the sampling containers. Each trip blank is placed in a 40-ml glass VOA vial and is carried in the same shipping container as the sample(s). Trip blanks should not be opened at any time during transport.

4.2.2. Equipment Blank

4.2.2.1. The purpose of an equipment/rinsate blank is to determine if decontamination procedures were adequate or if any of the equipment might contribute contaminants to the sample.

4.2.2.2. An equipment blank is prepared by running analyte-free deionized water through all sample collection equipment (bailers, pumps, filters, split-spoon) and placing it in the appropriate sample containers for analysis. If equipment has been decontaminated in the field, the equipment blank shall be collected after decontamination procedures have been performed.

4.2.2.3. Equipment blanks shall be used when sampling surface water, groundwater, soil, and sediment.

4.2.2.4. One equipment blank shall be collected for each sample bottle/preservation technique/analysis procedure per matrix per sampling event, or as otherwise specified in project-specific documents.

4.2.3. Replicate Samples

4.2.3.1. Replicate samples provide precision information on handling, shipping, storage, preparation and laboratory analysis.

4.2.3.2. Replicate samples are samples that have been divided into two or more portions in the field. An example of a replicate sample is two identical sample bottles filled with water from the same bailer retrieval. To ensure homogeneity, the bailer should be emptied into a clean, decontaminated beaker used exclusively

for the purpose and containing sufficient volume for both sample containers, and from that into the sample containers.

4.2.3.3. Replicate samples cannot be used when sampling for volatile organic compounds.

4.2.3.4. One replicate sample shall be obtained for each sample bottle/preservation technique/analysis procedure per sampling event or one out of every 20 samples, unless collocated samples are used (see below), or as otherwise specified in project-specific documents.

4.2.4. Collocated Samples

4.2.4.1. Collocated samples provide precision information on sample acquisition, homogeneity, handling, shipping, storage, preparation and laboratory analysis.

4.2.4.2. Collocated samples are independent samples collected in such a way so that presumably they are equally representative of the parameter of interest. Examples of collocated samples are groundwater samples collected sequentially, soil core samples collected side-by-side, or air samples collected essentially at the same time from the same manifold.

4.2.4.3. Collocated samples are especially useful when sampling for volatile organic compounds, for which replicate samples cannot be used.

4.2.4.4. Collocated samples shall be obtained for each sample bottle/preservation technique/analysis procedure per sampling event or one out of every 20 samples, unless replicate samples are used (see above), or as otherwise specified in project-specific documents.

4.2.5. Split Samples

4.2.5.1. The purpose of split samples is to provide an assessment of the laboratory analytical procedure.

4.2.5.2. Split samples are collocated or replicate samples sent to two (or more) different laboratories.

4.2.5.3. Split samples can be used with any sample media. Split samples can be used in conjunction with spiked samples (see

below). In case contradictory results are obtained from the samples split between different laboratories, the spiked samples can be used to verify the analytical data (provided that the spiked samples were properly prepared and the appropriate documentation is available).

4.2.5.4. When used, one split/spiked sample per sample bottle/preservation technique/analysis procedure per sampling event or every 20 samples shall be included, or as specified in project-specific documents.

4.2.6. Spiked Samples

4.2.6.1. The purpose of spiked samples is to provide information on the precision of the laboratory analytical procedure. However, besides a wrong preparation, several other sources of error exist such as analyte stability, holding time and interactions with the sample matrix.

4.2.6.2. Spiked samples are samples spiked with the contaminants of interest. The compounds used for spiking should be of the same chemical group as the contaminants being investigated, but they do not have to be the exact chemical compounds. Spiking should be carefully designed and performed prior to the field investigations. Field matrix spikes are not generally recommended because of the high level of technical expertise required for proper preparation and documentation.

4.2.6.3. Can be used with any sample media, however, liquid matrices are preferred due to uniformity of mixing.

4.2.6.4. When used, one split/spiked sample per sample bottle/preservation technique/analysis procedure per sampling event or every 20 samples shall be included, or as otherwise specified in project-specific documents. In order to ensure defensible data, performance evaluation (PE) samples, prepared by an independent vendor, are typically being used. The ordering and handling procedures and record keeping requirements are discussed in Loureiro Engineering Associates, Inc. (LEA's) *SOP for Preparation of PE Samples* (SOP 10030).

4.3. Result Evaluation

4.3.1. The analytical results on QA/QC samples should be evaluated along with the remaining analytical data as follows:

4.3.1.1. No constituents should be detected in the trip blank or equipment blank.

4.3.1.2. The relative percent differences (RPDs) shall be computed for all constituents detected in both duplicate samples used.

The RPD between two measurements (e.g., M1 and M2) is calculated as follows:

$$RPD = \frac{|M1 - M2|}{(M1 + M2)/2} \times 100\%$$

4.3.1.3. Any deviations in the performance evaluation samples shall be brought to the attention of the laboratory. An investigation shall then be performed by the laboratory of the method used, laboratory QA/QC procedures followed, and computations performed. The laboratory shall report the results of their investigation and any corrective actions taken.

5. References

5.1. EPA, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846).

END OF DOCUMENT

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Low Flow (Low Stress)
Liquid Sample Collection and Field Analysis

SOP ID: 10039
Date Initiated: 06/11/01
Revision No. 003: 04/01/05

Approved By: ***/s/ David C. Brisson*** ***04/01/05***
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REVISION RECORD

Rev #	Date	Additions/Deletions/Modifications
Initial Issue	06/11/01	
001	04/01/02	Updated to reflect new SOP format.
002	12/02/02	Updated to reflect stabilization procedures.
003	04/01/05	Incorporated modified low-flow sampling procedure to include the use of a peristaltic pump.

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
For
Low Flow (Low Stress)
Liquid Sample Collection and Field Analysis

1. Purpose and Scope

This standard operating procedure (SOP) describes the procedures to be followed for measurement of static water level elevations, detection of immiscible layers, well evacuation, sample withdrawal, and field analyses utilizing low flow sampling techniques.

2. Definitions

2.1. Immiscible layers: The term is used to denote free-phase liquids that may be present in the aquifer as a result of a release. These liquids may have a density lighter than water (light non-aqueous phase liquids (LNAPL) or floaters) or heavier than water (dense non-aqueous phase liquids (DNAPL) or sinkers).

3. Equipment

3.1. Equipment required for the collection and field analysis of liquid samples shall include:

- Water-level indicator (accurate to 0.01 foot).
- Distilled water.
- Hand towels.
- Portable volatile organic compound (VOC) analyzer (Photovac MicroTIP®, Foxboro OVA® or equivalent).
- Interface probe/clear view bailer (to check for light non-aqueous phase liquids only).
- Flow-through cell capable of monitoring pH, temperature, specific-conductance, oxidation reduction potential (Eh), dissolved oxygen (DO), and turbidity.
- Polyethylene plastic sheeting.

- Adjustable rate submersible pump (preferred), adjustable rate centrifugal pump, bladder pump (constructed of stainless steel or Teflon®), or adjustable rate peristaltic pump
- Appropriate tubing for the pump used, for instance polyethylene tubing (1/4 to 3/8 inch outer diameter (O.D.)) for the peristaltic pump
- Clean disposable gloves.
- Alconox®, or other non-phosphate laboratory grade detergent.
- Three 5-gallon buckets.
- Decontamination brushes.
- Distilled, de-ionized (DI) water.
- Decontamination fluids (less than 10 percent methanol in water, 100 percent n-hexane, and 10 percent nitric acid).

4. Procedure

4.1. Health & Safety Requirements

All health and safety requirements described in the site specific Health & Safety Plan and/or Job Hazard analysis shall be observed

4.2. Equipment Decontamination

All materials and equipment that enter a well must be clean and free of any potential contaminants. Do not use any contaminated equipment or materials which are not designed to be used for groundwater monitoring, even if this means that the sampling will not be performed as planned.

In general, the choice of decontamination procedures should be based upon knowledge of the site-specific contaminants and outlined in the site-specific work plan.

For sites at which the contaminants are unknown, but contamination is suspected, the decontamination procedures outlined below should be followed.

4.2.1. Prior to commencing any field activities, the following solutions (as appropriate for the appropriate contaminants) should be prepared and placed into 500-ml laboratory squirt bottles: less than 10 percent

methanol in water; 10 percent nitric acid in water; 100 percent n-hexane; distilled, de-ionized water.

4.2.2. In the field, prepare approximately 2.5 gallons of a solution of Alconox® (or other suitable non-phosphate laboratory grade detergent) in tap water in a 5-gallon bucket.

4.2.3. Prepare a piece of 5-mil polyethylene sheeting to underlie the decontamination area. The sheeting should be of sufficient size to contain any accidental discharge of decontamination solutions. The plastic should be bermed to contain spills.

4.2.4. The order for decontaminating equipment is as follows:

1) Detergent scrub.
2) DI water rinse.
3) Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
4) DI water rinse.
5) 10 percent nitric acid rinse (to be used only when metals are suspected as potential contaminants).
6) DI water rinse.
7) Methanol rinse (less than 10 percent solution).
8) Air dry.

4.2.5. Materials such as the bailer cord should not be decontaminated and should just be disposed of after each test. Note: Bailers should be used **only** to check for LNAPL before sample collection using low-flow/low stress procedures. A bailer may be used to check for DNAPL only **after** all sample collection equipment has been removed from the well.

4.2.6. Wrap each piece of decontaminated equipment in aluminum foil, as appropriate, to maintain cleanliness.

4.2.7. At the end of the project day, dispose of all spent decontamination fluids and materials such as the polyethylene sheeting and personal protective equipment in accordance with all applicable municipal, state, and federal regulations.

4.3. Sample Collection

4.3.1. Immediately upon opening the well, the air in the well head will be sampled for VOCs using a portable VOC analyzer, such as a Photovac

MicroTIP® or equivalent. The instrument shall be zeroed with ambient air prior to the measurement, and the highest reading observed shall be recorded for each well. Measurements should be taken until stabilization of the readings has occurred.

4.4. Detection of Immiscible Layers

4.4.1. Should evidence warrant, a sampling event shall include provisions for the detection of immiscible phases prior to well evacuation or sample collection. LNAPLs are relatively insoluble liquid organic compounds with densities less than that of water (1 g/ml), while DNAPLs are organic compounds with densities greater than that of water. Lighter and/or denser immiscible phases may be encountered in a groundwater monitoring well.

4.4.2. An interface probe will be used to determine the existence of any immiscible layers, light or dense. Alternatively, a clear fluorocarbon resin or PVC bailer may be used to determine the existence of the phases or oil sheen in the well when no accurate determination of the immiscible layer thickness is required. As noted above, efforts to detect LNAPL only can be performed prior to sample collection. Efforts to detect DNAPL can be performed only AFTER sample collection has occurred.

4.4.3. Should elevations of the immiscible layers be required, levels of the fluids shall be measured to an accuracy of 0.01 feet using an electronic interface probe capable of detecting the interfaces between air, product, and water. The interface levels shall be recorded in the field form. Adjustments of the observed head to the theoretical hydraulic head shall be calculated based on the density conversion factor associated with the particular non-aqueous phase liquid.

4.4.4. If LNAPL is detected in a well, collection of a groundwater sample from that well is not recommended unless otherwise specified in the site-specific work plan or work instruction. However, if a groundwater sample must be collected from that well, low-flow sampling is the recommended technique, although care must be taken to minimize mobilization of the LNAPL into the zone from which the sample will be collected.

4.5. Measurement of Static Water Level

4.5.1. The static water elevations in each well shall be measured prior to each sampling event. This is performed initially to characterize the site, and in subsequent sampling rounds to determine whether horizontal or vertical flow gradients have changed. A change in hydrologic conditions may necessitate modification of the groundwater monitoring program.

4.5.2. Remove the protective cover and locking cap from the well.

4.5.3. Each well shall have a surveyed reference point located at the top of the well casing with the locking cap removed. The reference point shall be easily recognizable, since the personnel conducting the sampling may differ from one sampling event to the next.

4.5.4. The following parameters shall be measured with an accuracy of 0.01 ft:

- Depth to standing water.
- Depth to bottom of well.

4.5.5. A water-level indicator with a fiberglass tape will be used for measurement. As a result of possible pressure differences between the well atmosphere and the ambient atmosphere, the water level will be allowed fifteen minutes to equilibrate upon removal of the well cap. If excess pressure is encountered the water level will be allowed greater than fifteen minutes to equilibrate upon removal of the well cap. The results shall be recorded on the appropriate field form(s).

4.5.6. Total depth measurements will be compared to original depths to determine the degree of siltation that may have occurred. This information shall be noted on the field forms. Should significant siltation occur in any well, the well shall be redeveloped by an approved method.

4.5.7. The portion of the tape immersed in the well shall be decontaminated during retrieval using a distilled water rinse followed by drying with a clean wipe, prior to use in another well. This decontamination procedure shall be amended, as needed, to accommodate the specific type of contamination anticipated.

4.5.8. The static water level should be monitored and recorded throughout the purging and sampling of each well.

4.6. Field Analysis

4.6.1. Parameters that are physically or chemically unstable shall be tested utilizing a flow-through cell. Such parameters as pH, temperature, specific conductance, DO, Eh, and turbidity will be measured in the field at the temperature of the well sample.

4.6.2. Parameters such as pH, temperature, specific conductance, DO, and Eh shall be measured using a flow-through-cell (YSI model 6820 or equivalent). The meter shall be calibrated prior to use and at the end of the day using supplied solutions in accordance with the instructions provided by the manufacturer. Calibration information will be recorded in the field before and after each calibration.

4.5.3 Turbidity can be measured with a separate turbidimeter, although some flow-through cells include a turbidimeter. It is useful to have a separate turbidimeter on hand to check the validity of the turbidity values obtained using the flow-through cell if there is difficulty reaching low turbidity values or if the turbidity readings recorded do not seem to be consistent with visual observation of the water samples. All samples, including turbidity samples and samples to be submitted for analysis, must be collected before the groundwater passes through the flow-through cell to prevent cross-contamination by potentially stagnant fluid within the flow-through cell. This can be accomplished by using a bypass assembly or disconnecting the tubing from the flow-cell inlet prior to sampling.

4.7. Well Evacuation

4.7.1. Calculate standing water in the well based on the following schedule and record on the appropriate field form:

Well Diameter (inches)	Conversion Factor (gal/feet)
2	0.163
4	0.654
6	1.47

4.7.2. Generally, a submersible, air-lift, bladder, or peristaltic pump equipped with appropriate tubing of inert materials (such as polyethylene), shall be used to evacuate the monitoring wells.

4.7.3. A new piece of polyethylene plastic shall be placed on the ground adjacent to the well. Sampling and purging equipment such as the pump, tubing, containers, etc., shall be placed on the polyethylene sheet, never on the ground.

4.7.4. The pumps and tubing shall be prepared for insertion into the well while wearing disposable gloves. Make sure that any tubing or pump apparatus is of sufficient length to reach the appropriate depth for pumping.

4.7.5. Lower the pump and/or tubing gently into the water column to the midpoint of the saturated portion of the screened interval, unless otherwise specified. A site-specific sampling plan should specify the sampling depth, or provide specific criteria for the selection of intake depth for each well. If possible keep the pump intake two feet above the bottom of the well. Start the pump at the lowest speed setting and slowly increase the speed until discharge occurs. The initial pumping rate shall be approximately 0.1 liters per minute, however, the pumping rate shall not exceed 0.25 liters per minute. Measure the water level to ensure that drawdown in excess of 0.3 feet does not occur in the well. Adjust the pumping rate as necessary until little or no drawdown occurs. If the drawdown exceeds 0.3 feet, reduce pumping rate if possible. If drawdown still does not stabilize at a depth above the pump intake, shut the pump down and allow the well to recharge. It should be noted that stable drawdowns of 0.3 feet are desirable but not mandatory. Stabilization of the drawdown to a depth greater than 0.3 feet is acceptable as long as the depth at which stabilization occurs is above the pump intake. However, it is important that the stabilization depth is clearly recorded and maintained.

4.7.6. Monitor and record the water level and pumping rate at a minimum of every five minutes during purging. Calculate the volume of the discharge tubing, bladder pump (if used), and the flow-through cell. Monitor and record indicator field parameters (turbidity, pH, Eh, DO, temperature and specific conductance) in the well from the first water extracted during the purging process and at least every five minutes thereafter. Stabilization is considered to be achieved when three consecutive readings are within the following limits and no increasing or decreasing trend in the data can be observed:

- Turbidity (10% for values less than 5 and greater than 1 NTU). It should be noted that achievements of turbidity levels less than 5 NTUs are not mandatory but efforts should be made to collect a groundwater samples with the lowest turbidity achievable.
- DO (10%, measured as milligrams per liter).
- Specific Conductance and Temperature (3%).
- pH (+/- 0.1 unit).
- ORP/Eh (+/- 10 millivolts).

4.7.7. If after 2.5 hours of purging or the purging of three well volumes, (whichever comes first) the field parameters have not stabilized, purging may be discontinued to allow sample collection. Similarly, if it is not possible to obtain stabilization as described above as a result of slow recovery of the well, the well shall be evacuated and allowed to recover, at which point the samples should be collected immediately. The appropriate sampling forms shall include a notation that sample collection occurred without stabilization. Samples obtained from slow-yielding wells shall be collected as soon as a sufficient volume is available for a sample for each parameter.

4.7.8. Do **not** re-use purging equipment. Pumps shall be decontaminated between monitoring wells, in accordance with procedures noted in Section 4.1.

4.7.9. Record sampler's name, sampling time, volume of water purged, parameters measured, weather conditions, sample number, analyses required and all other pertinent information in the field notebook and/or appropriate field forms, and complete the chain of custody form.

4.7.10. Any water purged from the monitoring wells shall be stored in appropriate containers until the laboratory analyses are available. Then it should be disposed of in accordance with all applicable local, state and federal requirements.

4.7.11. Storage shall be in containers approved for storage of hazardous materials, and in an appropriate designated location at the facility.

4.8. Sample Withdrawal

4.8.1. In order to ensure that the groundwater sample is representative of the formation, it is important to minimize physical alteration (i.e. agitation during purging and/or sample collection) or chemical contamination of the sample during the withdrawal process.

4.8.2. Use an appropriate pump to purge each well; the same pump used for purging shall be used for sample withdrawal.

4.8.3. The samples shall be collected at a location before entering the flow-through cell. To minimize the effects of water column agitation on sample quality, samples shall be collected from the pump tubing in the following order into pre-labeled sample containers:

- VOCs.
- Total petroleum hydrocarbons.
- Extractable organics (semivolatiles).
- PCBs.
- Metals.
- Phenols.
- Cyanide.
- Chloride and sulfate.
- Nitrate and ammonia.
- Turbidity.
- Radionuclides.
- Purgeable organic carbon (POCs).
- Purgeable organic halogens (POX).
- Total organic halogens (TOX).
- Total organic carbon (TOC).

4.8.4. Samples shall be obtained from the monitoring wells as soon as possible after purging. This may require waiting an extended period for low-yielding wells.

4.8.5. Samples collected for VOC analysis shall be free of any air bubbles and inverted upon filling. Bacterial samples shall be collected using dedicated gloves; taking care not to allow anything to touch the inside of the sampling container.

4.8.6. Samples collected for metals analysis, which are to be filtered in the field, shall be passed through an appropriately sized filter prior to placement in the sample bottle. Pre-rinse the filter with approximately 25 to 50 milliliters of groundwater prior to collecting the filtered metals sample. Filter sizes will generally be either 0.45 microns for dissolved metals and 10 microns for metals that could be present as colloids or adsorbed onto colloids that could be mobile in the aquifer. The appropriate filter size for the individual project must be provided in site-specific work instructions.

4.9. "What If" Scenarios

4.9.1. Certain field conditions may be encountered that influence the choice of equipment to be used or altogether limit the feasibility of low-flow sampling techniques. The following is a brief description of select scenarios to provide field personnel with a guideline if similar circumstances are encountered

4.9.2. Turbidity

4.9.2.1. If turbidity measurements do not stabilize as described above after 2.5 hours of purging or the evacuation of three well volumes, whichever comes first, sample collection can be initiated. Record observations of the color, clarity, and other observable characteristics of the groundwater (such as the presence or absence of particles) in the field paperwork

4.9.2.2. If samples are being collected for analysis for total (unfiltered) metals and the turbidity has not stabilized below 10 NTU, a sample for additional analysis for metals should also be collected after being filtered in the field through an in-line 10-micron filter, if specified in the work instructions.

4.9.3. Peristaltic Pump

4.9.3.1. Difficulty may be encountered while advancing the flexible polyethylene peristaltic pump tubing to the desired depth within a deep well or older well. Excessive friction may result from the tubing contacting the sidewall of the well casing or accumulations of material on the well casing (i.e. mineral and bacterial deposits). In these scenarios, the tubing may coil within the well during advancement and prevent the desired depth from being attained. Efforts to weight the tubing should be attempted before using alternate pumping techniques.

4.9.3.2. If such well conditions are expected, a bladder pump or similarly submersible pump should be used instead of a peristaltic pump. A bladder pump provides sufficient mass on the tubing to allow for advancement in deep or older wells.

4.9.3.3. A peristaltic pump cannot be used to sample wells in which the depth to water is greater than approximately 25 feet.

4.9.4. Sampling Depth

4.9.4.1. If conditions exist that prevent the appropriate pump or tubing from being advanced to the midpoint of the saturated portion of the screened interval, low-flow sampling techniques shall not be used. Instead, sampling shall be conducted using conventional purging and sampling techniques, as described in LEA SOP 10004 entitled *Liquid Sample Collection and Field Analysis*. Justification for not using low-flow sampling techniques must be provided in the field paperwork.

4.10. Field Documentation

4.10.1. Field documentation shall include at a minimum: a chain-of-custody form, Field Data Record Groundwater Form, Sample Collection Form, Daily Field Report. Sample labels and sample seals shall be used for proper sample identification.

4.10.1.1. The labels shall be sufficiently durable to withstand immersion for 48 hours without detaching and to withstand normal handling. The information provided shall be legible at all times.

4.10.1.2. The following information shall be provided on the sample label using an indelible pen:

- Sample identification number.
- Date and time of collection.
- Place of collection.
- Parameter(s) requested (if space permits).

4.10.1.3. Appropriate field forms will be used to log all pertinent information with an indelible pen. The following information shall be provided:

- Project and site identification.
- LEA commission number.
- Identification of well.
- Static water level measurement technique.
- Presence of immiscible layers and detection method.
- Time well purged.
- Collection method for immiscible layers and sample identification numbers.
- Well evacuation procedure/equipment.
- Sample withdrawal procedure/equipment.
- Date and time of collection.
- Types of sample containers used and sample identification numbers.
- Preservative(s) used.
- Parameters requested for analysis.
- Field analysis method(s).
- Whether or not field filtration was performed and the filter size, if appropriate.
- Field observations on day of sampling event.
- Record of site activities.
- Field personnel.

- Climatic conditions, including air temperature.
- Status of total production.
- Record of non-productive time.

4.10.1.4. The Field Sampling Record shall include at a minimum the following information:

- Identification of well.
- Date and time of collection.
- Name of collector.
- Sample number.

4.10.1.5. The chain-of-custody record shall include the following information:

- Company's name and location.
- Date and time of collection.
- Sample number.
- Container type, number, size.
- Preservative used.
- Signature of collector.
- Signatures of persons involved in the chain of possession.
- Analyses to be performed.
- Type and number of samples.

4.10.1.6. The Field Data Record Groundwater Form shall be updated during the sampling of each well and include the following information:

- Identification of well.
- Well depth, diameter, depth to water.
- Static water level depth and measurement technique.
- Purge volume and pumping rate.
- Time well is purged.

- Measurements of initial field parameters and all subsequent readings.
- Any specific circumstances, as described above, such as field filtering, lack of stabilization of parameters, water characteristics, etc.
- LEA commission number.
- Date.

4.10.1.7. The Daily Field Record shall include the following information:

- Client's name, location, LEA commission number, date.
- Instrument make, model, and type.
- Calibration readings.
- Calibration/filtration lot numbers.
- Field personnel and signature.

4.10.1.8. The Daily Field Record shall assure the completeness of the sampling round and include the following information:

- Reviewer's name, date, and LEA commission number.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

5. References

5.1. United States Environmental Protection Agency (EPA), Region I. *Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells,* July 30, 1996, Revision 2.

5.2. EPA. *Groundwater Sampling Guidelines for Superfund and RCRA Project Managers – Groundwater Forum Issue Paper,* Office of Solid Waste and Emergency Response, (EPA 542-S-02-001), May 2002.

5.3. Robert W. Puls and Michael Barcelona, EPA. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures,* in Groundwater Issue, (EPA/540/S-95/504), April 1996.

5.4. Connecticut Department of Environmental Protection, Bureau of Water Management, Permitting Enforcement and Remediation Division. *Site Characterization Guidance Document,* Draft, June 12, 2000.

END OF DOCUMENT

ATTACHMENT B-2

Performance Evaluation Sample Results

ENVIRONMENTAL
RESOURCE ASSOCIATES®
The Industry Standard™

March 14, 2008

Rick Brainerd
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Dear Rick:

Enclosed please find the certification documentation for the whole volume performance evaluation samples that you recently ordered. The samples were shipped on March 10, 2008 via UPS Red Overnight service to your attention. The ERA project number corresponding to these samples is 0310-08-01.

Thank you for choosing ERA for this project. If you have any questions or if we can be of any further assistance, please do not hesitate to call me.

Sincerely,

Heidi M. Senft

Heidi M. Senft
Chemist

enclosures
hms

6000 West 54th Ave., Arvada, CO 80002 800-372-0122 fax (303) 421-0159 www.eraqc.com

ENVIRONMENTAL RESOURCE ASSOCIATES®
The Industry Standard™

DataPacK™

Lot No. P155-710

Loureiro Engineering Assoc.
ERA Sample ID # 0310-08-01.1

PriorityPollutnT™ Volatiles

Catalog No. 710

Certification

Parameter	Certified Value	QC Performance Acceptance Limits™	PT Performance Acceptance Limits™
	µg/L	µg/L	µg/L
Acetone	93.5	40.3 - 129	18.1 - 151
Acetonitrile	<5.0	-	-
Acrolein	<5.0	-	-
Acrylonitrile	<5.0	-	-
Benzene	68.4	52.5 - 82.1	49.6 - 86.6
Bromodichloromethane	34.0	26.9 - 43.5	23.8 - 45.8
Bromoform	36.7	26.7 - 47.3	22.9 - 50.2
Bromomethane	<5.0	-	-
2-Butanone (MEK)	<5.0	-	-
tert-Butyl methyl ether (MTBE)	65.6	51.9 - 84.6	41.5 - 92.0
Carbon disulfide	<5.0	-	-
Carbon tetrachloride	60.9	39.4 - 76.1	33.3 - 83.1
Chlorobenzene	11.4	8.94 - 13.7	8.12 - 14.8
Chlorodibromomethane	89.5	68.6 - 111	61.4 - 119
Chloroethane	<5.0	-	-
2-Chloroethylvinylether	<5.0	-	-
Chloroform	78.8	60.6 - 97.7	54.6 - 101
Chloromethane	<5.0	-	-
1,2-Dibromo-3-chloropropane (DBCP)	13.4	8.75 - 17.4	6.58 - 19.6
1,2-Dibromoethane (EDB)	12.7	10.1 - 15.9	8.67 - 17.3
Dibromomethane	73.4	58.4 - 91.0	50.4 - 99.1
1,2-Dichlorobenzene	79.7	61.0 - 97.2	55.4 - 103
1,3-Dichlorobenzene	12.3	9.10 - 14.8	7.52 - 16.3
1,4-Dichlorobenzene	60.2	45.5 - 73.4	40.7 - 75.6
Dichlorodifluoromethane (Freon 12)	<5.0	-	-
1,1-Dichloroethane	<5.0	-	-
1,2-Dichloroethane	17.8	13.9 - 22.2	12.3 - 24.4
1,1-Dichloroethylene	<5.0	-	-
cis-1,2-Dichloroethylene	<5.0	-	-
trans-1,2-Dichloroethylene	<5.0	-	-
1,2-Dichloropropane	84.3	64.4 - 103	55.4 - 111
cis-1,3-Dichloropropylene	<5.0	-	-
trans-1,3-Dichloropropylene	<5.0	-	-
Ethylbenzene	42.1	31.3 - 51.4	28.9 - 53.8
Hexachlorobutadiene	98.2	24.9 - 136	11.0 - 118
2-Hexanone	<5.0	-	-
Methylene chloride	98.4	68.7 - 125	60.4 - 136
4-Methyl-2-pentanone (MIBK)	109	68.1 - 146	52.9 - 161
Naphthalene	44.4	26.7 - 54.6	13.8 - 55.8
Styrene	58.0	45.1 - 71.3	37.3 - 79.2
1,1,1,2-Tetrachloroethane	<5.0	-	-
1,1,2,2-Tetrachloroethane	51.4	37.7 - 67.8	29.2 - 76.4
Tetrachloroethylene	96.7	63.0 - 116	55.0 - 126
Toluene	67.1	51.4 - 80.5	46.6 - 84.0
1,2,4-Trichlorobenzene	<5.0	-	-

ENVIRONMENTAL
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Lot No. P155-710

PriorityPollutnT™ Volatiles
Catalog No. 710

Certification

Parameter	Certified Value	QC Performance Acceptance Limits™	PT Performance Acceptance Limits™
	µg/L	µg/L	µg/L
1,1,1-Trichloroethane	30.9	22.0 - 37.7	19.4 - 41.2
1,1,2-Trichloroethane	59.8	46.9 - 73.6	41.5 - 77.9
Trichloroethylene	79.5	57.4 - 96.2	50.5 - 103
Trichlorofluoromethane	<5.0	-	-
1,2,3-Trichloropropane (TCP)	119	73.4 - 163	51.0 - 184
Vinyl acetate	<5.0	-	-
Vinyl chloride	24.8	13.3 - 38.2	9.92 - 39.7
m-Xylene	<5.0	-	See (1)
o-Xylene	<5.0	-	See (1)
p-Xylene	<5.0	-	See (1)
Xylenes, total	<5.0	-	-

The Certified Values are the actual 'made-to' concentrations confirmed by ERA analytical verification.

The QC Performance Acceptance Limits (QC PALs™) are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

The PT Performance Acceptance Limits (PT PALs™) are calculated using the regression equations and fixed acceptance criteria specified in the USEPA National Standards Criteria Document and/or the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

(1) m, o & p-xylenes analyzed as total xylenes in the study

ENVIRONMENTAL RESOURCE ASSOCIATES®
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DataPacK™

Lot No. P155-710

Loureiro Engineering Assoc.
ERA Sample ID # 0310-08-01.1

PriorityPollutnT™ Volatiles

Catalog No. 710

Analytical Verification

Parameter	Certified Value	Proficiency Testing Study Mean Recovery		n	NIST SRM Number
	µg/L	µg/L	%		
Acetone	93.5	85.6	91.6	19	NIST SRM not available
Acetonitrile	<5.0	-	-	-	NIST SRM not available
Acrolein	<5.0	-	-	-	NIST SRM not available
Acrylonitrile	<5.0	-	-	-	NIST SRM not available
Benzene	68.4	65.7	96.0	26	SRM 1586-1
Bromodichloromethane	34.0	36.3	107	24	SRM 1639
Bromoform	36.7	36.7	100	24	SRM 1639
Bromomethane	<5.0	-	-	-	NIST SRM not available
2-Butanone (MEK)	<5.0	-	-	-	NIST SRM not available
tert-Butyl methyl ether (MTBE)	65.6	68.5	104	24	NIST SRM not available
Carbon disulfide	<5.0	-	-	-	NIST SRM not available
Carbon tetrachloride	60.9	59.6	97.9	24	SRM 1639
Chlorobenzene	11.4	11.7	103	26	SRM 1586-1
Chlorodibromomethane	89.5	90.5	101	23	SRM 1639
Chloroethane	<5.0	-	-	-	NIST SRM not available
2-Chloroethylvinylether	<5.0	-	-	-	NIST SRM not available
Chloroform	78.8	79.8	101	25	SRM 1639
Chloromethane	<5.0	-	-	-	NIST SRM not available
1,2-Dibromo-3-chloropropane (DBCP)	13.4	12.4	92.5	19	NIST SRM not available
1,2-Dibromoethane (EDB)	12.7	12.8	101	21	NIST SRM not available
Dibromomethane	73.4	80.4	110	19	NIST SRM not available
1,2-Dichlorobenzene	79.7	77.2	96.9	27	NIST SRM not available
1,3-Dichlorobenzene	12.3	11.6	94.3	27	NIST SRM not available
1,4-Dichlorobenzene	60.2	57.7	95.8	27	NIST SRM not available
Dichlorodifluoromethane (Freon 12)	<5.0	-	-	-	NIST SRM not available
1,1-Dichloroethane	<5.0	-	-	-	NIST SRM not available
1,2-Dichloroethane	17.8	19.2	108	25	SRM 3012
1,1-Dichloroethylene	<5.0	-	-	-	NIST SRM not available
cis-1,2-Dichloroethylene	<5.0	-	-	-	NIST SRM not available
trans-1,2-Dichloroethylene	<5.0	-	-	-	NIST SRM not available
1,2-Dichloropropane	84.3	85.6	102	24	SRM 3009
cis-1,3-Dichloropropylene	<5.0	-	-	-	NIST SRM not available
trans-1,3-Dichloropropylene	<5.0	-	-	-	NIST SRM not available
Ethylbenzene	42.1	41.4	98.3	26	SRM 3002
Hexachlorobutadiene	98.2	80.6	82.1	18	NIST SRM not available
2-Hexanone	<5.0	-	-	-	NIST SRM not available
Methylene chloride	98.4	97.3	98.9	24	SRM 3008
4-Methyl-2-pentanone (MIBK)	109	111	102	18	NIST SRM not available
Naphthalene	44.4	39.8	89.6	20	SRM 1647d
Styrene	58.0	56.4	97.2	21	NIST SRM not available
1,1,1,2-Tetrachloroethane	<5.0	-	-	-	NIST SRM not available
1,1,2,2-Tetrachloroethane	51.4	53.8	105	24	NIST SRM not available
Tetrachloroethylene	96.7	86.2	89.1	24	SRM 1639
Toluene	67.1	64.4	96.0	26	SRM 3001
1,2,4-Trichlorobenzene	<5.0	-	-	-	NIST SRM not available

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DataPacK™
Lot No. P155-710

PriorityPollutnT™ Volatiles
Catalog No. 710

Analytical Verification

Parameter	Certified Value	Proficiency Testing Study Mean Recovery		n	NIST SRM Number
	µg/L	µg/L	%		
1,1,1-Trichloroethane	30.9	30.4	98.4	24	SRM 3011
1,1,2-Trichloroethane	59.8	61.6	103	26	NIST SRM not available
Trichloroethylene	79.5	75.2	94.6	24	SRM 1639
Trichlorofluoromethane	<5.0	-	-	-	NIST SRM not available
1,2,3-Trichloropropane (TCP)	119	120	101	18	SRM 3014
Vinyl acetate	<5.0	-	-	-	NIST SRM not available
Vinyl chloride	24.8	22.2	89.5	25	NIST SRM not available
m-Xylene	<5.0	See (1)	-	-	SRM 3004
o-Xylene	<5.0	See (1)	-	-	SRM 3003
p-Xylene	<5.0	See (1)	-	-	SRM 3005
Xylenes, total	<5.0	-	-	-	NIST SRM not available

The Analytical Verification data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition,where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM Listed.

(1) m, o & p-xylenes analyzed as total xylenes in the study.

Please call ERA at 1-800-372-0122 if you have any questions or need technical assistance.

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Lot No. P153-764

Loureiro Engineering Assoc.
ERA Sample ID # 0310-08-01.2

Diesel Range Organics (DRO) in Water

Catalog No. 764

Certification

Parameter	Certified Value	QC Performance Acceptance Limits™	PT Performance Acceptance Limits™
	µg/L	µg/L	µg/L
Diesel Range Organics (DRO)	3820	1160 - 4620	952 - 4910

Analytical Verification

Parameter	Certified Value	Proficiency Testing Study Mean Recovery		n	NIST SRM Number
	µg/L	µg/L	%		
Diesel Range Organics (DRO)	3820	2880	75.4	58	SRM 1624b

The Certified Values are the actual "made-to" concentrations confirmed by ERA analytical verification.

The QC Performance Acceptance Limits (QC PALs™) are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmetal methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

The PT Performance Acceptance Limits (PT PALs™) are calculated using the regression equations and fixed acceptance criteria specified in the USEPA National Standards Criteria Document and/or the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please not that many PT acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

The Analytical Verification data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been traced to the NIST SRM listed.

The source for the Diesel Range Organics (DRO) is commercial grade No. 2 Diesel fuel.

Please call ERA at 1-800-372-0122 if you have any questions or need technical assistance.

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Lot No. P10402734

PCBs in Water

Catalog No. 865

Certification

Parameter	Certified Value	QC Performance Acceptance Limits™	PT Performance Acceptance Limits™
Loureiro Engineering Assoc. ERA Sample ID # 0310-08-01.3	µg/L	µg/L	µg/L
Aroclor 1016	<1.0	-	-
Aroclor 1221	<1.0	-	-
Aroclor 1232	<1.0	-	-
Aroclor 1242	<1.0	-	-
Aroclor 1248	<1.0	-	-
Aroclor 1254	1.95	0.969 - 2.59	0.771 - 2.82
Aroclor 1260	<1.0	-	-

Analytical Verification

Parameter	Certified Value	Proficiency Testing Study Mean Recovery		n	NIST SRM Number
	µg/L	µg/L	%		
Aroclor 1016	<1.0	-	-	-	SRM 3081
Aroclor 1221	<1.0	-	-	-	SRM not available
Aroclor 1232	<1.0	-	-	-	SRM 3082
Aroclor 1242	<1.0	-	-	-	SRM 3083
Aroclor 1248	<1.0	-	-	-	SRM 3084
Aroclor 1254	1.95	1.73	88.7%	30	SRM 3085
Aroclor 1260	<1.0	-	-	-	SRM 3086

The **Certified Values** are the actual 'made-to' concentrations confirmed by ERA analytical verification.

The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **QC PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the **QC PALs™** to realistically evaluate your performance against your peers.

The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the USEPA National Standards Criteria Document and/or the NELAC proficiency testing requirements. Use the **PT PALs™** when analyzing this QC standard alongside US EPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

The **Analytical Verification** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the **Certified Values**. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Please call ERA at 1-800-372-0122 if you have any questions or need technical assistance.

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DataPacK™

Lot No. P151-500

WasteWatR™ Trace Metals

Catalog No. 500

Certification

Loureiro Engineering Assoc. ERA Sample ID # 0310-08-01.4	Certified Value [1] (µg/l)	QC PALs™ [2] (µg/l)	PT PALs™ [3] (µg/l)
Parameter			
aluminum	887	804 - 967	711 - 1060
antimony	415	350 - 465	288 - 501
arsenic	586	530 - 642	492 - 686
barium	1050	984 - 1140	911 - 1180
beryllium	501	455 - 547	426 - 566
boron	855	778 - 983	709 - 997
cadmium	152	136 - 159	129 - 174
chromium	683	645 - 721	595 - 772
cobalt	111	101 - 121	96.1 - 125
copper	568	529 - 619	511 - 625
iron	249	219 - 289	216 - 287
lead	245	224 - 275	209 - 280
manganese	1460	1340 - 1600	1310 - 1620
molybdenum	460	423 - 490	390 - 525
nickel	804	761 - 879	726 - 899
selenium	1060	944 - 1180	843 - 1230
silver	535	481 - 589	459 - 613
strontium	65.7	60.1 - 73.9	54.4 - 76.8
thallium	737	655 - 834	606 - 876
vanadium	579	531 - 619	507 - 648
zinc	493	445 - 541	422 - 569

Analytical Verification

	Round Robin Data			NIST Traceability	
	Mean (µg/l)	Recovery (%)	n	SRM Number	Recovery (%)
Parameter					
aluminum	885	99.8%	36	SRM 3101a	100%
antimony	408	98.2%	41	SRM 3102a	99.7%
arsenic	586	100%	44	SRM 3103a	101%
barium	1060	101%	39	SRM 3104a	103%
beryllium	501	100%	40	SRM 3105a	101%
boron	881	103%	22	SRM 3107	105%
cadmium	147	96.9%	46	SRM 3108	99.0%
chromium	683	100%	45	SRM 3112a	99.2%
cobalt	112	101%	36	SRM 3113	98.6%
copper	574	101%	48	SRM 3114	102%
iron	254	102%	36	SRM 3126a	98.3%
lead	250	102%	48	SRM 3128	97.9%
manganese	1470	101%	41	SRM 3132	101%
molybdenum	457	99.3%	33	SRM 3134	102%
nickel	820	102%	41	SRM 3136	98.7%
selenium	1060	100%	41	SRM 3149	97.6%
silver	526	98.4%	46	SRM 3151	102%
strontium	67.0	102%	17	SRM 3153a	99.7%
thallium	744	101%	42	SRM 3158	98.7%
vanadium	575	99.3%	35	SRM 3165	99.4%
zinc	508	103%	39	SRM 3168a	98.2%

Please see footnotes on back

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1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification.

2. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **QC PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the **QC PALs™** to realistically evaluate your performance against your peers.

3. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the USEPA *National Standards Criteria Document* and/or the NELAC proficiency testing requirements. Use the **PT PALs™** when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

4. The **Analytical Verification** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

5. This standard **expires 11/2009.** The expiration date was determined using an ERA procedure based on ASTM standard practice D 4841-88. The expiration date is valid when the ERA standards have been stored following the directions provided in the ERA instructions that accompany this product.

Please call ERA at 1-800-372-0122 if you have any questions or need technical assistance.

RESULTS OF PERFORMANCE SAMPLE EVALUATION

2008 Post-Remediation Maintenance and Monitoring Report - F&H

Loureiro Engineering Associates, Inc.

Location Identifier: Performance
Sample Identifier 1316377 03/11/2008 12:00 Performance Evaluation, Water

Chemical Name	Reported Concentration	Qualifiers	R.L.	M.D.L.	Units	Dil.	Lab.	Lab. Number	Reference	Upper Limit	Lower Limit	Result
Total Petroleum Hydrocarbons (CT ETPH)	2.8		0.11	0.045	mg/L	1	STL-	220-4404-10	3.820	4.620	1.160	Pass

Location Identifier: Performance
Sample Identifier 1316378 03/11/2008 12:00 Performance Evaluation, Water

Chemical Name	Reported Concentration	Qualifiers	R.L.	M.D.L.	Units	Dil.	Lab.	Lab. Number	Reference	Upper Limit	Lower Limit	Result
1,1,1,2-Tetrachloroethane	ND<1.0	U	1.0	0.070	ug/L	1	STL-	220-4404-11				
1,1,1,2-Tetrachloroethane	ND<2.0	U	2.0	0.14	ug/L	2	STL-	220-4404-11R1				
1,1,1-Trichloroethane	30		1.0	0.13	ug/L	1	STL-	220-4404-11	30.9	37.7	22.0	Pass
1,1,1-Trichloroethane	35		2.0	0.26	ug/L	2	STL-	220-4404-11R1	30.9	37.7	22.0	Pass
1,1,2,2-Tetrachloroethane	76		1.0	0.070	ug/L	1	STL-	220-4404-11	51.4	67.8	37.7	FAIL
1,1,2,2-Tetrachloroethane	52		2.0	0.14	ug/L	2	STL-	220-4404-11R1	51.4	67.8	37.7	Pass
1,1,2-Trichloroethane	77		1.0	0.20	ug/L	1	STL-	220-4404-11	59.8	73.6	46.9	FAIL
1,1,2-Trichloroethane	64		2.0	0.40	ug/L	2	STL-	220-4404-11R1	59.8	73.6	46.9	Pass
1,1,2-Trichlorotrifluoroethane	ND<2.0	U	2.0	0.040	ug/L	1	STL-	220-4404-11				
1,1,2-Trichlorotrifluoroethane	ND<4.0	U	4.0	0.080	ug/L	2	STL-	220-4404-11R1				
1,1-Dichloroethane	ND<1.0	U	1.0	0.060	ug/L	1	STL-	220-4404-11				
1,1-Dichloroethane	ND<2.0	U	2.0	0.12	ug/L	2	STL-	220-4404-11R1				
1,1-Dichloroethylene	ND<1.0	U	1.0	0.050	ug/L	1	STL-	220-4404-11				
1,1-Dichloroethylene	ND<2.0	U	2.0	0.10	ug/L	2	STL-	220-4404-11R1				
1,2,4-Trichlorobenzene	ND<1.0	U	1.0	0.060	ug/L	1	STL-	220-4404-11				
1,2,4-Trichlorobenzene	ND<2.0	U	2.0	0.12	ug/L	2	STL-	220-4404-11R1				
1,2,4-Trimethylbenzene	ND<1.0	U	1.0	0.040	ug/L	1	STL-	220-4404-11				
1,2,4-Trimethylbenzene	ND<2.0	U	2.0	0.080	ug/L	2	STL-	220-4404-11R1				
1,2-Dibromo-3-Chloropropane	13		1.0	0.16	ug/L	1	STL-	220-4404-11	13.4	17.4	8.75	Pass
1,2-Dibromo-3-Chloropropane	12		2.0	0.32	ug/L	2	STL-	220-4404-11R1	13.4	17.4	8.75	Pass
1,2-Dichloroethane	19		1.0	0.050	ug/L	1	STL-	220-4404-11	17.8	22.2	13.9	Pass
1,2-Dichloroethane	23		2.0	0.10	ug/L	2	STL-	220-4404-11R1	17.8	22.2	13.9	FAIL
1,2-Dichloropropane	120	E	1.0	0.020	ug/L	1	STL-	220-4404-11	84.3	103	64.4	FAIL
1,2-Dichloropropane	84		2.0	0.040	ug/L	2	STL-	220-4404-11R1	84.3	103	64.4	Pass
1,3,5-Trimethylbenzene	ND<1.0	U	1.0	0.050	ug/L	1	STL-	220-4404-11				
1,3,5-Trimethylbenzene	ND<2.0	U	2.0	0.10	ug/L	2	STL-	220-4404-11R1				
4-Isopropyltoluene	ND<1.0	U	1.0	0.030	ug/L	1	STL-	220-4404-11				
4-Isopropyltoluene	ND<2.0	U	2.0	0.060	ug/L	2	STL-	220-4404-11R1				

RESULTS OF PERFORMANCE SAMPLE EVALUATION

2008 Post-Remediation Maintenance and Monitoring Report - F&H

Loureiro Engineering Associates, Inc.

Acetone	88	B	5.0	0.49	ug/L	1	STL-	220-4404-11	93.5	129	40.3	Pass
Acetone	93		10	0.98	ug/L	2	STL-	220-4404-11R1	93.5	129	40.3	Pass
Acetonitrile	ND<5.0	U	5.0	0.92	ug/L	1	STL-	220-4404-11				
Acetonitrile	ND<10	U	10	1.8	ug/L	2	STL-	220-4404-11R1				
Acrolein	ND<10	U	10	0.57	ug/L	1	STL-	220-4404-11				
Acrolein	ND<20	U	20	1.1	ug/L	2	STL-	220-4404-11R1				
Acrylonitrile	ND<5.0	U	5.0	0.47	ug/L	1	STL-	220-4404-11				
Acrylonitrile	ND<10	U	10	0.94	ug/L	2	STL-	220-4404-11R1				
Arochlor 1016	ND<0.53	U	0.53	0.076	ug/L	1	STL-	220-4404-11				
Arochlor 1221	ND<1.1	U	1.1	0.24	ug/L	1	STL-	220-4404-11				
Arochlor 1232	ND<0.53	U	0.53	0.11	ug/L	1	STL-	220-4404-11				
Arochlor 1242	ND<0.53	U	0.53	0.12	ug/L	1	STL-	220-4404-11				
Arochlor 1248	ND<0.53	U	0.53	0.15	ug/L	1	STL-	220-4404-11				
Arochlor 1254	1.5	M	0.53	0.039	ug/L	1	STL-	220-4404-11	1.95	2.59	0.969	Pass
Arochlor 1260	ND<0.53	U	0.53	0.067	ug/L	1	STL-	220-4404-11				
Arochlor 1262	ND<0.53	U	0.53	0.14	ug/L	1	STL-	220-4404-11				
Arochlor 1268	ND<0.53	U	0.53	0.062	ug/L	1	STL-	220-4404-11				
Arsenic (unfiltered)	0.56		0.01	0.0027	mg/L	1	STL-	220-4404-20	0.586	0.642	0.530	Pass
Barium (unfiltered)	0.99		0.0025	0.0012	mg/L	1	STL-	220-4404-20	1.05	1.14	0.984	Pass
Benzene	86		0.50	0.050	ug/L	1	STL-	220-4404-11	68.4	82.1	52.5	FAIL
Benzene	63		1.0	0.10	ug/L	2	STL-	220-4404-11R1	68.4	82.1	52.5	Pass
Bromodichloromethane	41		1.0	0.20	ug/L	1	STL-	220-4404-11	34.0	43.5	26.9	Pass
Bromodichloromethane	40		2.0	0.40	ug/L	2	STL-	220-4404-11R1	34.0	43.5	26.9	Pass
Bromoform	42		1.0	0.060	ug/L	1	STL-	220-4404-11	36.7	47.3	26.7	Pass
Bromoform	38		2.0	0.12	ug/L	2	STL-	220-4404-11R1	36.7	47.3	26.7	Pass
Bromomethane	ND<3.0	U	3.0	0.41	ug/L	1	STL-	220-4404-11				
Bromomethane	ND<6.0	U	6.0	0.82	ug/L	2	STL-	220-4404-11R1				
Butyl Benzene	ND<1.0	U	1.0	0.070	ug/L	1	STL-	220-4404-11				
Butyl Benzene	ND<2.0	U	2.0	0.14	ug/L	2	STL-	220-4404-11R1				
Cadmium (unfiltered)	0.14		0.0025	0.00055	mg/L	1	STL-	220-4404-20	0.152	0.159	0.136	Pass
Carbon Disulfide	ND<1.0	U	1.0	0.050	ug/L	1	STL-	220-4404-11				
Carbon Disulfide	ND<2.0	U	2.0	0.10	ug/L	2	STL-	220-4404-11R1				
Carbon Tetrachloride	60		1.0	0.050	ug/L	1	STL-	220-4404-11	60.9	76.1	39.4	Pass
Carbon Tetrachloride	70		2.0	0.10	ug/L	2	STL-	220-4404-11R1	60.9	76.1	39.4	Pass
Chlorobenzene	12		1.0	0.040	ug/L	1	STL-	220-4404-11	11.4	13.7	8.94	Pass
Chlorobenzene	10		2.0	0.080	ug/L	2	STL-	220-4404-11R1	11.4	13.7	8.94	Pass
Chlorodibromomethane	99		1.0	0.040	ug/L	1	STL-	220-4404-11	89.5	111	68.6	Pass
Chlorodibromomethane	95		2.0	0.080	ug/L	2	STL-	220-4404-11R1	89.5	111	68.6	Pass
Chloroethane	ND<3.0	U	3.0	0.38	ug/L	1	STL-	220-4404-11				
Chloroethane	ND<6.0	U	6.0	0.76	ug/L	2	STL-	220-4404-11R1				

RESULTS OF PERFORMANCE SAMPLE EVALUATION

2008 Post-Remediation Maintenance and Monitoring Report - F&H

Loureiro Engineering Associates, Inc.

Chloroform	85		1.0	0.11	ug/L	1	STL-	220-4404-11	78.8	97.7	60.6	Pass
Chloroform	86		2.0	0.22	ug/L	2	STL-	220-4404-11R1	78.8	97.7	60.6	Pass
Chloromethane	ND<1.0	U	1.0	0.16	ug/L	1	STL-	220-4404-11				
Chloromethane	ND<2.0	U	2.0	0.32	ug/L	2	STL-	220-4404-11R1				
Chromium, Total (unfiltered)	0.68		0.0050	0.00095	mg/L	1	STL-	220-4404-20	0.683	0.721	0.645	Pass
Copper (unfiltered)	0.54		0.0050	0.0020	mg/L	1	STL-	220-4404-20	0.568	0.619	0.529	Pass
Dichlorodifluoromethane	ND<1.0	U	1.0	0.14	ug/L	1	STL-	220-4404-11				
Dichlorodifluoromethane	ND<2.0	U	2.0	0.28	ug/L	2	STL-	220-4404-11R1				
Ethylbenzene	49		1.0	0.10	ug/L	1	STL-	220-4404-11	42.1	51.4	31.3	Pass
Ethylbenzene	36		2.0	0.20	ug/L	2	STL-	220-4404-11R1	42.1	51.4	31.3	Pass
Ethylene Dibromide	13		1.0	0.020	ug/L	1	STL-	220-4404-11				FALSE POSITIVE
Ethylene Dibromide	12		2.0	0.040	ug/L	2	STL-	220-4404-11R1				FALSE POSITIVE
Isocumene	ND<1.0	U	1.0	0.060	ug/L	1	STL-	220-4404-11				
Isocumene	ND<2.0	U	2.0	0.12	ug/L	2	STL-	220-4404-11R1				
Isopropylbenzene (Cumene)	ND<1.0	U	1.0	0.040	ug/L	1	STL-	220-4404-11				
Isopropylbenzene (Cumene)	ND<2.0	U	2.0	0.080	ug/L	2	STL-	220-4404-11R1				
Lead (unfiltered)	0.23		0.0050	0.0024	mg/L	1	STL-	220-4404-20	0.245	0.275	0.224	Pass
Mercury (unfiltered)	ND<0.00020	U	0.0002	0.000090	mg/L	1	STL-	220-4404-20				
Methyl Ethyl ketone	ND<2.0	U	2.0	0.31	ug/L	1	STL-	220-4404-11				
Methyl Ethyl ketone	ND<4.0	U	4.0	0.62	ug/L	2	STL-	220-4404-11R1				
Methyl Isobutyl ketone	170	E	2.0	0.15	ug/L	1	STL-	220-4404-11	109	146	68.1	FAIL
Methyl Isobutyl ketone	120		4.0	0.30	ug/L	2	STL-	220-4404-11R1	109	146	68.1	Pass
Methyl tert-Butyl ether	68		1.0	0.050	ug/L	1	STL-	220-4404-11	65.6	84.6	51.9	Pass
Methyl tert-Butyl ether	71		2.0	0.10	ug/L	2	STL-	220-4404-11R1	65.6	84.6	51.9	Pass
Methylene Chloride	110	E	5.0	0.28	ug/L	1	STL-	220-4404-11	98.4	125	68.7	Pass
Methylene Chloride	100		10	0.56	ug/L	2	STL-	220-4404-11R1	98.4	125	68.7	Pass
Nickel (unfiltered)	0.79		0.0050	0.00095	mg/L	1	STL-	220-4404-20	0.804	0.879	0.761	Pass
Selenium (unfiltered)	1		0.015	0.0049	mg/L	1	STL-	220-4404-20	1.060	1.180	0.944	Pass
Silver (unfiltered)	0.31		0.0025	0.00065	mg/L	1	STL-	220-4404-20	0.535	0.589	0.481	FAIL
Styrene	70		1.0	0.040	ug/L	1	STL-	220-4404-11	58.0	71.3	45.1	Pass
Styrene	53		2.0	0.080	ug/L	2	STL-	220-4404-11R1	58.0	71.3	45.1	Pass
Tetrachloroethylene	89		1.0	0.050	ug/L	1	STL-	220-4404-11	96.7	116	63.0	Pass
Tetrachloroethylene	80		2.0	0.10	ug/L	2	STL-	220-4404-11R1	96.7	116	63.0	Pass
Tetrahydrofuran	ND<3.0	U	3.0	0.29	ug/L	1	STL-	220-4404-11				
Tetrahydrofuran	ND<6.0	U	6.0	0.58	ug/L	2	STL-	220-4404-11R1				
Toluene	86		1.0	0.060	ug/L	1	STL-	220-4404-11	67.1	80.5	51.4	FAIL
Toluene	63		2.0	0.12	ug/L	2	STL-	220-4404-11R1	67.1	80.5	51.4	Pass
Trichloroethylene	83		1.0	0.050	ug/L	1	STL-	220-4404-11	79.5	96.2	57.4	Pass
Trichloroethylene	76		2.0	0.10	ug/L	2	STL-	220-4404-11R1	79.5	96.2	57.4	Pass
Trichlorofluoromethane	ND<1.0	U	1.0	0.060	ug/L	1	STL-	220-4404-11				

Trichlorofluoromethane	ND<2.0	U	2.0	0.12	ug/L	2	STL-	220-4404-11R1				
Vinyl Chloride	27		1.0	0.090	ug/L	1	STL-	220-4404-11	24.8	38.2	13.3	Pass
Vinyl Chloride	25		2.0	0.18	ug/L	2	STL-	220-4404-11R1	24.8	38.2	13.3	Pass
Xylenes, Total	ND<2.0	U	2.0	0.080	ug/L	1	STL-	220-4404-11				
Xylenes, Total	ND<4.0	U	4.0	0.16	ug/L	2	STL-	220-4404-11R1				
Zinc (unfiltered)	0.5		0.025	0.0060	mg/L	1	STL-	220-4404-20	0.493	0.541	0.445	Pass
cis-1,2-Dichloroethylene	2.8		1.0	0.13	ug/L	1	STL-	220-4404-11				FALSE POSITIVE
cis-1,2-Dichloroethylene	ND<2.0	U	2.0	0.26	ug/L	2	STL-	220-4404-11R1				
cis-1,3-Dichloropropene	ND<1.0	U	1.0	0.060	ug/L	1	STL-	220-4404-11				
cis-1,3-Dichloropropene	ND<2.0	U	2.0	0.12	ug/L	2	STL-	220-4404-11R1				
m-Dichlorobenzene	11		1.0	0.060	ug/L	1	STL-	220-4404-11	12.3	14.8	9.10	Pass
m-Dichlorobenzene	9.4		2.0	0.12	ug/L	2	STL-	220-4404-11R1	12.3	14.8	9.10	Pass
o-Dichlorobenzene	88		1.0	0.080	ug/L	1	STL-	220-4404-11	79.7	97.2	61.0	Pass
o-Dichlorobenzene	71		2.0	0.16	ug/L	2	STL-	220-4404-11R1	79.7	97.2	61.0	Pass
p-Dichlorobenzene	64		1.0	0.050	ug/L	1	STL-	220-4404-11	60.2	73.4	45.5	Pass
p-Dichlorobenzene	52		2.0	0.10	ug/L	2	STL-	220-4404-11R1	60.2	73.4	45.5	Pass
sec-Butylbenzene	ND<1.0	U	1.0	0.030	ug/L	1	STL-	220-4404-11				
sec-Butylbenzene	ND<2.0	U	2.0	0.060	ug/L	2	STL-	220-4404-11R1				
tert-Butylbenzene	ND<1.0	U	1.0	0.060	ug/L	1	STL-	220-4404-11				
tert-Butylbenzene	ND<2.0	U	2.0	0.12	ug/L	2	STL-	220-4404-11R1				
trans-1,2-Dichloroethylene	ND<2.0	U	2.0	0.090	ug/L	1	STL-	220-4404-11				
trans-1,2-Dichloroethylene	ND<4.0	U	4.0	0.18	ug/L	2	STL-	220-4404-11R1				
trans-1,3-Dichloropropene	ND<1.0	U	1.0	0.040	ug/L	1	STL-	220-4404-11				
trans-1,3-Dichloropropene	ND<2.0	U	2.0	0.080	ug/L	2	STL-	220-4404-11R1				
trans-1,4-Dichlorobutene	ND<2.0	U	2.0	0.32	ug/L	1	STL-	220-4404-11				
trans-1,4-Dichlorobutene	ND<4.0	U	4.0	0.64	ug/L	2	STL-	220-4404-11R1				

ATTACHMENT B-3

Analytical Laboratory Reports

ANALYTICAL REPORT

Job Number: 220-4404-1

SDG Number: 220-4404

Job Description: Pratt & Whitney East Hartford, F&H Build

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Richard J Brainerd

Designee for
Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
04/02/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

Job Narrative
220-J4404-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The laboratory control standard (LCS) for the following analytes were outside CTRCP control limits for
Batch 14387: dichlorodifluoromethane, chloroethane, acetone (>160%), methyl ethyl ketone, trans-1,4-dichloro-2-butene
Batch 14397: chloromethane, chloroethane, trichlorofluoromethane and trans1,4-dichloro-2-butene
Batch 14452: dichorodifluoromethane, chloromethane, acetone, methyl ethyl ketone and trans-1,4-dichloro-2-butene.

Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: 1316378 (220-4404-11). Elevated reporting limits (RLs) are provided. A straight run was also analyzed and reported.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG: 220-4404

Laboratory Chronicle

Lab ID: 220-4404-1 **Client ID: 1316372**

Sample Date/Time: 03/11/2008 10:40 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-G-1		220-14387		03/24/2008 17:55	1	TAL CT	LD
A:8260B	220-4404-G-1		220-14387		03/24/2008 17:55	1	TAL CT	LD
P:3510C	220-4404-D-1-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-D-1-A		220-14317	220-14222	03/19/2008 16:02	1	TAL CT	SJ
P:3510C	220-4404-A-1-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-A-1-A		220-14353	220-14258	03/20/2008 17:45	1	TAL CT	SJ

Lab ID: 220-4404-2 **Client ID: 1316373**

Sample Date/Time: 03/11/2008 12:10 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-2		220-14452		03/21/2008 12:25	1	TAL CT	DH
A:8260B	220-4404-F-2		220-14452		03/21/2008 12:25	1	TAL CT	DH
P:3510C	220-4404-A-2-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-A-2-A		220-14317	220-14222	03/19/2008 16:19	1	TAL CT	SJ
P:3510C	220-4404-B-2-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-B-2-A		220-14353	220-14258	03/20/2008 18:12	1	TAL CT	SJ

Lab ID: 220-4404-3 **Client ID: 1316374**

Sample Date/Time: 03/11/2008 13:55 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-3		220-14397		03/21/2008 23:50	1	TAL CT	BK
A:8260B	220-4404-F-3		220-14397		03/21/2008 23:50	1	TAL CT	BK
P:3510C	220-4404-C-3-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-C-3-A		220-14317	220-14222	03/19/2008 16:36	1	TAL CT	SJ
P:3510C	220-4404-D-3-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-D-3-A		220-14353	220-14258	03/20/2008 18:39	1	TAL CT	SJ

Lab ID: 220-4404-4 **Client ID: 1316368**

Sample Date/Time: 03/11/2008 10:05 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-4		220-14452		03/21/2008 11:32	1	TAL CT	DH
A:8260B	220-4404-F-4		220-14452		03/21/2008 11:32	1	TAL CT	DH
P:3510C	220-4404-C-4-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-C-4-A		220-14317	220-14222	03/19/2008 16:52	1	TAL CT	SJ
P:3510C	220-4404-A-4-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-A-4-A		220-14353	220-14258	03/20/2008 19:06	1	TAL CT	SJ

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG: 220-4404

Laboratory Chronicle

Lab ID: 220-4404-5 **Client ID: 1316371**

Sample Date/Time: 03/11/2008 10:05 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-G-5		220-14452		03/21/2008 11:58	1	TAL CT	DH
A:8260B	220-4404-G-5		220-14452		03/21/2008 11:58	1	TAL CT	DH
P:3510C	220-4404-C-5-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-C-5-A		220-14317	220-14222	03/19/2008 17:09	1	TAL CT	SJ
P:3510C	220-4404-D-5-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-D-5-A		220-14353	220-14258	03/20/2008 19:33	1	TAL CT	SJ

Lab ID: 220-4404-6 **Client ID: 1316369**

Sample Date/Time: 03/11/2008 12:10 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-6		220-14452		03/21/2008 13:18	1	TAL CT	DH
A:8260B	220-4404-F-6		220-14452		03/21/2008 13:18	1	TAL CT	DH
P:3510C	220-4404-A-6-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-A-6-A		220-14317	220-14222	03/19/2008 17:26	1	TAL CT	SJ
P:3510C	220-4404-B-6-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-B-6-A		220-14353	220-14258	03/20/2008 20:01	1	TAL CT	SJ

Lab ID: 220-4404-7 **Client ID: 1316370**

Sample Date/Time: 03/11/2008 13:55 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-7		220-14397		03/22/2008 00:16	1	TAL CT	BK
A:8260B	220-4404-F-7		220-14397		03/22/2008 00:16	1	TAL CT	BK
P:3510C	220-4404-B-7-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-B-7-A		220-14317	220-14222	03/19/2008 17:43	1	TAL CT	SJ
P:3510C	220-4404-D-7-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-D-7-A		220-14353	220-14258	03/20/2008 20:27	1	TAL CT	SJ

Lab ID: 220-4404-8 **Client ID: 1316375**

Sample Date/Time: 03/11/2008 14:25 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-8		220-14397		03/22/2008 00:43	1	TAL CT	BK
A:8260B	220-4404-F-8		220-14397		03/22/2008 00:43	1	TAL CT	BK
P:3510C	220-4404-C-8-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-C-8-A		220-14317	220-14222	03/19/2008 17:59	1	TAL CT	SJ
P:3510C	220-4404-B-8-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-B-8-A		220-14353	220-14258	03/20/2008 20:54	1	TAL CT	SJ

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG: 220-4404

Laboratory Chronicle

Lab ID: 220-4404-9 **Client ID: 1316376**

Sample Date/Time: 03/11/2008 14:35 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-A-9		220-14397		03/22/2008 01:09	1	TAL CT	BK
A:8260B	220-4404-A-9		220-14397		03/22/2008 01:09	1	TAL CT	BK

Lab ID: 220-4404-10 **Client ID: 1316377**

Sample Date/Time: 03/11/2008 12:00 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-4404-B-10-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	220-4404-B-10-A		220-14353	220-14258	03/20/2008 21:21	1	TAL CT	SJ

Lab ID: 220-4404-11 **Client ID: 1316378**

Sample Date/Time: 03/11/2008 12:00 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-4404-F-11		220-14397		03/22/2008 01:36	1	TAL CT	BK
A:8260B	220-4404-F-11		220-14397		03/22/2008 01:36	1	TAL CT	BK
P:5030B	220-4404-C-11	DL	220-14387		03/24/2008 16:36	2	TAL CT	LD
A:8260B	220-4404-C-11	DL	220-14387		03/24/2008 16:36	2	TAL CT	LD
P:3510C	220-4404-A-11-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	220-4404-A-11-A		220-14317	220-14222	03/19/2008 18:16	1	TAL CT	SJ

Lab ID: 220-4404-12 **Client ID: 1316372uf**

Sample Date/Time: 03/11/2008 10:40 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-12-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-12-A		220-14232	220-14138	03/17/2008 12:47	1	TAL CT	NP
P:7470A	220-4404-A-12-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-12-B		220-14151	220-14143	03/14/2008 09:54	1	TAL CT	JFV

Lab ID: 220-4404-13 **Client ID: 1316373uf**

Sample Date/Time: 03/11/2008 12:10 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-13-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-13-A		220-14232	220-14138	03/17/2008 12:52	1	TAL CT	NP
P:7470A	220-4404-A-13-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-13-B		220-14151	220-14143	03/14/2008 09:55	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG: 220-4404

Laboratory Chronicle

Lab ID: 220-4404-14 **Client ID: 1316374uf**

Sample Date/Time: 03/11/2008 13:55 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-14-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-14-A		220-14232	220-14138	03/17/2008 13:06	1	TAL CT	NP
P:7470A	220-4404-A-14-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-14-B		220-14151	220-14143	03/14/2008 09:56	1	TAL CT	JFV

Lab ID: 220-4404-15 **Client ID: 1316368uf**

Sample Date/Time: 03/11/2008 10:05 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-15-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-15-A		220-14232	220-14138	03/17/2008 13:15	1	TAL CT	NP
P:7470A	220-4404-A-15-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-15-B		220-14151	220-14143	03/14/2008 09:57	1	TAL CT	JFV

Lab ID: 220-4404-16 **Client ID: 1316371uf**

Sample Date/Time: 03/11/2008 10:05 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-16-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-16-A		220-14232	220-14138	03/17/2008 13:20	1	TAL CT	NP
P:7470A	220-4404-A-16-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-16-B		220-14151	220-14143	03/14/2008 09:58	1	TAL CT	JFV

Lab ID: 220-4404-17 **Client ID: 1316369uf**

Sample Date/Time: 03/11/2008 12:10 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-17-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-17-A		220-14232	220-14138	03/17/2008 13:25	1	TAL CT	NP
P:7470A	220-4404-A-17-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-17-B		220-14151	220-14143	03/14/2008 09:59	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG: 220-4404

Laboratory Chronicle

Lab ID: 220-4404-18 **Client ID: 1316370uf**

Sample Date/Time: 03/11/2008 13:55 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-18-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-18-A		220-14232	220-14138	03/17/2008 13:29	1	TAL CT	NP
P:7470A	220-4404-A-18-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-18-B		220-14151	220-14143	03/14/2008 10:02	1	TAL CT	JFV

Lab ID: 220-4404-19 **Client ID: 1316375uf**

Sample Date/Time: 03/11/2008 14:25 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-19-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-19-A		220-14232	220-14138	03/17/2008 13:34	1	TAL CT	NP
P:7470A	220-4404-A-19-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-19-B		220-14151	220-14143	03/14/2008 10:03	1	TAL CT	JFV

Lab ID: 220-4404-20 **Client ID: 1316378uf**

Sample Date/Time: 03/11/2008 12:00 Received Date/Time: 03/12/2008 10:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-4404-A-20-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	220-4404-A-20-A		220-14232	220-14138	03/17/2008 13:39	1	TAL CT	NP
P:7470A	220-4404-A-20-B		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	220-4404-A-20-B		220-14151	220-14143	03/14/2008 10:04	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG: 220-4404

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-14452/3		220-14452		03/21/2008 10:02	1	TAL CT	DH
A:8260B	MB 220-14452/3		220-14452		03/21/2008 10:02	1	TAL CT	DH
P:5030B	MB 220-14397/3		220-14397		03/21/2008 22:31	1	TAL CT	BK
A:8260B	MB 220-14397/3		220-14397		03/21/2008 22:31	1	TAL CT	BK
P:5030B	MB 220-14387/3		220-14387		03/24/2008 09:38	1	TAL CT	LD
A:8260B	MB 220-14387/3		220-14387		03/24/2008 09:38	1	TAL CT	LD
P:3510C	MB 220-14222/1-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	MB 220-14222/1-A		220-14317	220-14222	03/19/2008 15:29	1	TAL CT	SJ
P:3510C	MB 220-14258/1-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	MB 220-14258/1-A		220-14353	220-14258	03/20/2008 13:38	1	TAL CT	SJ
P:3010A	MB 220-14138/1-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	MB 220-14138/1-A		220-14232	220-14138	03/17/2008 11:29	1	TAL CT	NP
P:7470A	MB 220-14143/1-A		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	MB 220-14143/1-A		220-14151	220-14143	03/14/2008 09:37	1	TAL CT	JFV

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-14452/2		220-14452		03/21/2008 09:09	1	TAL CT	DH
A:8260B	LCS 220-14452/2		220-14452		03/21/2008 09:09	1	TAL CT	DH
P:5030B	LCS 220-14397/2		220-14397		03/21/2008 21:38	1	TAL CT	BK
A:8260B	LCS 220-14397/2		220-14397		03/21/2008 21:38	1	TAL CT	BK
P:5030B	LCS 220-14387/2		220-14387		03/24/2008 09:08	1	TAL CT	LD
A:8260B	LCS 220-14387/2		220-14387		03/24/2008 09:08	1	TAL CT	LD
P:3510C	LCS 220-14222/3-A		220-14317	220-14222	03/17/2008 18:07	1	TAL CT	EL
A:8082	LCS 220-14222/3-A		220-14317	220-14222	03/19/2008 15:45	1	TAL CT	SJ
P:3510C	LCS 220-14258/2-A		220-14353	220-14258	03/18/2008 16:20	1	TAL CT	TF
A:CT ETPH	LCS 220-14258/2-A		220-14353	220-14258	03/20/2008 14:06	1	TAL CT	SJ
P:3010A	LCS 220-14138/2-A		220-14232	220-14138	03/13/2008 11:30	1	TAL CT	JFV
A:6010B	LCS 220-14138/2-A		220-14232	220-14138	03/17/2008 11:33	1	TAL CT	NP
P:7470A	LCS 220-14143/2-A		220-14151	220-14143	03/13/2008 12:00	1	TAL CT	JFV
A:7470A	LCS 220-14143/2-A		220-14151	220-14143	03/14/2008 09:38	1	TAL CT	JFV

Lab References:
TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL CT	SW846 8260B	
Purge-and-Trap	TAL CT		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CT	SW846 8082	
Separatory Funnel Liquid-Liquid Extraction	TAL CT		SW846 3510C
CT Extractable Total Petroleum Hydrocarbons	TAL CT	STATE CT ETPH	
Separatory Funnel Liquid-Liquid Extraction	TAL CT		SW846 3510C
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL CT	SW846 6010B	
Acid Digestion of Aqueous Samples and Extracts for	TAL CT		SW846 3010A
Mercury in Liquid Waste (Manual Cold Vapor Technique)	TAL CT	SW846 7470A	
Mercury in Liquid Waste (Manual Cold Vapor	TAL CT		SW846 7470A

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

STATE = State of Connecticut Department of Public Health

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method		Analyst	Analyst ID
SW846	8260B	Decker, Larry	LD
SW846	8260B	Humbert, Dave	DH
SW846	8260B	Kostrzewska, Barbara	BK
SW846	8082	Jonas, Stephan	SJ
STATE	CT ETPH	Jonas, Stephan	SJ
SW846	6010B	Petronchak, Nestor	NP
SW846	7470A	Voytek, Joseph F	JFV

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-4404-1	1316372	Water	03/11/2008 1040	03/12/2008 1005
220-4404-2	1316373	Water	03/11/2008 1210	03/12/2008 1005
220-4404-3	1316374	Water	03/11/2008 1355	03/12/2008 1005
220-4404-4	1316368	Water	03/11/2008 1005	03/12/2008 1005
220-4404-5	1316371	Water	03/11/2008 1005	03/12/2008 1005
220-4404-6	1316369	Water	03/11/2008 1210	03/12/2008 1005
220-4404-7	1316370	Water	03/11/2008 1355	03/12/2008 1005
220-4404-8	1316375	Water	03/11/2008 1425	03/12/2008 1005
220-4404-9TB	1316376	Water	03/11/2008 1435	03/12/2008 1005
220-4404-10	1316377	Water	03/11/2008 1200	03/12/2008 1005
220-4404-11	1316378	Water	03/11/2008 1200	03/12/2008 1005
220-4404-12	1316372uf	Water	03/11/2008 1040	03/12/2008 1005
220-4404-13	1316373uf	Water	03/11/2008 1210	03/12/2008 1005
220-4404-14	1316374uf	Water	03/11/2008 1355	03/12/2008 1005
220-4404-15	1316368uf	Water	03/11/2008 1005	03/12/2008 1005
220-4404-16	1316371uf	Water	03/11/2008 1005	03/12/2008 1005
220-4404-17	1316369uf	Water	03/11/2008 1210	03/12/2008 1005
220-4404-18	1316370uf	Water	03/11/2008 1355	03/12/2008 1005
220-4404-19	1316375uf	Water	03/11/2008 1425	03/12/2008 1005
220-4404-20	1316378uf	Water	03/11/2008 1200	03/12/2008 1005

SAMPLE RESULTS

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316372

Lab Sample ID: 220-4404-1
Client Matrix: Water

Date Sampled: 03/11/2008 1040
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2008 1755
Date Prepared: 03/24/2008 1755

Analysis Batch: 220-14387

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3280.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	1.1	J	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	0.43	J	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	3.8		0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	0.74	J	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	3.7		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	0.75	J	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	0.42	J	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316372

Lab Sample ID: 220-4404-1
Client Matrix: Water

Date Sampled: 03/11/2008 1040
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/24/2008 1755
Date Prepared: 03/24/2008 1755

Analysis Batch: 220-14387

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3280.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	53 - 125
4-Bromofluorobenzene	80	73 - 127
Dibromofluoromethane	96	54 - 137
Toluene-d8 (Surr)	83	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316373

Lab Sample ID: 220-4404-2
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1225
Date Prepared: 03/21/2008 1225

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4883.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U *	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316373

Lab Sample ID: 220-4404-2
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1225
Date Prepared: 03/21/2008 1225

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4883.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	53 - 125
4-Bromofluorobenzene	89	73 - 127
Dibromofluoromethane	98	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316374

Lab Sample ID: 220-4404-3
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 2350
Date Prepared: 03/21/2008 2350

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4908.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	0.88	J M B	0.49	5.0
Methylene Chloride	5.0	U M	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	0.65	J	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	26		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316374

Lab Sample ID: 220-4404-3
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 2350
Date Prepared: 03/21/2008 2350

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4908.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	92	54 - 137
Toluene-d8 (Surr)	81	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316368

Lab Sample ID: 220-4404-4
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1132
Date Prepared: 03/21/2008 1132

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4881.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U *	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	0.28	J	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316368

Lab Sample ID: 220-4404-4
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1132
Date Prepared: 03/21/2008 1132

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4881.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	90	54 - 137
Toluene-d8 (Surr)	82	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316371

Lab Sample ID: 220-4404-5
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1158
Date Prepared: 03/21/2008 1158

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4882.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U *	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	0.25	J	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	2.1	J B	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316371

Lab Sample ID: 220-4404-5
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1158
Date Prepared: 03/21/2008 1158

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4882.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	92	54 - 137
Toluene-d8 (Surr)	83	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316369

Lab Sample ID: 220-4404-6
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1318
Date Prepared: 03/21/2008 1318

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4885.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U *	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.33	J	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	1.8	J B	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.22	J	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	0.52	J B	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	2.2		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.5		0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316369

Lab Sample ID: 220-4404-6
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2008 1318
Date Prepared: 03/21/2008 1318

Analysis Batch: 220-14452

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4885.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	0.49	J	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	93	54 - 137
Toluene-d8 (Surr)	88	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316370

Lab Sample ID: 220-4404-7
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0016
Date Prepared: 03/22/2008 0016

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4909.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	1.4	J M B	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	0.75	J	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.9		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316370

Lab Sample ID: 220-4404-7
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0016
Date Prepared: 03/22/2008 0016

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4909.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	53 - 125
4-Bromofluorobenzene	87	73 - 127
Dibromofluoromethane	95	54 - 137
Toluene-d8 (Surr)	84	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316375

Lab Sample ID: 220-4404-8
Client Matrix: Water

Date Sampled: 03/11/2008 1425
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0043
Date Prepared: 03/22/2008 0043

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4910.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	2.9	J B	0.49	5.0
Methylene Chloride	1.9	J B	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	0.11	J M	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316375

Lab Sample ID: 220-4404-8
Client Matrix: Water

Date Sampled: 03/11/2008 1425
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0043
Date Prepared: 03/22/2008 0043

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4910.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	94	54 - 137
Toluene-d8 (Surr)	81	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316376

Lab Sample ID: 220-4404-9TB
Client Matrix: Water

Date Sampled: 03/11/2008 1435
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0109
Date Prepared: 03/22/2008 0109

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4911.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	2.2	J B	0.49	5.0
Methylene Chloride	1.2	J B	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316376

Lab Sample ID: 220-4404-9TB
Client Matrix: Water

Date Sampled: 03/11/2008 1435
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0109
Date Prepared: 03/22/2008 0109

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4911.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	53 - 125
4-Bromofluorobenzene	84	73 - 127
Dibromofluoromethane	97	54 - 137
Toluene-d8 (Surr)	83	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316378

Lab Sample ID: 220-4404-11
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0136
Date Prepared: 03/22/2008 0136

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4912.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	53 - 125
4-Bromofluorobenzene	79	73 - 127
Dibromofluoromethane	85	54 - 137
Toluene-d8 (Surr)	79	63 - 121

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0136
Date Prepared: 03/22/2008 0136

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4912.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	27		0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	88	B	0.49	5.0
Methylene Chloride	110	E B	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	68		0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	2.8		0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	85		0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	30		0.13	1.0
Carbon tetrachloride	60		0.050	1.0
Benzene	86		0.050	0.50
1,2-Dichloroethane	19		0.050	1.0
Trichloroethene	83		0.050	1.0
methyl isobutyl ketone	170	E	0.15	2.0
Toluene	86		0.060	1.0
1,1,2-Trichloroethane	77		0.20	1.0
Tetrachloroethene	89		0.050	1.0
Dibromochloromethane	99		0.040	1.0
1,2-Dibromoethane	13		0.020	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316378

Lab Sample ID: 220-4404-11
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2008 0136
Date Prepared: 03/22/2008 0136

Analysis Batch: 220-14397

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4912.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	12		0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	49		0.10	1.0
Styrene	70		0.040	1.0
Bromoform	42		0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	0.32	2.0
1,1,2,2-Tetrachloroethane	76		0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	11		0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0
1,4-Dichlorobenzene	64		0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	88		0.080	1.0
1,2-Dibromo-3-Chloropropane	13		0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	120	E	0.020	1.0
Bromodichloromethane	41		0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316378

Lab Sample ID: 220-4404-11
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 220-14387		Instrument ID:	HP 6890/5973 GC/MS
Preparation:	5030B			Lab File ID:	Y3277.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Date Analyzed:	03/24/2008 1636	Run Type: DL		Final Weight/Volume:	5 mL
Date Prepared:	03/24/2008 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.0	U *	0.28	2.0
Chloromethane	2.0	U	0.32	2.0
Vinyl chloride	25		0.18	2.0
Bromomethane	6.0	U	0.82	6.0
Chloroethane	6.0	U	0.76	6.0
Trichlorofluoromethane	2.0	U	0.12	2.0
1,1-Dichloroethene	2.0	U	0.10	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	0.080	4.0
Carbon disulfide	2.0	U	0.10	2.0
Acetone	93		0.98	10
Methylene Chloride	100		0.56	10
trans-1,2-Dichloroethene	4.0	U	0.18	4.0
Acrylonitrile	10	U	0.94	10
Methyl tert-butyl ether	71		0.10	2.0
1,1-Dichloroethane	2.0	U	0.12	2.0
cis-1,2-Dichloroethene	2.0	U	0.26	2.0
Methyl Ethyl Ketone	4.0	U	0.62	4.0
Chloroform	86		0.22	2.0
Tetrahydrofuran	6.0	U	0.58	6.0
1,1,1-Trichloroethane	35		0.26	2.0
Carbon tetrachloride	70		0.10	2.0
Benzene	63		0.10	1.0
1,2-Dichloroethane	23		0.10	2.0
Trichloroethene	76		0.10	2.0
methyl isobutyl ketone	120		0.30	4.0
Toluene	63		0.12	2.0
1,1,2-Trichloroethane	64		0.40	2.0
Tetrachloroethene	80		0.10	2.0
Dibromochloromethane	95		0.080	2.0
1,2-Dibromoethane	12		0.040	2.0
Chlorobenzene	10		0.080	2.0
1,1,1,2-Tetrachloroethane	2.0	U	0.14	2.0
Ethylbenzene	36		0.20	2.0
Styrene	53		0.080	2.0
Bromoform	38		0.12	2.0
Isopropylbenzene	2.0	U	0.080	2.0
trans-1,4-Dichloro-2-butene	4.0	U *	0.64	4.0
1,1,2,2-Tetrachloroethane	52		0.14	2.0
1,3,5-Trimethylbenzene	2.0	U	0.10	2.0
tert-Butylbenzene	2.0	U	0.12	2.0
1,2,4-Trimethylbenzene	2.0	U	0.080	2.0
sec-Butylbenzene	2.0	U	0.060	2.0
1,3-Dichlorobenzene	9.4		0.12	2.0
4-Isopropyltoluene	2.0	U	0.060	2.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316378

Lab Sample ID: 220-4404-11
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/24/2008 1636
Date Prepared: 03/24/2008 1636

Analysis Batch: 220-14387
Run Type: DL

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3277.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	52		0.10	2.0
n-Butylbenzene	2.0	U	0.14	2.0
1,2-Dichlorobenzene	71		0.16	2.0
1,2-Dibromo-3-Chloropropane	12		0.32	2.0
1,2,4-Trichlorobenzene	2.0	U	0.12	2.0
Acrolein	20	U	1.1	20
Acetonitrile	10	U	1.8	10
1,2-Dichloropropane	84		0.040	2.0
Bromodichloromethane	40		0.40	2.0
N-Propylbenzene	2.0	U	0.12	2.0
Xylenes, Total	4.0	U	0.16	4.0
cis-1,3-Dichloropropene	2.0	U	0.12	2.0
trans-1,3-Dichloropropene	2.0	U	0.080	2.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	53 - 125
4-Bromofluorobenzene	84	73 - 127
Dibromofluoromethane	98	54 - 137
Toluene-d8 (Surr)	82	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316372

Lab Sample ID: 220-4404-1
Client Matrix: Water

Date Sampled: 03/11/2008 1040
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1602
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685048.d
Initial Weight/Volume: 910 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.55	U	0.079	0.55
PCB-1221	1.1	U	0.25	1.1
PCB-1232	0.55	U	0.12	0.55
PCB-1242	0.55	U	0.13	0.55
PCB-1248	0.55	U	0.16	0.55
PCB-1254	0.55	U	0.041	0.55
PCB-1260	0.55	U	0.070	0.55
PCB-1262	0.55	U	0.14	0.55
PCB-1268	0.55	U	0.065	0.55

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	75	M	29 - 156
Tetrachloro-m-xylene	71	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316373

Lab Sample ID: 220-4404-2
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1619
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685049.d
Initial Weight/Volume: 910 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.55	U	0.079	0.55
PCB-1221	1.1	U	0.25	1.1
PCB-1232	0.55	U	0.12	0.55
PCB-1242	0.55	U	0.13	0.55
PCB-1248	0.55	U	0.16	0.55
PCB-1254	0.55	U	0.041	0.55
PCB-1260	0.55	U	0.070	0.55
PCB-1262	0.55	U	0.14	0.55
PCB-1268	0.55	U	0.065	0.55

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	106	M	29 - 156
Tetrachloro-m-xylene	97	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316374

Lab Sample ID: 220-4404-3
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1636
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685050.d
Initial Weight/Volume: 910 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.55	U	0.079	0.55
PCB-1221	1.1	U	0.25	1.1
PCB-1232	0.55	U	0.12	0.55
PCB-1242	0.55	U	0.13	0.55
PCB-1248	0.55	U	0.16	0.55
PCB-1254	0.55	U	0.041	0.55
PCB-1260	0.55	U	0.070	0.55
PCB-1262	0.55	U	0.14	0.55
PCB-1268	0.55	U	0.065	0.55

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	35	M	29 - 156
Tetrachloro-m-xylene	44	M *	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316368

Lab Sample ID: 220-4404-4
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1652
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685051.d
Initial Weight/Volume: 920 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.54	U	0.078	0.54
PCB-1221	1.1	U	0.25	1.1
PCB-1232	0.54	U	0.12	0.54
PCB-1242	0.54	U	0.12	0.54
PCB-1248	0.54	U	0.16	0.54
PCB-1254	0.54	U	0.040	0.54
PCB-1260	0.54	U	0.070	0.54
PCB-1262	0.54	U	0.14	0.54
PCB-1268	0.54	U	0.064	0.54

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	88	M	29 - 156
Tetrachloro-m-xylene	95	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316371

Lab Sample ID: 220-4404-5
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1709
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685052.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50
PCB-1262	0.50	U	0.13	0.50
PCB-1268	0.50	U	0.059	0.50

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	86	M	29 - 156
Tetrachloro-m-xylene	94	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316369

Lab Sample ID: 220-4404-6
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1726
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685053.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.54	U	0.077	0.54
PCB-1221	1.1	U	0.25	1.1
PCB-1232	0.54	U	0.11	0.54
PCB-1242	0.54	U	0.12	0.54
PCB-1248	0.54	U	0.16	0.54
PCB-1254	0.54	U	0.040	0.54
PCB-1260	0.54	U	0.069	0.54
PCB-1262	0.54	U	0.14	0.54
PCB-1268	0.54	U	0.063	0.54

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	100	M	29 - 156
Tetrachloro-m-xylene	88	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316370

Lab Sample ID: 220-4404-7
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1743
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685054.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.076	0.53
PCB-1221	1.1	U	0.24	1.1
PCB-1232	0.53	U	0.11	0.53
PCB-1242	0.53	U	0.12	0.53
PCB-1248	0.53	U	0.15	0.53
PCB-1254	0.53	U	0.039	0.53
PCB-1260	0.53	U	0.067	0.53
PCB-1262	0.53	U	0.14	0.53
PCB-1268	0.53	U	0.062	0.53

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	111	M	29 - 156
Tetrachloro-m-xylene	98	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316375

Lab Sample ID: 220-4404-8
Client Matrix: Water

Date Sampled: 03/11/2008 1425
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1759
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685055.d
Initial Weight/Volume: 890 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.56	U	0.081	0.56
PCB-1221	1.1	U	0.26	1.1
PCB-1232	0.56	U	0.12	0.56
PCB-1242	0.56	U	0.13	0.56
PCB-1248	0.56	U	0.16	0.56
PCB-1254	0.56	U	0.042	0.56
PCB-1260	0.56	U	0.072	0.56
PCB-1262	0.56	U	0.15	0.56
PCB-1268	0.56	U	0.066	0.56

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	80	M	29 - 156
Tetrachloro-m-xylene	96	M	53 - 144

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316378

Lab Sample ID: 220-4404-11
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1816
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4685056.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.076	0.53
PCB-1221	1.1	U	0.24	1.1
PCB-1232	0.53	U	0.11	0.53
PCB-1242	0.53	U	0.12	0.53
PCB-1248	0.53	U	0.15	0.53
PCB-1254	1.5	M	0.039	0.53
PCB-1260	0.53	U	0.067	0.53
PCB-1262	0.53	U	0.14	0.53
PCB-1268	0.53	U	0.062	0.53

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	91	M	29 - 156
Tetrachloro-m-xylene	84	M	53 - 144

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/19/2008 1816
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685056.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	91	M	29 - 156
Tetrachloro-m-xylene	83	M	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316372

Lab Sample ID: 220-4404-1
Client Matrix: Water

Date Sampled: 03/11/2008 1040
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 1745
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510105.d
Initial Weight/Volume: 920 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	170		46	110

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	145	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316373

Lab Sample ID: 220-4404-2
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 1812
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510106.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	100	J	45	110

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	130	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316374

Lab Sample ID: 220-4404-3
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 1839
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510107.d
Initial Weight/Volume: 910 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	110	U	46	110

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	131	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316368

Lab Sample ID: 220-4404-4
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 1906
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510108.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	110	U	45	110

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	115	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316371

Lab Sample ID: 220-4404-5
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 1933
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510109.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	140		45	110

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	127	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316369

Lab Sample ID: 220-4404-6
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 2001
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510110.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	1400	M	44	110

Surrogate	%Rec		Acceptance Limits
o-Terphenyl	115	M	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316370

Lab Sample ID: 220-4404-7
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 2027
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510111.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	420	M	44	110

Surrogate	%Rec		Acceptance Limits
o-Terphenyl	117	M	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316375

Lab Sample ID: 220-4404-8
Client Matrix: Water

Date Sampled: 03/11/2008 1425
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 2054
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510112.d
Initial Weight/Volume: 800 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	120	U	52	120

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	106	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316377

Lab Sample ID: 220-4404-10
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/20/2008 2121
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510113.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
CT ETPH	2800		45	110

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	102	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316372uf

Lab Sample ID: 220-4404-12
Client Matrix: Water

Date Sampled: 03/11/2008 1040
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1247
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	100		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	5.0	U	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 0954
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316373uf

Lab Sample ID: 220-4404-13
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1252
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	290		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	41		0.95	5.0
Copper	51		2.0	5.0
Nickel	49		0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 0955
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316374uf

Lab Sample ID: 220-4404-14
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1306
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	17		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	5.0	U	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 0956
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316368uf

Lab Sample ID: 220-4404-15
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1315
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	2.9	J	2.7	10
Silver	2.5	U	0.65	2.5
Barium	29		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	2.2	J	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 0957
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316371uf

Lab Sample ID: 220-4404-16
Client Matrix: Water

Date Sampled: 03/11/2008 1005
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1320
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	29		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	2.1	J	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 0958
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316369uf

Lab Sample ID: 220-4404-17
Client Matrix: Water

Date Sampled: 03/11/2008 1210
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1325
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	41		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	5.0	U	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 0959
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316370uf

Lab Sample ID: 220-4404-18
Client Matrix: Water

Date Sampled: 03/11/2008 1355
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1329
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	120		1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	2.6	J	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 1002
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316375uf

Lab Sample ID: 220-4404-19
Client Matrix: Water

Date Sampled: 03/11/2008 1425
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1334
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.7	10
Silver	2.5	U	0.65	2.5
Barium	2.5	U	1.2	2.5
Cadmium	2.5	U	0.55	2.5
Chromium	5.0	U	0.95	5.0
Copper	5.0	U	2.0	5.0
Nickel	5.0	U	0.95	5.0
Lead	5.0	U	2.4	5.0
Selenium	15	U	4.9	15
Zinc	25	U	6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 1003
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Client Sample ID: 1316378uf

Lab Sample ID: 220-4404-20
Client Matrix: Water

Date Sampled: 03/11/2008 1200
Date Received: 03/12/2008 1005

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/17/2008 1339
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138

Instrument ID: TJA Trace ICAP
Lab File ID: W031708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	560		2.7	10
Silver	310		0.65	2.5
Barium	990		1.2	2.5
Cadmium	140		0.55	2.5
Chromium	680		0.95	5.0
Copper	540		2.0	5.0
Nickel	790		0.95	5.0
Lead	230		2.4	5.0
Selenium	1000		4.9	15
Zinc	500		6.0	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/14/2008 1004
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	LCS or LCSD exceeds the control limits
	M	Manual integrated compound.
	B	The analyte was found in an associated blank, as well as in the sample.
GC Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	M	Manual integrated compound.
	*	Surrogate exceeds the control limit
Metals		
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-14387					
LCS 220-14387/2	Lab Control Spike	T	Water	8260B	
MB 220-14387/3	Method Blank	T	Water	8260B	
220-4404-1	1316372	T	Water	8260B	
220-4404-11DL	1316378	T	Water	8260B	
Analysis Batch:220-14397					
LCS 220-14397/2	Lab Control Spike	T	Water	8260B	
MB 220-14397/3	Method Blank	T	Water	8260B	
220-4404-3	1316374	T	Water	8260B	
220-4404-7	1316370	T	Water	8260B	
220-4404-8	1316375	T	Water	8260B	
220-4404-9TB	1316376	T	Water	8260B	
220-4404-11	1316378	T	Water	8260B	
Analysis Batch:220-14452					
LCS 220-14452/2	Lab Control Spike	T	Water	8260B	
MB 220-14452/3	Method Blank	T	Water	8260B	
220-4404-2	1316373	T	Water	8260B	
220-4404-4	1316368	T	Water	8260B	
220-4404-5	1316371	T	Water	8260B	
220-4404-6	1316369	T	Water	8260B	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 220-14222					
LCS 220-14222/3-A	Lab Control Spike	T	Water	3510C	
MB 220-14222/1-A	Method Blank	T	Water	3510C	
220-4404-1	1316372	T	Water	3510C	
220-4404-2	1316373	T	Water	3510C	
220-4404-3	1316374	T	Water	3510C	
220-4404-4	1316368	T	Water	3510C	
220-4404-5	1316371	T	Water	3510C	
220-4404-6	1316369	T	Water	3510C	
220-4404-7	1316370	T	Water	3510C	
220-4404-8	1316375	T	Water	3510C	
220-4404-11	1316378	T	Water	3510C	
Prep Batch: 220-14258					
LCS 220-14258/2-A	Lab Control Spike	T	Water	3510C	
MB 220-14258/1-A	Method Blank	T	Water	3510C	
220-4404-1	1316372	T	Water	3510C	
220-4404-2	1316373	T	Water	3510C	
220-4404-3	1316374	T	Water	3510C	
220-4404-4	1316368	T	Water	3510C	
220-4404-5	1316371	T	Water	3510C	
220-4404-6	1316369	T	Water	3510C	
220-4404-7	1316370	T	Water	3510C	
220-4404-8	1316375	T	Water	3510C	
220-4404-10	1316377	T	Water	3510C	
Analysis Batch:220-14317					
LCS 220-14222/3-A	Lab Control Spike	T	Water	8082	220-14222
MB 220-14222/1-A	Method Blank	T	Water	8082	220-14222
220-4404-1	1316372	T	Water	8082	220-14222
220-4404-2	1316373	T	Water	8082	220-14222
220-4404-3	1316374	T	Water	8082	220-14222
220-4404-4	1316368	T	Water	8082	220-14222
220-4404-5	1316371	T	Water	8082	220-14222
220-4404-6	1316369	T	Water	8082	220-14222
220-4404-7	1316370	T	Water	8082	220-14222
220-4404-8	1316375	T	Water	8082	220-14222
220-4404-11	1316378	T	Water	8082	220-14222

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:220-14353					
LCS 220-14258/2-A	Lab Control Spike	T	Water	CT ETPH	220-14258
MB 220-14258/1-A	Method Blank	T	Water	CT ETPH	220-14258
220-4404-1	1316372	T	Water	CT ETPH	220-14258
220-4404-2	1316373	T	Water	CT ETPH	220-14258
220-4404-3	1316374	T	Water	CT ETPH	220-14258
220-4404-4	1316368	T	Water	CT ETPH	220-14258
220-4404-5	1316371	T	Water	CT ETPH	220-14258
220-4404-6	1316369	T	Water	CT ETPH	220-14258
220-4404-7	1316370	T	Water	CT ETPH	220-14258
220-4404-8	1316375	T	Water	CT ETPH	220-14258
220-4404-10	1316377	T	Water	CT ETPH	220-14258

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-14138					
LCS 220-14138/2-A	Lab Control Spike	T	Water	3010A	
MB 220-14138/1-A	Method Blank	T	Water	3010A	
220-4404-12	1316372uf	T	Water	3010A	
220-4404-13	1316373uf	T	Water	3010A	
220-4404-14	1316374uf	T	Water	3010A	
220-4404-15	1316368uf	T	Water	3010A	
220-4404-16	1316371uf	T	Water	3010A	
220-4404-17	1316369uf	T	Water	3010A	
220-4404-18	1316370uf	T	Water	3010A	
220-4404-19	1316375uf	T	Water	3010A	
220-4404-20	1316378uf	T	Water	3010A	
Prep Batch: 220-14143					
LCS 220-14143/2-A	Lab Control Spike	T	Water	7470A	
MB 220-14143/1-A	Method Blank	T	Water	7470A	
220-4404-12	1316372uf	T	Water	7470A	
220-4404-13	1316373uf	T	Water	7470A	
220-4404-14	1316374uf	T	Water	7470A	
220-4404-15	1316368uf	T	Water	7470A	
220-4404-16	1316371uf	T	Water	7470A	
220-4404-17	1316369uf	T	Water	7470A	
220-4404-18	1316370uf	T	Water	7470A	
220-4404-19	1316375uf	T	Water	7470A	
220-4404-20	1316378uf	T	Water	7470A	
Analysis Batch:220-14151					
LCS 220-14143/2-A	Lab Control Spike	T	Water	7470A	220-14143
MB 220-14143/1-A	Method Blank	T	Water	7470A	220-14143
220-4404-12	1316372uf	T	Water	7470A	220-14143
220-4404-13	1316373uf	T	Water	7470A	220-14143
220-4404-14	1316374uf	T	Water	7470A	220-14143
220-4404-15	1316368uf	T	Water	7470A	220-14143
220-4404-16	1316371uf	T	Water	7470A	220-14143
220-4404-17	1316369uf	T	Water	7470A	220-14143
220-4404-18	1316370uf	T	Water	7470A	220-14143
220-4404-19	1316375uf	T	Water	7470A	220-14143
220-4404-20	1316378uf	T	Water	7470A	220-14143

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:220-14232					
LCS 220-14138/2-A	Lab Control Spike	T	Water	6010B	220-14138
MB 220-14138/1-A	Method Blank	T	Water	6010B	220-14138
220-4404-12	1316372uf	T	Water	6010B	220-14138
220-4404-13	1316373uf	T	Water	6010B	220-14138
220-4404-14	1316374uf	T	Water	6010B	220-14138
220-4404-15	1316368uf	T	Water	6010B	220-14138
220-4404-16	1316371uf	T	Water	6010B	220-14138
220-4404-17	1316369uf	T	Water	6010B	220-14138
220-4404-18	1316370uf	T	Water	6010B	220-14138
220-4404-19	1316375uf	T	Water	6010B	220-14138
220-4404-20	1316378uf	T	Water	6010B	220-14138

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS (Low Level)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCE %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-4404-1	1316372	109	80	96	83
220-4404-2	1316373	97	89	98	86
220-4404-3	1316374	89	85	92	81
220-4404-4	1316368	89	86	90	82
220-4404-5	1316371	91	86	92	83
220-4404-6	1316369	92	86	93	88
220-4404-7	1316370	94	87	95	84
220-4404-8	1316375	90	85	94	81
220-4404-9	1316376	94	84	97	83
220-4404-11	1316378	84	79	85	79
220-4404-11 DL	1316378 DL	114	84	98	82
MB 220-14387/3		100	85	89	86
MB 220-14397/3		83	86	83	85
MB 220-14452/3		88	85	87	84
LCS 220-14387/2		97	82	91	86
LCS 220-14397/2		77	78	81	86
LCS 220-14452/2		81	78	83	87

Surrogate	Acceptance Limits
12DCE = 1,2-Dichloroethane-d4 (Surr)	53-125
BFB = 4-Bromofluorobenzene	73-127
DBFM = Dibromofluoromethane	54-137
TOL = Toluene-d8 (Surr)	63-121

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
220-4404-1	1316372		75M		71M
220-4404-2	1316373		106M		97M
220-4404-3	1316374		35M		44M *
220-4404-4	1316368		88M		95M
220-4404-5	1316371		86M		94M
220-4404-6	1316369		100M		88M
220-4404-7	1316370		111M		98M
220-4404-8	1316375		80M		96M
220-4404-11	1316378	91M	91M	84M	83M
MB 220-14222/1-A		83M	85M	91	88M
LCS 220-14222/3-A			85		103M

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	29-156
TCX = Tetrachloro-m-xylene	53-144

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Surrogate Recovery Report

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
220-4404-1	1316372	145
220-4404-2	1316373	130
220-4404-3	1316374	131
220-4404-4	1316368	115
220-4404-5	1316371	127
220-4404-6	1316369	115M
220-4404-7	1316370	117M
220-4404-8	1316375	106
220-4404-10	1316377	102
MB 220-14258/1-A		110
LCS 220-14258/2-A		104

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	68-164

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14387

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-14387/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2008 0938
Date Prepared: 03/24/2008 0938

Analysis Batch: 220-14387
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3263.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	0.13	J	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14387

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-14387/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2008 0938
Date Prepared: 03/24/2008 0938

Analysis Batch: 220-14387
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3263.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	89	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Control Spike - Batch: 220-14387

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-14387/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2008 0908
Date Prepared: 03/24/2008 0908

Analysis Batch: 220-14387
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3262.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	15.9	159	60 - 140	*
Chloromethane	10.0	11.7	117	43 - 134	
Vinyl chloride	10.0	11.5	115	51 - 139	
Bromomethane	10.0	11.8	118	27 - 171	
Chloroethane	10.0	13.3	133	53 - 167	
Trichlorofluoromethane	10.0	12.5	125	60 - 140	
1,1-Dichloroethene	10.0	12.8	128	57 - 137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.2	122	60 - 140	
Carbon disulfide	10.0	12.0	120	44 - 142	
Acetone	10.0	19.4	194	18 - 263	
Methylene Chloride	10.0	10.5	105	61 - 129	
trans-1,2-Dichloroethene	10.0	10.6	106	57 - 129	
Acrylonitrile	20.0	18.6	93	60 - 140	
Methyl tert-butyl ether	10.0	10.4	104	60 - 140	
1,1-Dichloroethane	10.0	10.6	106	67 - 121	
cis-1,2-Dichloroethene	10.0	10.3	103	65 - 120	
Methyl Ethyl Ketone	10.0	15.3	153	30 - 222	
Chloroform	10.0	10.6	106	70 - 124	
Tetrahydrofuran	20.0	20.5	102	60 - 140	
1,1,1-Trichloroethane	10.0	11.6	116	60 - 128	
Carbon tetrachloride	10.0	10.9	109	56 - 131	
Benzene	10.0	10.3	103	68 - 126	
1,2-Dichloroethane	10.0	11.6	116	68 - 124	
Trichloroethene	10.0	10.1	101	58 - 125	
methyl isobutyl ketone	10.0	9.96	100	61 - 140	
Toluene	10.0	10.2	102	70 - 116	
1,1,2-Trichloroethane	10.0	10.1	101	70 - 119	
Tetrachloroethene	10.0	9.68	97	62 - 118	
Dibromochloromethane	10.0	10.5	105	65 - 114	
1,2-Dibromoethane	10.0	9.57	96	60 - 140	
Chlorobenzene	10.0	9.74	97	71 - 114	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	60 - 140	
Ethylbenzene	10.0	9.81	98	71 - 115	
Styrene	10.0	8.89	89	69 - 112	
Bromoform	10.0	10.0	100	63 - 115	
Isopropylbenzene	10.0	9.42	94	60 - 140	
trans-1,4-Dichloro-2-butene	20.0	32.7	163	60 - 140	*
1,1,2,2-Tetrachloroethane	10.0	9.67	97	66 - 129	
1,3,5-Trimethylbenzene	10.0	9.84	98	60 - 140	
tert-Butylbenzene	10.0	9.49	95	60 - 140	
1,2,4-Trimethylbenzene	10.0	10.3	103	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Control Spike - Batch: 220-14387

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-14387/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2008 0908
Date Prepared: 03/24/2008 0908

Analysis Batch: 220-14387
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: Y3262.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
sec-Butylbenzene	10.0	10.2	102	60 - 140	
1,3-Dichlorobenzene	10.0	9.58	96	70 - 115	
4-Isopropyltoluene	10.0	9.52	95	60 - 140	
1,4-Dichlorobenzene	10.0	9.31	93	75 - 119	
n-Butylbenzene	10.0	9.55	96	60 - 140	
1,2-Dichlorobenzene	10.0	9.72	97	75 - 120	
1,2-Dibromo-3-Chloropropane	10.0	8.52	85	60 - 140	
1,2,4-Trichlorobenzene	10.0	9.07	91	60 - 140	
1,2-Dichloropropane	10.0	10.3	103	69 - 122	
Bromodichloromethane	10.0	10.7	107	67 - 118	
N-Propylbenzene	10.0	10.1	101	60 - 140	
Xylenes, Total	30.0	30.3	101	66 - 118	
cis-1,3-Dichloropropene	10.0	10.0	100	60 - 122	
trans-1,3-Dichloropropene	10.0	10.4	104	55 - 126	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	53 - 125
4-Bromofluorobenzene	82	73 - 127
Dibromofluoromethane	91	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14397

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-14397/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 2231
Date Prepared: 03/21/2008 2231

Analysis Batch: 220-14397
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4905.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	1.2	J M	0.49	5.0
Methylene Chloride	0.76	J	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14397

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-14397/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 2231
Date Prepared: 03/21/2008 2231

Analysis Batch: 220-14397
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4905.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	83	54 - 137
Toluene-d8 (Surr)	85	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Control Spike - Batch: 220-14397

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-14397/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 2138
Date Prepared: 03/21/2008 2138

Analysis Batch: 220-14397
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4903.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	10.6	106	60 - 140	
Chloromethane	10.0	13.4	134	43 - 134	
Vinyl chloride	10.0	10.1	101	51 - 139	
Bromomethane	10.0	8.00	80	27 - 171	
Chloroethane	10.0	6.94	69	53 - 167	
Trichlorofluoromethane	10.0	6.86	69	60 - 140	
1,1-Dichloroethene	10.0	11.2	112	57 - 137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.78	98	60 - 140	
Carbon disulfide	10.0	11.2	112	44 - 142	
Acetone	10.0	9.94	99	18 - 263	
Methylene Chloride	10.0	10.9	109	61 - 129	
trans-1,2-Dichloroethene	10.0	9.97	100	57 - 129	
Acrylonitrile	20.0	22.1	110	60 - 140	
Methyl tert-butyl ether	10.0	7.96	80	60 - 140	
1,1-Dichloroethane	10.0	10.2	102	67 - 121	
cis-1,2-Dichloroethene	10.0	9.42	94	65 - 120	
Methyl Ethyl Ketone	10.0	9.82	98	30 - 222	
Chloroform	10.0	9.31	93	70 - 124	
Tetrahydrofuran	20.0	20.7	104	60 - 140	
1,1,1-Trichloroethane	10.0	8.41	84	60 - 128	
Carbon tetrachloride	10.0	8.43	84	56 - 131	
Benzene	10.0	10.9	109	68 - 126	
1,2-Dichloroethane	10.0	9.01	90	68 - 124	
Trichloroethene	10.0	9.09	91	58 - 125	
methyl isobutyl ketone	10.0	9.28	93	61 - 140	
Toluene	10.0	10.4	104	70 - 116	
1,1,2-Trichloroethane	10.0	10.1	101	70 - 119	
Tetrachloroethene	10.0	8.38	84	62 - 118	
Dibromochloromethane	10.0	8.67	87	65 - 114	
1,2-Dibromoethane	10.0	9.19	92	60 - 140	
Chlorobenzene	10.0	9.59	96	71 - 114	
1,1,1,2-Tetrachloroethane	10.0	8.87	89	60 - 140	
Ethylbenzene	10.0	9.71	97	71 - 115	
Styrene	10.0	8.17	82	69 - 112	
Bromoform	10.0	8.08	81	63 - 115	
Isopropylbenzene	10.0	8.27	83	60 - 140	
trans-1,4-Dichloro-2-butene	20.0	28.4	142	60 - 140	*
1,1,2,2-Tetrachloroethane	10.0	11.4	114	66 - 129	
1,3,5-Trimethylbenzene	10.0	9.07	91	60 - 140	
tert-Butylbenzene	10.0	8.06	81	60 - 140	
1,2,4-Trimethylbenzene	10.0	9.48	95	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Control Spike - Batch: 220-14397

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-14397/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 2138
Date Prepared: 03/21/2008 2138

Analysis Batch: 220-14397
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4903.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
sec-Butylbenzene	10.0	9.39	94	60 - 140	
1,3-Dichlorobenzene	10.0	9.61	96	70 - 115	
4-Isopropyltoluene	10.0	7.91	79	60 - 140	
1,4-Dichlorobenzene	10.0	9.29	93	75 - 119	
n-Butylbenzene	10.0	7.06	71	60 - 140	
1,2-Dichlorobenzene	10.0	9.18	92	75 - 120	
1,2-Dibromo-3-Chloropropane	10.0	8.46	85	60 - 140	
1,2,4-Trichlorobenzene	10.0	7.42	74	60 - 140	
1,2-Dichloropropane	10.0	10.9	109	69 - 122	
Bromodichloromethane	10.0	8.96	90	67 - 118	
N-Propylbenzene	10.0	9.79	98	60 - 140	
Xylenes, Total	30.0	27.9	93	66 - 118	
cis-1,3-Dichloropropene	10.0	8.54	85	60 - 122	
trans-1,3-Dichloropropene	10.0	9.04	90	55 - 126	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	77	53 - 125
4-Bromofluorobenzene	78	73 - 127
Dibromofluoromethane	81	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14452

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-14452/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 1002
Date Prepared: 03/21/2008 1002

Analysis Batch: 220-14452
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4878.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	0.60	J M	0.49	5.0
Methylene Chloride	0.76	J	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	0.12	J M	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14452

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-14452/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 1002
Date Prepared: 03/21/2008 1002

Analysis Batch: 220-14452
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4878.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	87	54 - 137
Toluene-d8 (Surr)	84	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Control Spike - Batch: 220-14452

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-14452/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 0909
Date Prepared: 03/21/2008 0909

Analysis Batch: 220-14452
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4876.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	13.8	138	60 - 140	
Chloromethane	10.0	15.1	151	43 - 134	*
Vinyl chloride	10.0	12.7	127	51 - 139	
Bromomethane	10.0	9.22	92	27 - 171	
Chloroethane	10.0	7.98	80	53 - 167	
Trichlorofluoromethane	10.0	8.85	88	60 - 140	
1,1-Dichloroethene	10.0	12.6	126	57 - 137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.4	114	60 - 140	
Carbon disulfide	10.0	12.8	128	44 - 142	
Acetone	10.0	15.1	151	18 - 263	
Methylene Chloride	10.0	11.6	116	61 - 129	
trans-1,2-Dichloroethene	10.0	11.0	110	57 - 129	
Acrylonitrile	20.0	22.5	112	60 - 140	
Methyl tert-butyl ether	10.0	8.55	85	60 - 140	
1,1-Dichloroethane	10.0	11.2	112	67 - 121	
cis-1,2-Dichloroethene	10.0	10.2	102	65 - 120	
Methyl Ethyl Ketone	10.0	13.9	139	30 - 222	
Chloroform	10.0	10.3	103	70 - 124	
Tetrahydrofuran	20.0	21.1	106	60 - 140	
1,1,1-Trichloroethane	10.0	9.86	99	60 - 128	
Carbon tetrachloride	10.0	9.87	99	56 - 131	
Benzene	10.0	11.9	119	68 - 126	
1,2-Dichloroethane	10.0	10.1	101	68 - 124	
Trichloroethene	10.0	10.2	102	58 - 125	
methyl isobutyl ketone	10.0	9.56	96	61 - 140	
Toluene	10.0	11.4	114	70 - 116	
1,1,2-Trichloroethane	10.0	10.9	109	70 - 119	
Tetrachloroethene	10.0	9.62	96	62 - 118	
Dibromochloromethane	10.0	9.29	93	65 - 114	
1,2-Dibromoethane	10.0	9.82	98	60 - 140	
Chlorobenzene	10.0	10.5	105	71 - 114	
1,1,1,2-Tetrachloroethane	10.0	10.1	101	60 - 140	
Ethylbenzene	10.0	10.9	109	71 - 115	
Styrene	10.0	9.01	90	69 - 112	
Bromoform	10.0	8.90	89	63 - 115	
Isopropylbenzene	10.0	9.19	92	60 - 140	
trans-1,4-Dichloro-2-butene	20.0	30.1	150	60 - 140	*
1,1,2,2-Tetrachloroethane	10.0	12.0	120	66 - 129	
1,3,5-Trimethylbenzene	10.0	10.0	100	60 - 140	
tert-Butylbenzene	10.0	8.97	90	60 - 140	
1,2,4-Trimethylbenzene	10.0	10.6	106	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Lab Control Spike - Batch: 220-14452

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-14452/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2008 0909
Date Prepared: 03/21/2008 0909

Analysis Batch: 220-14452
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W4876.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
sec-Butylbenzene	10.0	10.7	107	60 - 140	
1,3-Dichlorobenzene	10.0	10.3	103	70 - 115	
4-Isopropyltoluene	10.0	9.01	90	60 - 140	
1,4-Dichlorobenzene	10.0	10.1	101	75 - 119	
n-Butylbenzene	10.0	8.08	81	60 - 140	
1,2-Dichlorobenzene	10.0	9.86	99	75 - 120	
1,2-Dibromo-3-Chloropropane	10.0	8.03	80	60 - 140	
1,2,4-Trichlorobenzene	10.0	8.14	81	60 - 140	
1,2-Dichloropropane	10.0	11.6	116	69 - 122	
Bromodichloromethane	10.0	10.1	101	67 - 118	
N-Propylbenzene	10.0	10.9	109	60 - 140	
Xylenes, Total	30.0	31.2	104	66 - 118	
cis-1,3-Dichloropropene	10.0	9.45	94	60 - 122	
trans-1,3-Dichloropropene	10.0	9.91	99	55 - 126	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81	53 - 125
4-Bromofluorobenzene	78	73 - 127
Dibromofluoromethane	83	54 - 137
Toluene-d8 (Surr)	87	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14222

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 220-14222/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 1529
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4685046.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50
PCB-1262	0.50	U	0.13	0.50
PCB-1268	0.50	U	0.059	0.50

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	83	M	29 - 156
Tetrachloro-m-xylene	91		53 - 144

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	85	M	29 - 156
Tetrachloro-m-xylene	88	M	53 - 144

Lab Control Spike - Batch: 220-14222

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 220-14222/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 1545
Date Prepared: 03/17/2008 1807

Analysis Batch: 220-14317
Prep Batch: 220-14222
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4685047.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.99	100	50 - 122	M

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	85		29 - 156

Surrogate	% Rec		Acceptance Limits
Tetrachloro-m-xylene	103	M	53 - 144

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14258

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: MB 220-14258/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2008 1338
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510096.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
CT ETPH	100	U	42	100

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	110	68 - 164

Lab Control Spike - Batch: 220-14258

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: LCS 220-14258/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2008 1406
Date Prepared: 03/18/2008 1620

Analysis Batch: 220-14353
Prep Batch: 220-14258
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2510097.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
CT ETPH	1500	1320	88	62 - 143	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	104	68 - 164

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14138

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-14138/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/17/2008 1129
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W031708
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	20	U	5.4	20
Silver	5.0	U	1.3	5.0
Barium	5.0	U	2.3	5.0
Cadmium	5.0	U	1.1	5.0
Chromium	10	U	1.9	10
Copper	10	U	3.9	10
Nickel	10	U	1.9	10
Lead	6.6	J	4.9	10
Selenium	30	U	9.8	30
Zinc	50	U	12	50

Lab Control Spike - Batch: 220-14138

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 220-14138/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/17/2008 1133
Date Prepared: 03/13/2008 1130

Analysis Batch: 220-14232
Prep Batch: 220-14138
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W031708
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	1070	107	80 - 120	
Silver	300	314	105	80 - 120	
Barium	300	315	105	80 - 120	
Cadmium	300	328	109	80 - 120	
Chromium	300	335	112	80 - 120	
Copper	300	315	105	80 - 120	
Nickel	300	327	109	80 - 120	
Lead	1000	1070	107	80 - 120	
Selenium	500	541	108	80 - 120	
Zinc	300	337	112	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
Sdg Number: 220-4404

Method Blank - Batch: 220-14143

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 220-14143/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/14/2008 0937
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.090	0.20

Lab Control Spike - Batch: 220-14143

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 220-14143/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/14/2008 0938
Date Prepared: 03/13/2008 1200

Analysis Batch: 220-14151
Prep Batch: 220-14143
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.04	101	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: STL-INC
Lab Code: STL-INC
Instrument: hp5890-2c.i
Column: RTX-1 ID: 0.53
Sample No. (Alkane): DRO44-4
Lab File ID: C2510092.d

Case No: SDG No:
Sequence: \\consvr05\Files\chem\GC\hp5890-2c.i\c2510.b
Init. Calib Dates(s): 07-MAR-2008 13:56 07-MAR-2008 16:16
Date Analyzed: 20-MAR-2008 11:36

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.45	1.4	1.5	97843	89486	9.3
C10 n-decane	2.02	1.97	2.07	96617	89486	7.9
C11 n-undecane	2.57	2.52	2.62	94762	89486	5.8
C12 n-dodecane	3.09	3.04	3.14	94094	89486	5.1
C14 n-tetradecane	4.05	4	4.1	92007	89486	2.8
C16 n-hexadecane	4.9	4.85	4.95	91240	89486	1.9
C18 n-octadecane	5.66	5.61	5.71	90249	89486	0.8
C20 n-eicosane	6.36	6.31	6.41	89958	89486	0.5
C24 n-tetracosane	7.59	7.54	7.64	85290	89486	-4.6
C28 n-octacosane	8.64	8.59	8.69	82214	89486	-8.1
C32 n-dotriacontane	9.56	9.51	9.61	82266	89486	-8
C36 n-hexatriacontane	10.46	10.41	10.51	77292	89486	-13.6

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: STL Connecticut
Lab Code: STL Connecticut
Instrument: hp5890-2c.i
Column: RTX-1 ID: 0.53
Sample No. (Alkane): DRO44-4
Lab File ID: C2510115.d

Case No: SDG No:
Sequence: \\consvr05\Files\chem\GC\hp5890-2c.i\c2510092.B
Init. Calib Dates(s): 07-MAR-2008 13:56 07-MAR-2008 16:16
Date Analyzed: 20-MAR-2008 22:43

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.45	1.4	1.5	105659	93557	12.9
C10 n-decane	2.01	1.96	2.06	101305	93557	8.2
C11 n-undecane	2.57	2.52	2.62	98303	93557	5
C12 n-dodecane	3.09	3.04	3.14	97478	93557	4.1
C14 n-tetradecane	4.04	3.99	4.09	94782	93557	1.3
C16 n-hexadecane	4.89	4.84	4.94	94081	93557	0.5
C18 n-octadecane	5.66	5.61	5.71	93329	93557	-0.2
C20 n-eicosane	6.35	6.3	6.4	92771	93557	-0.8
C24 n-tetracosane	7.58	7.53	7.63	88721	93557	-5.1
C28 n-octacosane	8.63	8.58	8.68	86181	93557	-7.8
C32 n-dotriacontane	9.55	9.5	9.6	86434	93557	-7.6
C36 n-hexatriacontane	10.45	10.4	10.5	83641	93557	-10.5

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

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4404

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assc	Rick Brainerd	3/11/08	011032

Address	Telephone Number (Area Code)/Fax Number/e-mail address	Field Telephone Number	Page 1 of 3
100 North West Drive	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		Jill D

Project Name and Location (State): P&W East Hartford Ct

Sample Disposal: ☐ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: ~~KB/2007-606~~ #22001162 88UT709

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	PCB's	ETPH	VOC's	Metals (Cu Ni, Zn, Cr, Ra, Ag)						Comments
1316372 (01)	3/11/08	10:40	✓			4							✓	✓								
1316372	3/11/08	10:40	✓						2						✓							
MC 1316372uf (12)	3/11/08	10:40	✓					1								✓						
1316373 (02)	3/11/08	12:10	✓			4							✓	✓								
1316373	3/11/08	12:10	✓						2						✓							
1316373uf (13)	3/11/08	12:10	✓					1								✓						
1316374 (03)	3/11/08	13:55	✓			4							✓	✓								
1316374	3/11/08	13:55	✓						2						✓							
1316374uf (14)	3/11/08	13:55	✓					1								✓						

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

	Date	Time		Date	Time
1. Relinquished By: Scott Brown	3/11/08	1600	1. Received By: REA Sample Fridge	3/11/08	1600
2. Relinquished By: Rick J Brainerd	3/12/08	0850	2. Received By: Richard L J Red	3/12/08	0850
3. Received By: K Blockin	3/12/08	1005	Cooler Temps: 0.4°C, 0.6°C, 1.2°C, 1.4°C	Passed Rad. Screen (Lab Use Only): ☑ Yes ☐ No	

Comments: extra trip blank, not used, also included

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

04/02/2008

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
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4404

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
LEA	Rick Brainerd	3/11/08	011033

Address	Telephone Number (Area Code)/Fax Number/e-mail address	Field Telephone Number	Page
100 Northwest Dr	(860) 410-3018		2 of 3

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06067		

Project Name and Location (State): P+W East Hartford CT

Sample Disposal: ☐ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: ~~KB/2007-606~~ 88UT709 #22001162

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other ICE	VOC	PCB	ETPH	Metals (uf)	RCRA+(Zn, Copper, Nickel)					Comments
1316368 UF 04	3/11/08	10:05	X					1				X				X						
1316368			X						2				X									
1316368			X			4								X	X							
1316371 uf 05			X					1								X						
1316371			X						2				X									
1316371			X			4								X	X							
1316369 uf 17 06		12:10	X					1								X						
1316369			X						2				X									
1316369			X			4								X	X							
1316370 uf 18 07		13:55	X					1				X				X						

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

	Date	Time		Date	Time
1. Relinquished By: Nathan Emmons	3/11/08	1600	1. Received By: LEA Sample Fridge	3/11/08	1600
2. Relinquished By: [signature]	3/12/08	0852	2. Received By: Richard L Ford	3/12/08	0850
3. Received By: K Blockeu	3/12/08	1005	Cooler Temps: 0.4°C, 0.6°C, 1.2°C, 1.4°C	Passed Rad. Screen (Lab Use Only): ☒ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

04/02/2008

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4404

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Rick Brainerd	3/11/08	011034
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page 3 of 3**
100 North West Drive	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	Ct	06062		

Project Name and Location (State): PKW East Hartford Ct

Contract/Purchase Order/Project No.: ~~KB/2007-606~~ #22001162 88UT709

Sample Disposal: ☐ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Analysis (Attach list if more space is needed): PCB's, ETPH, VOC's, Metals (Pb, Cr, Zn)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	PCB's	ETPH	VOC's	Metals (Pb, Cr, Zn)	Comments
1316375 (08)	3/11/08	14:25	X			4							✓	✓			
1316375	3/11/08	14:25	X						2						✓		
1316375vf (19)	3/11/08	14:25	X					1								✓	
1316376 (09)	3/11/08	14:35	X						2						✓		Trip Blank
1316370 (07)	3/11/08	13:55	X			4							✓	✓			
1316370	3/11/08	13:55	X						2						✓		
1316377 (10)	3/11/08	12:00	X			2								✓			
1316378 (11)	3/11/08	12:00	X			2							✓				
✓ 1316378	3/11/08	1200	X						3						✓		
1316378uf (20)	3/11/08	1200	X					1								✓	

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date	Time	1. Received By	Date	Time
Scott Brown	3/11/08	1600	LEA Sample Fridge	3/11/08	1600
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
[illegible]	3/12/08	0850	Richard L [illegible]	3/12/08	0850
3. Received By	**Date**	**Time**	**Cooler Temps**	**Passed Rad. Screen (Lab Use Only)**	
K Blackburn	3/12/08	1005	0.4°C, 0.6°C, 1.2°C, 1.4°C	☒ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

04/02/2008

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-4404-12	HNO3	<2	N/A	N/A	N/A	KB	3/19/08
13		<2					
14		<2					
15		<2					
16		<2					
17		<2					
18		<2					
19		<2					
220-4404-20	HNO3	<2	N/A	N/A	N/A	KB	3/19/08

3/19/08

TestAmerica Form# SMF00204.CT

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-4404-03	N/A	N/A	N/A	N/A	0	KB	3/12/08
03					0		
03					0		
04					0		
04					0		
04					0		
04					0		
05					0		
05					0		
05					0		
05					0		
06					0		
06					0		
06					0		
06					0		
07					0		
07					0		
220-4404-07	N/A	N/A	N/A	N/A	0	KB	3/12/08

TestAmerica Form# SMF00204.CT

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-4404- 01	HNO3	<2	N/A	N/A	N/A	KB	3/12/08
02		<2					
03		<2					
04		<2					
05		<2					
06		<2					
07		<2					
08		<2					
11	HNO3	<2			N/A		
01	N/A	N/A			0		
01					0		
01					0		
01					0		
02					0		
02					0		
02					0		
02					0		
220-4404-03	N/A	N/A	N/A	N/A	0	KB	3/12/08

TestAmerica Form# SMF00204.CT

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-4404-07	N/A	N/A	N/A	N/A	0	LB	3/12/08
08					0		
08					0		
08					0		
08					0		
10					0		
10					0		
11					0		
220-4404-11	N/A	N/A	N/A	N/A	0	LB	3/12/08

[illegible] 3/18/08

TestAmerica Form# SMF00204.CT

220-4404
LEA / Pratt + Whitney Rocky Hill

TestAmerica - Connecticut
Internal Chain-of-Custody

Trip Blank: ✓

QC: ✓ Air: ✓

FB: ✓

Soil: ✓ Water: #1-11, 12-20

Date Received: 3/12/08

Sample #s: 1-11, 12-20

Locations: 97C, R35I

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-11	KB	BC	3/13	1000	Mtl	JV	KB	3/13	1700
1-8, 11	KB	J.C.	3/17	12:00	EXT				
1-8 & 10	KB	[illegible]	3/18	15:50	Ext				
12-20	KB	BC	3/19	1000	Mtl	JV	KB	3/19	1455
1-3	KB	Blk	3/20	17:40	VOA	used			
1-5	KB	Blk	3/21	11:00	VOA	[illegible]			
~~5-7~~ 1,2,4,11 DH. 3/24/08	KB	D.H.	3/24/08	16:00	VOA	Used			

04/02/2008

TestAmerica Form# SMF00508.CT

Login Sample Receipt Check List

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-4404-1
SDG Number: 220-4404

Login Number: 4404
Creator: Blocker, Kristina
List Number: 1

List Source: TestAmerica Connecticut

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-5275-1

SDG Number: 220-5275

Job Description: Pratt & Whitney East Hartford, F&H Build

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Richard J Brainerd

Joan Widomski

Designee for
Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
07/01/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

Job Narrative
220-J5275-1

Comments
The following Connecticut Remediation Standard Regulations (CTRSRs) could not be achieved using TestAmerica Connecticut's routine reporting limits (RLs):

Groundwater/Surface Water - GWPC (µg/L)
Volatile 8260B Compounds - Acrylonitrile, Bromodichloromethane, Dibromochloromethane, 1,2-Dibromoethane, trans-1,4-Dichloro-2-butene, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, Hexachlorobutadiene, 1,1,2,2-Tetrachloroethane
Total Polychlorinated Biphenyls 8082
Metals 6010B Analyte -Arsenic
SemiVolatile 8270C Compounds - Aniline, Pentachloronitrobenzene, Pyridine, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol

Groundwater/Surface Water - SWPC (µg/L)
Total Polychlorinated Biphenyls 8082
SemiVolatile 8270C Compounds - Acenaphthene, Benzo[g,h,i]perylene, Hexachlorobenzene, Phenanthrene, Dibenz(a,h)anthracene

Groundwater/Surface Water - Proposed RES GWVC (µg/L)
Volatile 8260B Compound -1,2-Dibromoethane

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The laboratory control standard (LCS) for batch 16693 was outside CTRCP control limits for the following analytes: dichlorodifluoromethane at 145%, methylene chloride at 59%, n-butylbenzene at 62%.

Method(s) 8260B: The initial calibration curve analyzed on instrument MSW on 6/5/08 was outside CTRCP acceptance criteria for the following compounds with the %RSD as noted.:
dichlorodifluoromethane 21.8%
chloromethane 24.8%
bromomethane 34.8%
chloroethane 15.3%
trichlorofluoromethane 18.6%
acrolein 28.9%
methylene chloride 65.8%
acetone 23.9%
styrene 23.7%
trans-1,4-dichloro-2-butene 16.0%
1,2,4-trimethylbenzene 15.9%
n-butylbenzene 17.1%
1,2,4-trichlorobenzene 33.8%
4-bromofluorobenzene 18.5%

All volatile analyses were associated with this initial calibration.

Method(s) 8260B: The continuing calibration verification (CCV) analyzed on instrument MSW on 6/6/08 recovered above the CTRCP upper control limit with the following % difference as noted. All volatile samples were associated with this CCV.
methylene chloride at -46%

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG: 220-5275

Laboratory Chronicle

Lab ID: 220-5275-1 **Client ID: 1324112**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-1		220-16693		06/07/2008 01:22	1	TAL CT	BK
A:8260B	220-5275-E-1		220-16693		06/07/2008 01:22	1	TAL CT	BK
P:3510C	220-5275-A-1-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-A-1-A		220-16783	220-16629	06/10/2008 12:31	1	TAL CT	KS
P:3510C	220-5275-C-1-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-C-1-A		220-16806	220-16633	06/10/2008 15:26	1	TAL CT	SW

Lab ID: 220-5275-2 **Client ID: 1324112uf**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-2-A		220-16843	220-16824	06/12/2008 10:42	1	TAL CT	JFV
A:6010B	220-5275-A-2-A		220-16843	220-16824	06/12/2008 19:49	1	TAL CT	NP
P:7470A	220-5275-A-2-B		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-2-B		220-16888	220-16857	06/13/2008 11:56	1	TAL CT	JFV

Lab ID: 220-5275-2 MS **Client ID: 1324112uf**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	220-5275-A-2-D MS		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-2-D MS		220-16888	220-16857	06/13/2008 11:58	1	TAL CT	JFV

Lab ID: 220-5275-2 DU **Client ID: 1324112uf**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	220-5275-A-2-C DU		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-2-C DU		220-16888	220-16857	06/13/2008 11:57	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG: 220-5275

Laboratory Chronicle

Lab ID: 220-5275-3 **Client ID: 1324113**

Sample Date/Time: 06/03/2008 13:25 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-3		220-16693		06/07/2008 01:49	1	TAL CT	BK
A:8260B	220-5275-E-3		220-16693		06/07/2008 01:49	1	TAL CT	BK
P:3510C	220-5275-D-3-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-D-3-A		220-16783	220-16629	06/10/2008 12:47	1	TAL CT	KS
P:3510C	220-5275-C-3-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-C-3-A		220-16806	220-16633	06/10/2008 15:54	1	TAL CT	SW

Lab ID: 220-5275-4 **Client ID: 1324113uf**

Sample Date/Time: 06/03/2008 13:25 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-4-A		220-16843	220-16824	06/12/2008 10:42	1	TAL CT	JFV
A:6010B	220-5275-A-4-A		220-16843	220-16824	06/12/2008 19:55	1	TAL CT	NP
P:7470A	220-5275-A-4-B		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-4-B		220-16888	220-16857	06/13/2008 11:59	1	TAL CT	JFV

Lab ID: 220-5275-5 **Client ID: 1324114**

Sample Date/Time: 06/03/2008 15:15 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-5		220-16693		06/07/2008 02:15	1	TAL CT	BK
A:8260B	220-5275-E-5		220-16693		06/07/2008 02:15	1	TAL CT	BK
P:3510C	220-5275-A-5-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-A-5-A		220-16783	220-16629	06/10/2008 13:04	1	TAL CT	KS
P:3510C	220-5275-B-5-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-B-5-A		220-16806	220-16633	06/10/2008 16:22	1	TAL CT	SW

Lab ID: 220-5275-6 **Client ID: 1324114uf**

Sample Date/Time: 06/03/2008 15:15 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-6-A		220-16843	220-16824	06/12/2008 10:42	1	TAL CT	JFV
A:6010B	220-5275-A-6-A		220-16843	220-16824	06/12/2008 20:00	1	TAL CT	NP
P:7470A	220-5275-A-6-B		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-6-B		220-16888	220-16857	06/13/2008 12:00	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG: 220-5275

Laboratory Chronicle

Lab ID: 220-5275-7 **Client ID: 1324115**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-7		220-16693		06/07/2008 02:42	1	TAL CT	BK
A:8260B	220-5275-E-7		220-16693		06/07/2008 02:42	1	TAL CT	BK
P:3510C	220-5275-D-7-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-D-7-A		220-16783	220-16629	06/10/2008 13:21	1	TAL CT	KS
P:3510C	220-5275-A-7-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-A-7-A		220-16806	220-16633	06/10/2008 16:49	1	TAL CT	SW

Lab ID: 220-5275-8 **Client ID: 1324115uf**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-8-B		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	220-5275-A-8-B		220-17010	220-16884	06/17/2008 13:43	1	TAL CT	NP
P:7470A	220-5275-A-8-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-8-A		220-16888	220-16857	06/13/2008 12:04	1	TAL CT	JFV

Lab ID: 220-5275-9 **Client ID: 1324116**

Sample Date/Time: 06/03/2008 12:40 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-9		220-16693		06/07/2008 03:09	1	TAL CT	BK
A:8260B	220-5275-E-9		220-16693		06/07/2008 03:09	1	TAL CT	BK
P:3510C	220-5275-A-9-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-A-9-A		220-16783	220-16629	06/10/2008 13:38	1	TAL CT	KS
P:3510C	220-5275-C-9-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-C-9-A		220-16806	220-16633	06/10/2008 17:17	1	TAL CT	SW

Lab ID: 220-5275-10 **Client ID: 1324116uf**

Sample Date/Time: 06/03/2008 12:40 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-10-B		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	220-5275-A-10-B		220-17010	220-16884	06/17/2008 13:49	1	TAL CT	NP
P:7470A	220-5275-A-10-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-10-A		220-16888	220-16857	06/13/2008 12:04	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG: 220-5275

Laboratory Chronicle

Lab ID: 220-5275-11 **Client ID: 1324117**

Sample Date/Time: 06/03/2008 14:55 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-11		220-16693		06/07/2008 03:35	1	TAL CT	BK
A:8260B	220-5275-E-11		220-16693		06/07/2008 03:35	1	TAL CT	BK
P:3510C	220-5275-C-11-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-C-11-A		220-16783	220-16629	06/10/2008 13:55	1	TAL CT	KS
P:3510C	220-5275-B-11-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-B-11-A		220-16806	220-16633	06/10/2008 17:45	1	TAL CT	SW

Lab ID: 220-5275-12 **Client ID: 1324117uf**

Sample Date/Time: 06/03/2008 14:55 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-12-B		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	220-5275-A-12-B		220-17010	220-16884	06/17/2008 14:11	1	TAL CT	NP
P:7470A	220-5275-A-12-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-12-A		220-16888	220-16857	06/13/2008 12:05	1	TAL CT	JFV

Lab ID: 220-5275-13 **Client ID: 1324120**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-13		220-16693		06/07/2008 04:02	1	TAL CT	BK
A:8260B	220-5275-E-13		220-16693		06/07/2008 04:02	1	TAL CT	BK
P:3510C	220-5275-D-13-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-D-13-A		220-16783	220-16629	06/10/2008 14:11	1	TAL CT	KS
P:3510C	220-5275-B-13-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-B-13-A		220-16806	220-16633	06/10/2008 18:13	1	TAL CT	SW

Lab ID: 220-5275-14 **Client ID: 1324120uf**

Sample Date/Time: 06/03/2008 11:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-14-B		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	220-5275-A-14-B		220-17010	220-16884	06/17/2008 14:17	1	TAL CT	NP
P:7470A	220-5275-A-14-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-14-A		220-16888	220-16857	06/13/2008 12:06	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG: 220-5275

Laboratory Chronicle

Lab ID: 220-5275-15 **Client ID: 1324118**

Sample Date/Time: 06/03/2008 10:00 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-A-15		220-16693		06/07/2008 00:55	1	TAL CT	BK
A:8260B	220-5275-A-15		220-16693		06/07/2008 00:55	1	TAL CT	BK

Lab ID: 220-5275-16 **Client ID: 1324119**

Sample Date/Time: 06/03/2008 15:30 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-5275-E-16		220-16693		06/07/2008 04:29	1	TAL CT	BK
A:8260B	220-5275-E-16		220-16693		06/07/2008 04:29	1	TAL CT	BK
P:3510C	220-5275-D-16-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	220-5275-D-16-A		220-16783	220-16629	06/10/2008 14:28	1	TAL CT	KS
P:3510C	220-5275-C-16-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	220-5275-C-16-A		220-16806	220-16633	06/10/2008 18:40	1	TAL CT	SW

Lab ID: 220-5275-17 **Client ID: 1324119uf**

Sample Date/Time: 06/03/2008 15:30 Received Date/Time: 06/04/2008 18:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-5275-A-17-B		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	220-5275-A-17-B		220-17010	220-16884	06/17/2008 14:23	1	TAL CT	NP
P:7470A	220-5275-A-17-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	220-5275-A-17-A		220-16888	220-16857	06/13/2008 12:07	1	TAL CT	JFV

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-16693/3		220-16693		06/06/2008 20:29	1	TAL CT	BK
A:8260B	MB 220-16693/3		220-16693		06/06/2008 20:29	1	TAL CT	BK
P:3510C	MB 220-16629/1-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	MB 220-16629/1-A		220-16783	220-16629	06/10/2008 11:57	1	TAL CT	KS
P:3510C	MB 220-16633/1-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	MB 220-16633/1-A		220-16806	220-16633	06/10/2008 13:36	1	TAL CT	SW
P:3010A	MB 220-16824/1-A		220-16843	220-16824	06/12/2008 10:42	1	TAL CT	JFV
A:6010B	MB 220-16824/1-A		220-16843	220-16824	06/12/2008 18:40	1	TAL CT	NP
P:3010A	MB 220-16884/1-A		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	MB 220-16884/1-A		220-17010	220-16884	06/17/2008 17:34	1	TAL CT	NP
P:7470A	MB 220-16857/1-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	MB 220-16857/1-A		220-16888	220-16857	06/13/2008 11:39	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG: 220-5275

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-16693/2		220-16693		06/06/2008 19:24	1	TAL CT	BK
A:8260B	LCS 220-16693/2		220-16693		06/06/2008 19:24	1	TAL CT	BK
P:3510C	LCS 220-16629/2-A		220-16783	220-16629	06/06/2008 10:09	1	TAL CT	PHG
A:8082	LCS 220-16629/2-A		220-16783	220-16629	06/10/2008 12:14	1	TAL CT	KS
P:3510C	LCS 220-16633/2-A		220-16806	220-16633	06/06/2008 10:58	1	TAL CT	PHG
A:CT ETPH	LCS 220-16633/2-A		220-16806	220-16633	06/10/2008 14:03	1	TAL CT	SW
P:3010A	LCS 220-16824/2-A		220-16843	220-16824	06/12/2008 10:42	1	TAL CT	JFV
A:6010B	LCS 220-16824/2-A		220-16843	220-16824	06/12/2008 18:46	1	TAL CT	NP
P:3010A	LCS 220-16884/2-A		220-17010	220-16884	06/13/2008 11:31	1	TAL CT	MEC
A:6010B	LCS 220-16884/2-A		220-17010	220-16884	06/17/2008 17:40	1	TAL CT	NP
P:7470A	LCS 220-16857/2-A		220-16888	220-16857	06/12/2008 15:57	1	TAL CT	JFV
A:7470A	LCS 220-16857/2-A		220-16888	220-16857	06/13/2008 11:40	1	TAL CT	JFV

Lab References:
TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL CT	SW846 8260B	
Purge-and-Trap	TAL CT		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CT	SW846 8082	
Separatory Funnel Liquid-Liquid Extraction	TAL CT		SW846 3510C
CT Extractable Total Petroleum Hydrocarbons	TAL CT	STATE CT ETPH	
Separatory Funnel Liquid-Liquid Extraction	TAL CT		SW846 3510C
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL CT	SW846 6010B	
Acid Digestion of Aqueous Samples and Extracts for	TAL CT		SW846 3010A
Mercury in Liquid Waste (Manual Cold Vapor Technique)	TAL CT	SW846 7470A	
Mercury in Liquid Waste (Manual Cold Vapor	TAL CT		SW846 7470A

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

STATE = State of Connecticut Department of Public Health

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method	Analyst	Analyst ID
SW846 8260B	Kostrzewska, Barbara	BK
SW846 8082	Smith, Karli	KS
STATE CT ETPH	Widomski, Sarah	SW
SW846 6010B	Petronchak, Nestor	NP
SW846 7470A	Voytek, Joseph F	JFV

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-5275-1	1324112	Water	06/03/2008 1100	06/04/2008 1845
220-5275-2	1324112uf	Water	06/03/2008 1100	06/04/2008 1845
220-5275-3	1324113	Water	06/03/2008 1325	06/04/2008 1845
220-5275-4	1324113uf	Water	06/03/2008 1325	06/04/2008 1845
220-5275-5	1324114	Water	06/03/2008 1515	06/04/2008 1845
220-5275-6	1324114uf	Water	06/03/2008 1515	06/04/2008 1845
220-5275-7	1324115	Water	06/03/2008 1100	06/04/2008 1845
220-5275-8	1324115uf	Water	06/03/2008 1100	06/04/2008 1845
220-5275-9	1324116	Water	06/03/2008 1240	06/04/2008 1845
220-5275-10	1324116uf	Water	06/03/2008 1240	06/04/2008 1845
220-5275-11	1324117	Water	06/03/2008 1455	06/04/2008 1845
220-5275-12	1324117uf	Water	06/03/2008 1455	06/04/2008 1845
220-5275-13	1324120	Water	06/03/2008 1100	06/04/2008 1845
220-5275-14	1324120uf	Water	06/03/2008 1100	06/04/2008 1845
220-5275-15TB	1324118	Water	06/03/2008 1000	06/04/2008 1845
220-5275-16	1324119	Water	06/03/2008 1530	06/04/2008 1845
220-5275-17	1324119uf	Water	06/03/2008 1530	06/04/2008 1845

SAMPLE RESULTS

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324112

Lab Sample ID: 220-5275-1
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0122
Date Prepared: 06/07/2008 0122

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6460.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324112

Lab Sample ID: 220-5275-1
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0122
Date Prepared: 06/07/2008 0122

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6460.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	53 - 125
4-Bromofluorobenzene	92	73 - 127
Dibromofluoromethane	97	54 - 137
Toluene-d8 (Surr)	96	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324113

Lab Sample ID: 220-5275-3
Client Matrix: Water

Date Sampled: 06/03/2008 1325
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0149
Date Prepared: 06/07/2008 0149

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6461.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324113

Lab Sample ID: 220-5275-3
Client Matrix: Water

Date Sampled: 06/03/2008 1325
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0149
Date Prepared: 06/07/2008 0149

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6461.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	94	54 - 137
Toluene-d8 (Surr)	93	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324114

Lab Sample ID: 220-5275-5
Client Matrix: Water

Date Sampled: 06/03/2008 1515
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0215
Date Prepared: 06/07/2008 0215

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6462.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.2		0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.3		0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	54		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324114

Lab Sample ID: 220-5275-5
Client Matrix: Water

Date Sampled: 06/03/2008 1515
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0215
Date Prepared: 06/07/2008 0215

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6462.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	53 - 125
4-Bromofluorobenzene	87	73 - 127
Dibromofluoromethane	96	54 - 137
Toluene-d8 (Surr)	95	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324115

Lab Sample ID: 220-5275-7
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0242
Date Prepared: 06/07/2008 0242

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6463.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	5.3		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.5		0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324115

Lab Sample ID: 220-5275-7
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0242
Date Prepared: 06/07/2008 0242

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6463.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	97	54 - 137
Toluene-d8 (Surr)	94	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324116

Lab Sample ID: 220-5275-9
Client Matrix: Water

Date Sampled: 06/03/2008 1240
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0309
Date Prepared: 06/07/2008 0309

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6464.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	2.4		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324116

Lab Sample ID: 220-5275-9
Client Matrix: Water

Date Sampled: 06/03/2008 1240
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0309
Date Prepared: 06/07/2008 0309

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6464.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	53 - 125
4-Bromofluorobenzene	87	73 - 127
Dibromofluoromethane	98	54 - 137
Toluene-d8 (Surr)	95	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324117

Lab Sample ID: 220-5275-11
Client Matrix: Water

Date Sampled: 06/03/2008 1455
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0335
Date Prepared: 06/07/2008 0335

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6465.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.7		0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324117

Lab Sample ID: 220-5275-11
Client Matrix: Water

Date Sampled: 06/03/2008 1455
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0335
Date Prepared: 06/07/2008 0335

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6465.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	53 - 125
4-Bromofluorobenzene	91	73 - 127
Dibromofluoromethane	102	54 - 137
Toluene-d8 (Surr)	97	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324120

Lab Sample ID: 220-5275-13
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0402
Date Prepared: 06/07/2008 0402

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6466.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324120

Lab Sample ID: 220-5275-13
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0402
Date Prepared: 06/07/2008 0402

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6466.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	53 - 125
4-Bromofluorobenzene	90	73 - 127
Dibromofluoromethane	101	54 - 137
Toluene-d8 (Surr)	99	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324118

Lab Sample ID: 220-5275-15TB
Client Matrix: Water

Date Sampled: 06/03/2008 1000
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0055
Date Prepared: 06/07/2008 0055

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6459.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.8		0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324118

Lab Sample ID: 220-5275-15TB
Client Matrix: Water

Date Sampled: 06/03/2008 1000
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0055
Date Prepared: 06/07/2008 0055

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6459.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	53 - 125
4-Bromofluorobenzene	84	73 - 127
Dibromofluoromethane	94	54 - 137
Toluene-d8 (Surr)	90	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324119

Lab Sample ID: 220-5275-16
Client Matrix: Water

Date Sampled: 06/03/2008 1530
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0429
Date Prepared: 06/07/2008 0429

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6467.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U *	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U *	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324119

Lab Sample ID: 220-5275-16
Client Matrix: Water

Date Sampled: 06/03/2008 1530
Date Received: 06/04/2008 1845

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/07/2008 0429
Date Prepared: 06/07/2008 0429

Analysis Batch: 220-16693

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6467.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	53 - 125
4-Bromofluorobenzene	89	73 - 127
Dibromofluoromethane	93	54 - 137
Toluene-d8 (Surr)	94	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324112

Lab Sample ID: 220-5275-1
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1231
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704298.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.079	0.53
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.53	U	0.11	0.53
PCB-1242	0.53	U	0.12	0.53
PCB-1248	0.53	U	0.15	0.53
PCB-1254	0.53	U	0.047	0.53
PCB-1260	0.53	U	0.049	0.53
PCB-1262	0.53	U	0.14	0.53
PCB-1268	0.53	U	0.062	0.53

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	74	29 - 156
Tetrachloro-m-xylene	82	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324113

Lab Sample ID: 220-5275-3
Client Matrix: Water

Date Sampled: 06/03/2008 1325
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1247
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704299.d
Initial Weight/Volume: 900 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.56	U	0.083	0.56
PCB-1221	1.1	U	0.35	1.1
PCB-1232	0.56	U	0.12	0.56
PCB-1242	0.56	U	0.13	0.56
PCB-1248	0.56	U	0.16	0.56
PCB-1254	0.56	U	0.050	0.56
PCB-1260	0.56	U	0.052	0.56
PCB-1262	0.56	U	0.14	0.56
PCB-1268	0.56	U	0.066	0.56

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	101	29 - 156
Tetrachloro-m-xylene	89	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324114

Lab Sample ID: 220-5275-5
Client Matrix: Water

Date Sampled: 06/03/2008 1515
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1304
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704300.d
Initial Weight/Volume: 960 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.52	U	0.078	0.52
PCB-1221	1.0	U	0.33	1.0
PCB-1232	0.52	U	0.11	0.52
PCB-1242	0.52	U	0.12	0.52
PCB-1248	0.52	U	0.15	0.52
PCB-1254	0.52	U	0.047	0.52
PCB-1260	0.52	U	0.049	0.52
PCB-1262	0.52	U	0.14	0.52
PCB-1268	0.52	U	0.061	0.52

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	88	29 - 156
Tetrachloro-m-xylene	78	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324115

Lab Sample ID: 220-5275-7
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1321
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704301.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.13	0.50
PCB-1268	0.50	U	0.059	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	91	29 - 156
Tetrachloro-m-xylene	85	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324116

Lab Sample ID: 220-5275-9
Client Matrix: Water

Date Sampled: 06/03/2008 1240
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1338
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704302.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.079	0.53
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.53	U	0.11	0.53
PCB-1242	0.53	U	0.12	0.53
PCB-1248	0.53	U	0.15	0.53
PCB-1254	0.53	U	0.047	0.53
PCB-1260	0.53	U	0.049	0.53
PCB-1262	0.53	U	0.14	0.53
PCB-1268	0.53	U	0.062	0.53

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	93	29 - 156
Tetrachloro-m-xylene	89	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324117

Lab Sample ID: 220-5275-11
Client Matrix: Water

Date Sampled: 06/03/2008 1455
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1355
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704303.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.13	0.50
PCB-1268	0.50	U	0.059	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	92	29 - 156
Tetrachloro-m-xylene	91	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324120

Lab Sample ID: 220-5275-13
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1411
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704304.d
Initial Weight/Volume: 940 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.080	0.53
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.53	U	0.11	0.53
PCB-1242	0.53	U	0.12	0.53
PCB-1248	0.53	U	0.16	0.53
PCB-1254	0.53	U	0.048	0.53
PCB-1260	0.53	U	0.050	0.53
PCB-1262	0.53	U	0.14	0.53
PCB-1268	0.53	U	0.063	0.53

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	91	29 - 156
Tetrachloro-m-xylene	86	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324119

Lab Sample ID: 220-5275-16
Client Matrix: Water

Date Sampled: 06/03/2008 1530
Date Received: 06/04/2008 1845

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1428
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704305.d
Initial Weight/Volume: 900 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.56	U	0.083	0.56
PCB-1221	1.1	U	0.35	1.1
PCB-1232	0.56	U	0.12	0.56
PCB-1242	0.56	U	0.13	0.56
PCB-1248	0.56	U	0.16	0.56
PCB-1254	0.56	U	0.050	0.56
PCB-1260	0.56	U	0.052	0.56
PCB-1262	0.56	U	0.14	0.56
PCB-1268	0.56	U	0.066	0.56

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	65	29 - 156
Tetrachloro-m-xylene	88	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324112

Lab Sample ID: 220-5275-1
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1526
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519553.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	97	U	97	97

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	108	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324113

Lab Sample ID: 220-5275-3
Client Matrix: Water

Date Sampled: 06/03/2008 1325
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1554
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519554.d
Initial Weight/Volume: 910 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	99	U	99	99

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	109	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324114

Lab Sample ID: 220-5275-5
Client Matrix: Water

Date Sampled: 06/03/2008 1515
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1622
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519555.d
Initial Weight/Volume: 900 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	107	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324115

Lab Sample ID: 220-5275-7
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1649
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519556.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	120		97	97

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	109	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324116

Lab Sample ID: 220-5275-9
Client Matrix: Water

Date Sampled: 06/03/2008 1240
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1717
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519557.d
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	150		94	94

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	114	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324117

Lab Sample ID: 220-5275-11
Client Matrix: Water

Date Sampled: 06/03/2008 1455
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1745
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519558.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	910		95	95

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	124	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324120

Lab Sample ID: 220-5275-13
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1813
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519559.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	95	U	95	95

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	108	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324119

Lab Sample ID: 220-5275-16
Client Matrix: Water

Date Sampled: 06/03/2008 1530
Date Received: 06/04/2008 1845

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 06/10/2008 1840
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519560.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	95	U	95	95

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	119	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324112uf

Lab Sample ID: 220-5275-2
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/12/2008 1949
Date Prepared: 06/12/2008 1042

Analysis Batch: 220-16843
Prep Batch: 220-16824

Instrument ID: TJA Trace ICAP
Lab File ID: W061208
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	29		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1156
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324113uf

Lab Sample ID: 220-5275-4
Client Matrix: Water

Date Sampled: 06/03/2008 1325
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/12/2008 1955
Date Prepared: 06/12/2008 1042

Analysis Batch: 220-16843
Prep Batch: 220-16824

Instrument ID: TJA Trace ICAP
Lab File ID: W061208
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	150		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	39		0.50	5.0
Copper	37		0.70	5.0
Nickel	39		0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1159
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324114uf

Lab Sample ID: 220-5275-6
Client Matrix: Water

Date Sampled: 06/03/2008 1515
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/12/2008 2000
Date Prepared: 06/12/2008 1042

Analysis Batch: 220-16843
Prep Batch: 220-16824

Instrument ID: TJA Trace ICAP
Lab File ID: W061208
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	23		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1200
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324115uf

Lab Sample ID: 220-5275-8
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/17/2008 1343
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884

Instrument ID: TJA Trace ICAP
Lab File ID: W061708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	77		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1204
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324116uf

Lab Sample ID: 220-5275-10
Client Matrix: Water

Date Sampled: 06/03/2008 1240
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/17/2008 1349
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884

Instrument ID: TJA Trace ICAP
Lab File ID: W061708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	71		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1204
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324117uf

Lab Sample ID: 220-5275-12
Client Matrix: Water

Date Sampled: 06/03/2008 1455
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/17/2008 1411
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884

Instrument ID: TJA Trace ICAP
Lab File ID: W061708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	54		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1205
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324120uf

Lab Sample ID: 220-5275-14
Client Matrix: Water

Date Sampled: 06/03/2008 1100
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/17/2008 1417
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884

Instrument ID: TJA Trace ICAP
Lab File ID: W061708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	29		0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1206
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Client Sample ID: 1324119uf

Lab Sample ID: 220-5275-17
Client Matrix: Water

Date Sampled: 06/03/2008 1530
Date Received: 06/04/2008 1845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 06/17/2008 1423
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884

Instrument ID: TJA Trace ICAP
Lab File ID: W061708
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	10	U	2.2	10
Silver	2.5	U	0.65	2.5
Barium	2.5	U	0.60	2.5
Cadmium	2.5	U	1.4	2.5
Chromium	5.0	U	0.50	5.0
Copper	5.0	U	0.70	5.0
Nickel	5.0	U	0.70	5.0
Lead	5.0	U	1.5	5.0
Selenium	15	U	1.6	15
Zinc	25	U	3.5	25

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/13/2008 1207
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
GC Semi VOA		
	U	Analyzed for but not detected.
Metals		
	U	Indicates analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-16693					
LCS 220-16693/2	Lab Control Spike	T	Water	8260B	
MB 220-16693/3	Method Blank	T	Water	8260B	
220-5275-1	1324112	T	Water	8260B	
220-5275-3	1324113	T	Water	8260B	
220-5275-5	1324114	T	Water	8260B	
220-5275-7	1324115	T	Water	8260B	
220-5275-9	1324116	T	Water	8260B	
220-5275-11	1324117	T	Water	8260B	
220-5275-13	1324120	T	Water	8260B	
220-5275-15TB	1324118	T	Water	8260B	
220-5275-16	1324119	T	Water	8260B	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 220-16629					
LCS 220-16629/2-A	Lab Control Spike	T	Water	3510C	
MB 220-16629/1-A	Method Blank	T	Water	3510C	
220-5275-1	1324112	T	Water	3510C	
220-5275-3	1324113	T	Water	3510C	
220-5275-5	1324114	T	Water	3510C	
220-5275-7	1324115	T	Water	3510C	
220-5275-9	1324116	T	Water	3510C	
220-5275-11	1324117	T	Water	3510C	
220-5275-13	1324120	T	Water	3510C	
220-5275-16	1324119	T	Water	3510C	
Prep Batch: 220-16633					
LCS 220-16633/2-A	Lab Control Spike	T	Water	3510C	
MB 220-16633/1-A	Method Blank	T	Water	3510C	
220-5275-1	1324112	T	Water	3510C	
220-5275-3	1324113	T	Water	3510C	
220-5275-5	1324114	T	Water	3510C	
220-5275-7	1324115	T	Water	3510C	
220-5275-9	1324116	T	Water	3510C	
220-5275-11	1324117	T	Water	3510C	
220-5275-13	1324120	T	Water	3510C	
220-5275-16	1324119	T	Water	3510C	
Analysis Batch:220-16783					
LCS 220-16629/2-A	Lab Control Spike	T	Water	8082	220-16629
MB 220-16629/1-A	Method Blank	T	Water	8082	220-16629
220-5275-1	1324112	T	Water	8082	220-16629
220-5275-3	1324113	T	Water	8082	220-16629
220-5275-5	1324114	T	Water	8082	220-16629
220-5275-7	1324115	T	Water	8082	220-16629
220-5275-9	1324116	T	Water	8082	220-16629
220-5275-11	1324117	T	Water	8082	220-16629
220-5275-13	1324120	T	Water	8082	220-16629
220-5275-16	1324119	T	Water	8082	220-16629

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:220-16806					
LCS 220-16633/2-A	Lab Control Spike	T	Water	CT ETPH	220-16633
MB 220-16633/1-A	Method Blank	T	Water	CT ETPH	220-16633
220-5275-1	1324112	T	Water	CT ETPH	220-16633
220-5275-3	1324113	T	Water	CT ETPH	220-16633
220-5275-5	1324114	T	Water	CT ETPH	220-16633
220-5275-7	1324115	T	Water	CT ETPH	220-16633
220-5275-9	1324116	T	Water	CT ETPH	220-16633
220-5275-11	1324117	T	Water	CT ETPH	220-16633
220-5275-13	1324120	T	Water	CT ETPH	220-16633
220-5275-16	1324119	T	Water	CT ETPH	220-16633

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-16824					
LCS 220-16824/2-A	Lab Control Spike	T	Water	3010A	
MB 220-16824/1-A	Method Blank	T	Water	3010A	
220-5275-2	1324112uf	T	Water	3010A	
220-5275-4	1324113uf	T	Water	3010A	
220-5275-6	1324114uf	T	Water	3010A	
Analysis Batch:220-16843					
LCS 220-16824/2-A	Lab Control Spike	T	Water	6010B	220-16824
MB 220-16824/1-A	Method Blank	T	Water	6010B	220-16824
220-5275-2	1324112uf	T	Water	6010B	220-16824
220-5275-4	1324113uf	T	Water	6010B	220-16824
220-5275-6	1324114uf	T	Water	6010B	220-16824
Prep Batch: 220-16857					
LCS 220-16857/2-A	Lab Control Spike	T	Water	7470A	
MB 220-16857/1-A	Method Blank	T	Water	7470A	
220-5275-2	1324112uf	T	Water	7470A	
220-5275-2DU	Duplicate	T	Water	7470A	
220-5275-2MS	Matrix Spike	T	Water	7470A	
220-5275-4	1324113uf	T	Water	7470A	
220-5275-6	1324114uf	T	Water	7470A	
220-5275-8	1324115uf	T	Water	7470A	
220-5275-10	1324116uf	T	Water	7470A	
220-5275-12	1324117uf	T	Water	7470A	
220-5275-14	1324120uf	T	Water	7470A	
220-5275-17	1324119uf	T	Water	7470A	
Prep Batch: 220-16884					
LCS 220-16884/2-A	Lab Control Spike	T	Water	3010A	
MB 220-16884/1-A	Method Blank	T	Water	3010A	
220-5275-8	1324115uf	T	Water	3010A	
220-5275-10	1324116uf	T	Water	3010A	
220-5275-12	1324117uf	T	Water	3010A	
220-5275-14	1324120uf	T	Water	3010A	
220-5275-17	1324119uf	T	Water	3010A	

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:220-16888					
LCS 220-16857/2-A	Lab Control Spike	T	Water	7470A	220-16857
MB 220-16857/1-A	Method Blank	T	Water	7470A	220-16857
220-5275-2	1324112uf	T	Water	7470A	220-16857
220-5275-2DU	Duplicate	T	Water	7470A	220-16857
220-5275-2MS	Matrix Spike	T	Water	7470A	220-16857
220-5275-4	1324113uf	T	Water	7470A	220-16857
220-5275-6	1324114uf	T	Water	7470A	220-16857
220-5275-8	1324115uf	T	Water	7470A	220-16857
220-5275-10	1324116uf	T	Water	7470A	220-16857
220-5275-12	1324117uf	T	Water	7470A	220-16857
220-5275-14	1324120uf	T	Water	7470A	220-16857
220-5275-17	1324119uf	T	Water	7470A	220-16857
Analysis Batch:220-17010					
LCS 220-16884/2-A	Lab Control Spike	T	Water	6010B	220-16884
MB 220-16884/1-A	Method Blank	T	Water	6010B	220-16884
220-5275-8	1324115uf	T	Water	6010B	220-16884
220-5275-10	1324116uf	T	Water	6010B	220-16884
220-5275-12	1324117uf	T	Water	6010B	220-16884
220-5275-14	1324120uf	T	Water	6010B	220-16884
220-5275-17	1324119uf	T	Water	6010B	220-16884

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS (Low Level)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCE %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-5275-1	1324112	97	92	97	96
220-5275-3	1324113	95	85	94	93
220-5275-5	1324114	100	87	96	95
220-5275-7	1324115	98	85	97	94
220-5275-9	1324116	98	87	98	95
220-5275-11	1324117	102	91	102	97
220-5275-13	1324120	106	90	101	99
220-5275-15	1324118	95	84	94	90
220-5275-16	1324119	99	89	93	94
MB 220-16693/3		92	87	92	94
LCS 220-16693/2		91	82	93	96

Surrogate	Acceptance Limits
12DCE = 1,2-Dichloroethane-d4 (Surr)	53-125
BFB = 4-Bromofluorobenzene	73-127
DBFM = Dibromofluoromethane	54-137
TOL = Toluene-d8 (Surr)	63-121

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX2 %Rec
220-5275-1	1324112	74	82
220-5275-3	1324113	101	89
220-5275-5	1324114	88	78
220-5275-7	1324115	91	85
220-5275-9	1324116	93	89
220-5275-11	1324117	92	91
220-5275-13	1324120	91	86
220-5275-16	1324119	65	88
MB 220-16629/1-A		96	80
LCS 220-16629/2-A		70	76

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	29-156
TCX = Tetrachloro-m-xylene	53-144

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Surrogate Recovery Report

CT ETPH CT Extractable Total Petroleum Hydrocarbons

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
220-5275-1	1324112	108
220-5275-3	1324113	109
220-5275-5	1324114	107
220-5275-7	1324115	109
220-5275-9	1324116	114
220-5275-11	1324117	124
220-5275-13	1324120	108
220-5275-16	1324119	119
MB 220-16633/1-A		103
LCS 220-16633/2-A		110

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	68-164

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16693

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-16693/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 2029
Date Prepared: 06/06/2008 2029

Analysis Batch: 220-16693
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6449.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.16	1.0
Vinyl chloride	1.0	U	0.090	1.0
Bromomethane	3.0	U	0.41	3.0
Chloroethane	3.0	U	0.38	3.0
Trichlorofluoromethane	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.050	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	0.040	2.0
Carbon disulfide	1.0	U	0.050	1.0
Acetone	5.0	U	0.49	5.0
Methylene Chloride	5.0	U	0.28	5.0
trans-1,2-Dichloroethene	2.0	U	0.090	2.0
Acrylonitrile	5.0	U	0.47	5.0
Methyl tert-butyl ether	1.0	U	0.050	1.0
1,1-Dichloroethane	1.0	U	0.060	1.0
cis-1,2-Dichloroethene	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.0	U	0.31	2.0
Chloroform	1.0	U	0.11	1.0
Tetrahydrofuran	3.0	U	0.29	3.0
1,1,1-Trichloroethane	1.0	U	0.13	1.0
Carbon tetrachloride	1.0	U	0.050	1.0
Benzene	0.50	U	0.050	0.50
1,2-Dichloroethane	1.0	U	0.050	1.0
Trichloroethene	1.0	U	0.050	1.0
methyl isobutyl ketone	2.0	U	0.15	2.0
Toluene	1.0	U	0.060	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.050	1.0
Dibromochloromethane	1.0	U	0.040	1.0
1,2-Dibromoethane	1.0	U	0.020	1.0
Chlorobenzene	1.0	U	0.040	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.070	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.040	1.0
Bromoform	1.0	U	0.060	1.0
Isopropylbenzene	1.0	U	0.040	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.32	2.0
1,1,2,2-Tetrachloroethane	1.0	U	0.070	1.0
1,3,5-Trimethylbenzene	1.0	U	0.050	1.0
tert-Butylbenzene	1.0	U	0.060	1.0
1,2,4-Trimethylbenzene	1.0	U	0.040	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16693

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-16693/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 2029
Date Prepared: 06/06/2008 2029

Analysis Batch: 220-16693
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6449.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
sec-Butylbenzene	1.0	U	0.030	1.0
1,3-Dichlorobenzene	1.0	U	0.060	1.0
4-Isopropyltoluene	1.0	U	0.030	1.0
1,4-Dichlorobenzene	1.0	U	0.050	1.0
n-Butylbenzene	1.0	U	0.070	1.0
1,2-Dichlorobenzene	1.0	U	0.080	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.16	1.0
1,2,4-Trichlorobenzene	1.0	U	0.060	1.0
Acrolein	10	U	0.57	10
Acetonitrile	5.0	U	0.92	5.0
1,2-Dichloropropane	1.0	U	0.020	1.0
Bromodichloromethane	1.0	U	0.20	1.0
N-Propylbenzene	1.0	U	0.060	1.0
Xylenes, Total	2.0	U	0.080	2.0
cis-1,3-Dichloropropene	1.0	U	0.060	1.0
trans-1,3-Dichloropropene	1.0	U	0.040	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	53 - 125
4-Bromofluorobenzene	87	73 - 127
Dibromofluoromethane	92	54 - 137
Toluene-d8 (Surr)	94	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Lab Control Spike - Batch: 220-16693

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-16693/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 1924
Date Prepared: 06/06/2008 1924

Analysis Batch: 220-16693
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6447.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	14.5	145	60 - 140	*
Chloromethane	10.0	10.4	104	43 - 134	
Vinyl chloride	10.0	10.8	108	51 - 139	
Bromomethane	10.0	8.09	81	27 - 171	
Chloroethane	10.0	10.3	103	53 - 167	
Trichlorofluoromethane	10.0	10.2	102	60 - 140	
1,1-Dichloroethene	10.0	9.08	91	57 - 137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.7	107	60 - 140	
Carbon disulfide	10.0	7.15	72	44 - 142	
Acetone	10.0	11.6	116	18 - 263	
Methylene Chloride	10.0	5.87	59	61 - 129	*
trans-1,2-Dichloroethene	10.0	9.37	94	57 - 129	
Acrylonitrile	20.0	17.2	86	60 - 140	
Methyl tert-butyl ether	10.0	8.89	89	60 - 140	
1,1-Dichloroethane	10.0	9.06	91	67 - 121	
cis-1,2-Dichloroethene	10.0	8.48	85	65 - 120	
Methyl Ethyl Ketone	10.0	11.0	110	30 - 222	
Chloroform	10.0	8.99	90	70 - 124	
Tetrahydrofuran	20.0	16.8	84	60 - 140	
1,1,1-Trichloroethane	10.0	8.73	87	60 - 128	
Carbon tetrachloride	10.0	8.69	87	56 - 131	
Benzene	10.0	9.04	90	68 - 126	
1,2-Dichloroethane	10.0	8.24	82	68 - 124	
Trichloroethene	10.0	8.54	85	58 - 125	
methyl isobutyl ketone	10.0	8.09	81	61 - 140	
Toluene	10.0	8.91	89	70 - 116	
1,1,2-Trichloroethane	10.0	9.11	91	70 - 119	
Tetrachloroethene	10.0	8.31	83	62 - 118	
Dibromochloromethane	10.0	8.48	85	65 - 114	
1,2-Dibromoethane	10.0	8.67	87	60 - 140	
Chlorobenzene	10.0	9.03	90	71 - 114	
1,1,1,2-Tetrachloroethane	10.0	8.61	86	60 - 140	
Ethylbenzene	10.0	8.46	85	71 - 115	
Styrene	10.0	8.12	81	69 - 112	
Bromoform	10.0	8.18	82	63 - 115	
Isopropylbenzene	10.0	8.88	89	60 - 140	
trans-1,4-Dichloro-2-butene	20.0	17.2	86	60 - 140	
1,1,2,2-Tetrachloroethane	10.0	8.78	88	66 - 129	
1,3,5-Trimethylbenzene	10.0	8.61	86	60 - 140	
tert-Butylbenzene	10.0	8.97	90	60 - 140	
1,2,4-Trimethylbenzene	10.0	9.06	91	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Lab Control Spike - Batch: 220-16693

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-16693/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 1924
Date Prepared: 06/06/2008 1924

Analysis Batch: 220-16693
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W6447.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
sec-Butylbenzene	10.0	9.77	98	60 - 140	
1,3-Dichlorobenzene	10.0	8.67	87	70 - 115	
4-Isopropyltoluene	10.0	9.05	91	60 - 140	
1,4-Dichlorobenzene	10.0	8.46	85	75 - 119	
n-Butylbenzene	10.0	6.24	62	60 - 140	
1,2-Dichlorobenzene	10.0	8.62	86	75 - 120	
1,2-Dibromo-3-Chloropropane	10.0	7.60	76	60 - 140	
1,2,4-Trichlorobenzene	10.0	9.59	96	60 - 140	
1,2-Dichloropropane	10.0	8.89	89	69 - 122	
Bromodichloromethane	10.0	8.75	87	67 - 118	
N-Propylbenzene	10.0	8.95	89	60 - 140	
Xylenes, Total	30.0	26.2	87	66 - 118	
cis-1,3-Dichloropropene	10.0	8.30	83	60 - 122	
trans-1,3-Dichloropropene	10.0	8.52	85	55 - 126	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	53 - 125
4-Bromofluorobenzene	82	73 - 127
Dibromofluoromethane	93	54 - 137
Toluene-d8 (Surr)	96	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16629

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 220-16629/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2008 1157
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704296.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.13	0.50
PCB-1268	0.50	U	0.059	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	96	29 - 156
Tetrachloro-m-xylene	80	53 - 144

Lab Control Spike - Batch: 220-16629

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 220-16629/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2008 1214
Date Prepared: 06/06/2008 1009

Analysis Batch: 220-16783
Prep Batch: 220-16629
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4704297.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	3.41	68	50 - 122	
PCB-1260	5.00	3.35	67	52 - 118	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	70	29 - 156
Tetrachloro-m-xylene	76	53 - 144

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16633

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: MB 220-16633/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2008 1336
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519549.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	RL	RL
CT ETPH	90	U	90	90

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	103	68 - 164

Lab Control Spike - Batch: 220-16633

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: LCS 220-16633/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2008 1403
Date Prepared: 06/06/2008 1058

Analysis Batch: 220-16806
Prep Batch: 220-16633
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2519550.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
CT ETPH	1500	1660	110	62 - 143	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	110	68 - 164

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16824

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-16824/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2008 1840
Date Prepared: 06/12/2008 1042

Analysis Batch: 220-16843
Prep Batch: 220-16824
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W061208
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	20	U	4.4	20
Silver	5.0	U	1.3	5.0
Barium	5.0	U	1.2	5.0
Cadmium	5.0	U	2.8	5.0
Chromium	10	U	1.0	10
Copper	10	U	1.4	10
Nickel	10	U	1.4	10
Lead	10	U	3.0	10
Selenium	30	U	3.2	30
Zinc	50	U	7.0	50

Lab Control Spike - Batch: 220-16824

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 220-16824/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/12/2008 1846
Date Prepared: 06/12/2008 1042

Analysis Batch: 220-16843
Prep Batch: 220-16824
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W061208
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	1020	102	80 - 120	
Silver	300	307	102	80 - 120	
Barium	300	312	104	80 - 120	
Cadmium	300	313	104	80 - 120	
Chromium	300	325	108	80 - 120	
Copper	300	315	105	80 - 120	
Nickel	300	317	106	80 - 120	
Lead	1000	1030	103	80 - 120	
Selenium	500	491	98	80 - 120	
Zinc	300	321	107	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16884

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-16884/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/17/2008 1734
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W061708
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	20	U	4.4	20
Silver	5.0	U	1.3	5.0
Barium	5.0	U	1.2	5.0
Cadmium	5.0	U	2.8	5.0
Chromium	10	U	1.0	10
Copper	10	U	1.4	10
Nickel	10	U	1.4	10
Lead	10	U	3.0	10
Selenium	30	U	3.2	30
Zinc	50	U	7.0	50

Lab Control Spike - Batch: 220-16884

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 220-16884/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/17/2008 1740
Date Prepared: 06/13/2008 1131

Analysis Batch: 220-17010
Prep Batch: 220-16884
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W061708
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	1050	105	80 - 120	
Silver	300	315	105	80 - 120	
Barium	300	318	106	80 - 120	
Cadmium	300	322	107	80 - 120	
Chromium	300	333	111	80 - 120	
Copper	300	321	107	80 - 120	
Nickel	300	327	109	80 - 120	
Lead	1000	1060	106	80 - 120	
Selenium	500	511	102	80 - 120	
Zinc	300	330	110	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Method Blank - Batch: 220-16857

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 220-16857/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/13/2008 1139
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.090	0.20

Lab Control Spike - Batch: 220-16857

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 220-16857/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/13/2008 1140
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.16	103	80 - 120	

Matrix Spike - Batch: 220-16857

Method: 7470A
Preparation: 7470A

Lab Sample ID: 220-5275-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/13/2008 1158
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20	U	2.00	2.14	107	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
Sdg Number: 220-5275

Duplicate - Batch: 220-16857

Method: 7470A
Preparation: 7470A

Lab Sample ID: 220-5275-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/13/2008 1157
Date Prepared: 06/12/2008 1557

Analysis Batch: 220-16888
Prep Batch: 220-16857
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.20	U	0.20	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmericaInc
Lab Code: TestAmericaInc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\Files\chem\GC\hp5890-2c.i\c2519546.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 19-MAY-2008 16:47 19-MAY-2008 19:04
Sample No. (Alkane): CCV-166455;ETPH4 Date Analyzed: 10-JUN-2008 11:58
Lab File ID: C2519546.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.29	1.24	1.34	124669	116634	6.8
C10 n-decane	1.84	1.79	1.89	128951	116634	10.5
C12 n-dodecane	2.91	2.86	2.96	127804	116634	9.5
C14 n-tetradecane	3.85	3.8	3.9	125310	116634	7.4
C16 n-hexadecane	4.69	4.64	4.74	125049	116634	7.2
C18 n-octadecane	5.46	5.41	5.51	121988	116634	4.5
C20 n-eicosane	6.15	6.1	6.2	107076	116634	-8.1
C22 n-docosane	6.78	6.73	6.83	106955	116634	-8.2
C24 n-tetracosane	7.37	7.32	7.42	110690	116634	-5
C26 n-hexacosane	7.91	7.86	7.96	113522	116634	-2.6
C28 n-octacosane	8.41	8.36	8.46	111716	116634	-4.2
C30 n-triacontane	8.88	8.83	8.93	114342	116634	-1.9
C32 n-dotriacontane	9.32	9.27	9.37	111838	116634	-4.1
C34 n-tetratriacontane	9.74	9.69	9.79	112241	116634	-3.7
C36 n-hexatriacontane	10.16	10.11	10.21	107371	116634	-7.9

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmericaInc
Lab Code: TestAmericaInc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\Files\chem\GC\hp5890-2c.i\c2519546.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 19-MAY-2008 16:47 19-MAY-2008 19:04
Sample No. (Alkane): CCV-166455;ETPH4 Date Analyzed: 10-JUN-2008 22:43
Lab File ID: C2519568.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.29	1.24	1.34	115238	109753	4.9
C10 n-decane	1.85	1.8	1.9	118628	109753	8
C12 n-dodecane	2.91	2.86	2.96	120801	109753	10
C14 n-tetradecane	3.86	3.81	3.91	117796	109753	7.3
C16 n-hexadecane	4.7	4.65	4.75	118358	109753	7.8
C18 n-octadecane	5.46	5.41	5.51	114499	109753	4.3
C20 n-eicosane	6.15	6.1	6.2	103042	109753	-6.1
C22 n-docosane	6.79	6.74	6.84	105779	109753	-3.6
C24 n-tetracosane	7.37	7.32	7.42	105302	109753	-4
C26 n-hexacosane	7.91	7.86	7.96	107046	109753	-2.4
C28 n-octacosane	8.41	8.36	8.46	104816	109753	-4.4
C30 n-triacontane	8.88	8.83	8.93	107641	109753	-1.9
C32 n-dotriacontane	9.32	9.27	9.37	103640	109753	-5.5
C34 n-tetratriacontane	9.74	9.69	9.79	104731	109753	-4.5
C36 n-hexatriacontane	10.16	10.11	10.21	98978	109753	-9.8

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5275

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Rick Brainerd	6/3/08	012548
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page ____ of ____**
100 Northwest Dr	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F+H Bldg GW Monitor

Sample Disposal: ☒ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 88UT709.001

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC 8260	RCRA 8 Metals	PCB	CT ETPH						Comments
1324112 (01)	6/3/08	1100	X						X				X									
1324112uf (02)		1100						X						X								
1324112 (01) (03)		1100				X									X	X						
1324113 03 (04) (04)		1325							X				X									
1324113uf 04 (05) (05)		1325						X						X								
1324113 03 (04) (06)		1325				X									X	X						
1324114 (05) (05) (K3)		1515							X				X									
1324114uf (06) (06) 6/5/08		1515						X						X			PASSED RAD SCREEN					2.3
1324114 (05)		1515				X									X	X						3.6°C
1324115 (07) (07)		1100							X				X									5.1°C

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date 6/3/08	Time 1630	1. Received By LEA Fridge	Date 6/3/08	Time 1800
2. Relinquished By	Date 6/4/08	Time 16:00	2. Received By	Date 6/4/08	Time 16:00
3. Received By	Date	Time	Cooler Temps 6/4/08 1645	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5275

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Louretro Engineering Assoc	Rick Brainerd	6/3/08	012549
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page ____ of ____**
100 Northwest Dr	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F+H Bldg GW Monitoring East Hartford CT

Sample Disposal: ☒ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 68UT709.001

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)		Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC 8260	RCRA 8 Metals	PCB	eTSTPH						Comments
1324115 f	(08)	6/3/08	1100	X					X						X								
1324115	(07)		1100				X									X	X						
1324116	(09)		1240							X				X									
1324116 of	(10)		1240						X						X								
1324116	(09)		1240				X									X	X						
1324117	(11)		1455							X				X									
1324117 of	(12)		1455						X						X								
1324117	(11)		1455				X									X	X			PASSED RAD SCREEN			2.3
1324120	(13)		1100							X				X									3.6°C
1324120 of	(14)		1100	V					X						X								5.1°C

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	6/3/08	1630	LSA fridge	6/3/08	18:00
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
LSA Fridge	6/4/08	16:00	[signature]	6/4/08	1400
3. Received By	**Date**	**Time**	**Cooler Temps**		**Passed Rad. Screen (Lab Use Only)**
			[signature] 6/4/08 1643		☐ Yes ☐ No

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5275

TAL-0015 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Rick Brainerd	6/3/08	012550
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	**Page ____ of ____**
100 Northwest Dr	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): Ft H Bldg P+W East Hartford CT

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 86UT 709.001

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC 8260	RCRA 8 Metals	PCBs	CT ETPH						Comments
1324120 (13)	6/3/08	1100	X			X									X	X						
1324118 (15)	↓	1000	X						X				X									
1324119 (16)		1530	X						X				X									
1324119uf (17)		1530	X					X						X								
1324119 (16)	6/3/08	1530	X			X									X	X						
																	PASSED RAD SCREEN					5.10C
																						2.3
																						3.6°C

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date 6/3/08	Time 1630	1. Received By: LSA fridge	Date 6/3/08	Time 1800
2. Relinquished By: LSA Fridge	Date 6/4/08	Time 16:00	2. Received By	Date 6/4/08	Time 1800
3. Received By	Date	Time	Cooler Temps: 6/4/08 1845	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-5275-01	N/A	N/A	N/A	N/A	0	KB	6/5/08
01					0		
01					0		
01	N/A	N/A			0		
02	HNO3	<2			N/A		
03	N/A	N/A			0		
03					0		
03					0		
03	N/A	N/A			0		
04	HNO3	<2			N/A		
05	N/A	N/A			0		
05					0		
05					0		
05	N/A	N/A			0		
06	HNO3	<2			N/A		
07	N/A	N/A			0		
07					0		
220-5275-07	N/A	N/A	N/A	N/A	0	KB	6/5/08

TestAmerica Form# SMF00204.CT

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-5275-07	N/A	N/A	N/A	N/A	0	KB	6/5/08
08	HNO3	<2			N/A		
09	N/A	N/A			0		
09					0		
09					0		
09	N/A	N/A			0		
10	HNO3	<2			N/A		
11	N/A	N/A			0		
11					0		
11					0		
11	N/A	N/A			0		
12	HNO3	<2			N/A		
13	N/A	N/A			0		
13					0		
13					0		
13	N/A	N/A			0		
14	HNO3	<2			N/A		
220-5275-16	N/A	N/A	N/A	N/A	0	KB	6/5/08

TestAmerica Form# SMF00204.CT

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:
Client:
Client Project:

Lab Number	Preservative	pH	Adjustment	PH after Adjustment	Chlorine Residual	Initials	Date
220-5275- 16	N/A	N/A	N/A	N/A	0	KB	6/5/08
↓ 16	↓	↓	↓	↓	0	↓	↓
↓ 16	N/A	N/A	↓	↓	0	↓	↓
220-5275 - 17	HNO3	<2	N/A	N/A	N/A	KB	6/5/08

6/5/08

TestAmerica Form# SMF00204.CT

TestAmerica - Connecticut
Internal Chain-of-Custody

220-5275
LEA - P+W E. Hartford F+H Bldg.

Trip Blank: 15

QC: — Air: —

FB: —

Soil: — Water: 1-17

Date Received: 6/4/08

Sample #s: 1-17

Locations: 97E, R34G

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1,3,5,7,9,11 13,16	[illegible]	[illegible]	6/6/08	9:40	EXT	USED			
1,3,5,7,9,11 13,15,16	LB	[illegible]	6/6/08	2:15	VOA	USED			
2,4,6	LB	mc	6/12	10:05	MTL	mc	LB	6/12	11:00
2,4,6,8,10 12,14,17	LB	JV	6/12	1400	TTR-Hg	JV	LB	6/12	1634
8,10,12,14,17	LB	mc	6/13	11:05	MTL	mc	LB	6/13	11:45

TestAmerica Form# SMF00508.CT

JOB NO: 220-5275

Fraction: BNA / Pesticide-PCB / Herbicide / O/P Pesticide / DRO / CT ETPH / Other
(Circle one)

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1,3,5,7,9 11,13,16	6/9	16:05	BN	60					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
1,3,5,7,9, 11,13,16	6/10/08	11:0	AN	KS	6/10/08	11:24	60	KS

Codes: SC = Screening AN = Analysis

Verified By: [signature] Date: 6/20/08

Lab Form: SMF01203.CT

JOB NO: 220-5275

Fraction: BNA / Pesticide-PCB / Herbicide / O/P Pesticide / DRO / CT ETPH / Other
(Circle one)

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1,3,5,7 9,11,13,16	6/6	2205	[illegible]	2					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
1,3,5,7,9,11 13,16	06/06/08	1200	AN	SPW	06/07/08	1800	2	SPW

Codes: SC = Screening AN = Analysis

Verified By: [signature] Date: 6/23/08

Lab Form: SMF01203.CT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA CONNECTICUT - CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number: 5275 **Sample Numbers:** 2, 4, 6, 8, 10, 12, 14, 17

Prep Batch Number: 16824, 16884, 16857

WATER - SOIL - SLUDGE - TCLP/SPLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the transfer of these digestates to the metals instrument lab.:

Sample Prep:

Analysts	Date(s) 6/12/08	**ICP**
Analysts	Date(s) 6/13/08	**Mercury**

I confirm that I have performed the analysis below following SOP guidelines:

Analysis:

Analysts	Date(s) 6/19/08	**ICP**
Chemist	Date(s) 6/13/08	**Mercury**

I have reviewed and authorized the release of the job:

Complete: Supervisor — Date 6/19/08

QAF02602.CT

Login Sample Receipt Check List

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-5275-1
SDG Number: 220-5275

Login Number: 5275
Creator: Blocker, Kristina
List Number: 1

List Source: TestAmerica Connecticut

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-6459-1

SDG Number: 220-6459

Job Description: UTC-P&W East Hartford, F&H Building

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Richard J Brainerd

Joan Widomski

Designee for
Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
09/26/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

Job Narrative
220-J6459-1

Comments
As per the State of Connecticut Reasonable Confidence Protocol (CTRCP), a Laboratory Analysis QA/QC Certification Form has been provided with this report.

The following case narrative contains information detailing the QA/QC performance criteria outliers and other documentation as specified in the Connecticut Department of Environmental Protection CTRCP documents. Also described are any issues or limits that are outside of method or client specific acceptance criteria.

The laboratory data qualifiers contained within the report are method specific. The CTRCP QA/QC outliers are described solely in the case narrative.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The following Connecticut Reasonable Confidence Protocol (CTRCP) VOC limits could not be achieved using TestAmerica Connecticut's routine reporting limits (RLs): Acetonitrile, Bromomethane, Chloroethane, Hexachlorobutadiene, Methylene chloride.

All other Connecticut Remediation Standard Regulation (CT RSRs) should be achieved by TestAmerica Connecticut barring any departures due to specific sample matrix interferences or % moisture variations.

Method(s) 8260B: The laboratory control standard (LCS) for the following batches was outside CTRCP control limits for the following analytes:
Batch 20046: acetone-179%, methyl ethyl ketone-134%, dichlorodifluoromethane-158%.
Batch 20122: acetone-141%, dichlorodifluoromethane-152%.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6010B, 6020: The CTRCP Analyte list was not reported for Metals per client request. Sublist RCRA 8 plus Cu, Ni, Zn was reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG: 220-6459

Laboratory Chronicle

Lab ID: 220-6459-1 **Client ID: 1104636**

Sample Date/Time: 09/08/2008 11:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-B-1		220-20046		09/15/2008 20:34	1	TAL CT	BK
A:8260B	220-6459-B-1		220-20046		09/15/2008 20:34	1	TAL CT	BK

Lab ID: 220-6459-2 **Client ID: 1104636**

Sample Date/Time: 09/08/2008 11:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-A-2-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-A-2-A		220-19846	220-19824	09/11/2008 17:31	1	TAL CT	KS
P:3510C	220-6459-C-2-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-C-2-A		220-20193	220-19825	09/22/2008 00:33	1	TAL CT	SW

Lab ID: 220-6459-3 **Client ID: 1104636uf**

Sample Date/Time: 09/08/2008 11:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-3-D		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-3-D		220-20120	220-19841	09/18/2008 12:46	1	TAL CT	NP
P:7470A	220-6459-A-3-E		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-3-E		220-19959	220-19943	09/15/2008 14:19	1	TAL CT	DR

Lab ID: 220-6459-4 **Client ID: 1104637**

Sample Date/Time: 09/08/2008 11:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-B-4		220-20046		09/15/2008 21:00	1	TAL CT	BK
A:8260B	220-6459-B-4		220-20046		09/15/2008 21:00	1	TAL CT	BK

Lab ID: 220-6459-5 **Client ID: 1104637**

Sample Date/Time: 09/08/2008 11:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-A-5-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-A-5-A		220-19846	220-19824	09/11/2008 17:48	1	TAL CT	KS
P:3510C	220-6459-D-5-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-D-5-A		220-20193	220-19825	09/22/2008 01:00	1	TAL CT	SW

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG: 220-6459

Laboratory Chronicle

Lab ID: 220-6459-6 **Client ID: 1104637uf**

Sample Date/Time: 09/08/2008 11:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-6-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-6-A		220-20120	220-19841	09/18/2008 12:56	1	TAL CT	NP
P:7470A	220-6459-A-6-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-6-B		220-19959	220-19943	09/15/2008 14:22	1	TAL CT	DR

Lab ID: 220-6459-7 **Client ID: 1104638**

Sample Date/Time: 09/08/2008 14:05 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-B-7		220-20046		09/15/2008 21:27	1	TAL CT	BK
A:8260B	220-6459-B-7		220-20046		09/15/2008 21:27	1	TAL CT	BK

Lab ID: 220-6459-8 **Client ID: 1104638**

Sample Date/Time: 09/08/2008 14:05 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-A-8-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-A-8-A		220-19846	220-19824	09/11/2008 18:05	1	TAL CT	KS
P:3510C	220-6459-B-8-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-B-8-A		220-20193	220-19825	09/22/2008 01:26	1	TAL CT	SW

Lab ID: 220-6459-9 **Client ID: 1104638uf**

Sample Date/Time: 09/08/2008 14:05 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-9-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-9-A		220-20120	220-19841	09/18/2008 12:59	1	TAL CT	NP
P:7470A	220-6459-A-9-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-9-B		220-19959	220-19943	09/15/2008 14:23	1	TAL CT	DR

Lab ID: 220-6459-10 **Client ID: 1104641**

Sample Date/Time: 09/08/2008 13:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-B-10		220-20046		09/15/2008 21:54	1	TAL CT	BK
A:8260B	220-6459-B-10		220-20046		09/15/2008 21:54	1	TAL CT	BK

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG: 220-6459

Laboratory Chronicle

Lab ID: 220-6459-11 **Client ID: 1104641uf**

Sample Date/Time: 09/08/2008 13:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-11-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-11-A		220-20120	220-19841	09/18/2008 13:03	1	TAL CT	NP
P:7470A	220-6459-A-11-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-11-B		220-19959	220-19943	09/15/2008 14:24	1	TAL CT	DR

Lab ID: 220-6459-12 **Client ID: 1104641**

Sample Date/Time: 09/08/2008 13:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-C-12-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-C-12-A		220-19846	220-19824	09/11/2008 18:21	1	TAL CT	KS
P:3510C	220-6459-D-12-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-D-12-A		220-20193	220-19825	09/22/2008 01:54	1	TAL CT	SW

Lab ID: 220-6459-13 **Client ID: 1104640**

Sample Date/Time: 09/08/2008 11:35 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-B-13		220-20046		09/15/2008 22:20	1	TAL CT	BK
A:8260B	220-6459-B-13		220-20046		09/15/2008 22:20	1	TAL CT	BK

Lab ID: 220-6459-14 **Client ID: 1104640uf**

Sample Date/Time: 09/08/2008 11:35 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-14-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-14-A		220-20120	220-19841	09/18/2008 13:06	1	TAL CT	NP
P:7470A	220-6459-A-14-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-14-B		220-19959	220-19943	09/15/2008 14:25	1	TAL CT	DR

Lab ID: 220-6459-15 **Client ID: 1104640**

Sample Date/Time: 09/08/2008 11:35 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-D-15-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-D-15-A		220-19846	220-19824	09/11/2008 18:38	1	TAL CT	KS
P:3510C	220-6459-B-15-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-B-15-A		220-20193	220-19825	09/22/2008 02:21	1	TAL CT	SW

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG: 220-6459

Laboratory Chronicle

Lab ID: 220-6459-16 **Client ID: 1104632**

Sample Date/Time: 09/08/2008 12:35 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-A-16		220-20122		09/16/2008 20:36	1	TAL CT	BK
A:8260B	220-6459-A-16		220-20122		09/16/2008 20:36	1	TAL CT	BK

Lab ID: 220-6459-17 **Client ID: 1104632uf**

Sample Date/Time: 09/08/2008 12:35 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-17-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-17-A		220-20120	220-19841	09/18/2008 13:09	1	TAL CT	NP
P:7470A	220-6459-A-17-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-17-B		220-19959	220-19943	09/15/2008 14:26	1	TAL CT	DR

Lab ID: 220-6459-18 **Client ID: 1104632**

Sample Date/Time: 09/08/2008 12:35 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-C-18-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-C-18-A		220-19846	220-19824	09/11/2008 18:55	1	TAL CT	KS
P:3510C	220-6459-D-18-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-D-18-A		220-20193	220-19825	09/22/2008 02:48	1	TAL CT	SW

Lab ID: 220-6459-19 **Client ID: 1104633**

Sample Date/Time: 09/08/2008 14:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-B-19		220-20046		09/15/2008 23:14	1	TAL CT	BK
A:8260B	220-6459-B-19		220-20046		09/15/2008 23:14	1	TAL CT	BK

Lab ID: 220-6459-20 **Client ID: 1104633uf**

Sample Date/Time: 09/08/2008 14:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-20-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-20-A		220-20120	220-19841	09/18/2008 13:16	1	TAL CT	NP
P:7470A	220-6459-A-20-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-20-B		220-19959	220-19943	09/15/2008 14:27	1	TAL CT	DR

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG: 220-6459

Laboratory Chronicle

Lab ID: 220-6459-21 **Client ID: 1104633**

Sample Date/Time: 09/08/2008 14:25 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-D-21-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-D-21-A		220-19846	220-19824	09/11/2008 19:12	1	TAL CT	KS
P:3510C	220-6459-B-21-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-B-21-A		220-20193	220-19825	09/22/2008 03:15	1	TAL CT	SW

Lab ID: 220-6459-22 **Client ID: 1104643**

Sample Date/Time: 09/08/2008 10:30 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-A-22		220-20046		09/15/2008 23:40	1	TAL CT	BK
A:8260B	220-6459-A-22		220-20046		09/15/2008 23:40	1	TAL CT	BK

Lab ID: 220-6459-23 **Client ID: 1104642**

Sample Date/Time: 09/08/2008 14:20 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-6459-A-23		220-20122		09/16/2008 21:03	1	TAL CT	BK
A:8260B	220-6459-A-23		220-20122		09/16/2008 21:03	1	TAL CT	BK

Lab ID: 220-6459-24 **Client ID: 1104642uf**

Sample Date/Time: 09/08/2008 14:20 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-6459-A-24-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	220-6459-A-24-A		220-20120	220-19841	09/18/2008 13:20	1	TAL CT	NP
P:7470A	220-6459-A-24-B		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	220-6459-A-24-B		220-19959	220-19943	09/15/2008 14:28	1	TAL CT	DR

Lab ID: 220-6459-25 **Client ID: 1104642**

Sample Date/Time: 09/08/2008 14:20 Received Date/Time: 09/09/2008 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-6459-A-25-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	220-6459-A-25-A		220-19846	220-19824	09/11/2008 19:28	1	TAL CT	KS
P:3510C	220-6459-C-25-A		220-20193	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	220-6459-C-25-A		220-20193	220-19825	09/22/2008 03:42	1	TAL CT	SW

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG: 220-6459

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-20046/3		220-20046		09/15/2008 16:59	1	TAL CT	BK
A:8260B	MB 220-20046/3		220-20046		09/15/2008 16:59	1	TAL CT	BK
P:5030B	MB 220-20122/3		220-20122		09/16/2008 12:54	1	TAL CT	BK
A:8260B	MB 220-20122/3		220-20122		09/16/2008 12:54	1	TAL CT	BK
P:3510C	MB 220-19824/1-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	MB 220-19824/1-A		220-19846	220-19824	09/11/2008 16:58	1	TAL CT	KS
P:3510C	MB 220-19825/1-A		220-20059	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	MB 220-19825/1-A		220-20059	220-19825	09/17/2008 05:47	1	TAL CT	SW
P:3010A	MB 220-19841/1-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	MB 220-19841/1-A		220-20120	220-19841	09/18/2008 12:18	1	TAL CT	NP
P:7470A	MB 220-19943/1-A		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	MB 220-19943/1-A		220-19959	220-19943	09/15/2008 14:10	1	TAL CT	DR

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-20046/2		220-20046		09/15/2008 15:52	1	TAL CT	BK
A:8260B	LCS 220-20046/2		220-20046		09/15/2008 15:52	1	TAL CT	BK
P:5030B	LCS 220-20122/2		220-20122		09/16/2008 12:01	1	TAL CT	BK
A:8260B	LCS 220-20122/2		220-20122		09/16/2008 12:01	1	TAL CT	BK
P:3510C	LCS 220-19824/2-A		220-19846	220-19824	09/10/2008 17:35	1	TAL CT	BPH
A:8082	LCS 220-19824/2-A		220-19846	220-19824	09/11/2008 17:15	1	TAL CT	KS
P:3510C	LCS 220-19825/2-A		220-20059	220-19825	09/10/2008 18:04	1	TAL CT	EL
A:CT ETPH	LCS 220-19825/2-A		220-20059	220-19825	09/17/2008 06:14	1	TAL CT	SW
P:3010A	LCS 220-19841/2-A		220-20120	220-19841	09/11/2008 10:27	1	TAL CT	BC
A:6020	LCS 220-19841/2-A		220-20120	220-19841	09/18/2008 15:23	1	TAL CT	NP
P:7470A	LCS 220-19943/2-A		220-19959	220-19943	09/15/2008 12:15	1	TAL CT	DR
A:7470A	LCS 220-19943/2-A		220-19959	220-19943	09/15/2008 14:11	1	TAL CT	DR

Lab ID: MSB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MSB 220-20122/5		220-20122		09/16/2008 14:14	1	TAL CT	BK
A:8260B	MSB 220-20122/5		220-20122		09/16/2008 14:14	1	TAL CT	BK

Lab References:
TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CT	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CT		SW846 3510C
Connecticut - Extractable Total petroleum Hydrocarbons (GC)	TAL CT	STATE CT ETPH	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CT		SW846 3510C
Metals (ICP/MS)	TAL CT	SW846 6020	
Preparation, Total Metals	TAL CT		SW846 3010A
Mercury (CVAA)	TAL CT	SW846 7470A	
Preparation, Mercury	TAL CT		SW846 7470A

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

STATE = State of Connecticut Department of Public Health

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method	Analyst	Analyst ID
SW846 8260B	Kostrzewska, Barbara	BK
SW846 8082	Smith, Karli	KS
STATE CT ETPH	Widomski, Sarah	SW
SW846 6020	Petronchak, Nestor	NP
SW846 7470A	Ruokonen, Donna	DR

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-6459-1	1104636	Water	09/08/2008 1125	09/09/2008 1800
220-6459-2	1104636	Water	09/08/2008 1125	09/09/2008 1800
220-6459-3	1104636uf	Water	09/08/2008 1125	09/09/2008 1800
220-6459-4	1104637	Water	09/08/2008 1125	09/09/2008 1800
220-6459-5	1104637	Water	09/08/2008 1125	09/09/2008 1800
220-6459-6	1104637uf	Water	09/08/2008 1125	09/09/2008 1800
220-6459-7	1104638	Water	09/08/2008 1405	09/09/2008 1800
220-6459-8	1104638	Water	09/08/2008 1405	09/09/2008 1800
220-6459-9	1104638uf	Water	09/08/2008 1405	09/09/2008 1800
220-6459-10	1104641	Water	09/08/2008 1325	09/09/2008 1800
220-6459-11	1104641uf	Water	09/08/2008 1325	09/09/2008 1800
220-6459-12	1104641	Water	09/08/2008 1325	09/09/2008 1800
220-6459-13	1104640	Water	09/08/2008 1135	09/09/2008 1800
220-6459-14	1104640uf	Water	09/08/2008 1135	09/09/2008 1800
220-6459-15	1104640	Water	09/08/2008 1135	09/09/2008 1800
220-6459-16	1104632	Water	09/08/2008 1235	09/09/2008 1800
220-6459-17	1104632uf	Water	09/08/2008 1235	09/09/2008 1800
220-6459-18	1104632	Water	09/08/2008 1235	09/09/2008 1800
220-6459-19	1104633	Water	09/08/2008 1425	09/09/2008 1800
220-6459-20	1104633uf	Water	09/08/2008 1425	09/09/2008 1800
220-6459-21	1104633	Water	09/08/2008 1425	09/09/2008 1800
220-6459-22TB	1104643	Water	09/08/2008 1030	09/09/2008 1800
220-6459-23	1104642	Water	09/08/2008 1420	09/09/2008 1800
220-6459-24	1104642uf	Water	09/08/2008 1420	09/09/2008 1800
220-6459-25	1104642	Water	09/08/2008 1420	09/09/2008 1800

SAMPLE RESULTS

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104636

Lab Sample ID: 220-6459-1
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2034
Date Prepared: 09/15/2008 2034

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8778.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104636

Lab Sample ID: 220-6459-1
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2034
Date Prepared: 09/15/2008 2034

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8778.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	4.0		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	2.9		0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.76		0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	53 - 125
4-Bromofluorobenzene	81	73 - 127
Dibromofluoromethane	88	54 - 137
Toluene-d8 (Surr)	80	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104637

Lab Sample ID: 220-6459-4
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2100
Date Prepared: 09/15/2008 2100

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8779.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.4		0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104637

Lab Sample ID: 220-6459-4
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2100
Date Prepared: 09/15/2008 2100

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8779.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	4.0		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	2.9		0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.74		0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	53 - 125
4-Bromofluorobenzene	76	73 - 127
Dibromofluoromethane	83	54 - 137
Toluene-d8 (Surr)	76	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104638

Lab Sample ID: 220-6459-7
Client Matrix: Water

Date Sampled: 09/08/2008 1405
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2127
Date Prepared: 09/15/2008 2127

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8780.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.75		0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104638

Lab Sample ID: 220-6459-7
Client Matrix: Water

Date Sampled: 09/08/2008 1405
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2127
Date Prepared: 09/15/2008 2127

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8780.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	1.8		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	53 - 125
4-Bromofluorobenzene	79	73 - 127
Dibromofluoromethane	85	54 - 137
Toluene-d8 (Surr)	78	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104641

Lab Sample ID: 220-6459-10
Client Matrix: Water

Date Sampled: 09/08/2008 1325
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2154
Date Prepared: 09/15/2008 2154

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8781.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104641

Lab Sample ID: 220-6459-10
Client Matrix: Water

Date Sampled: 09/08/2008 1325
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2154
Date Prepared: 09/15/2008 2154

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8781.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	1.4		0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	53 - 125
4-Bromofluorobenzene	83	73 - 127
Dibromofluoromethane	90	54 - 137
Toluene-d8 (Surr)	78	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104640

Lab Sample ID: 220-6459-13
Client Matrix: Water

Date Sampled: 09/08/2008 1135
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2220
Date Prepared: 09/15/2008 2220

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8782.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3.3		0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104640

Lab Sample ID: 220-6459-13
Client Matrix: Water

Date Sampled: 09/08/2008 1135
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2220
Date Prepared: 09/15/2008 2220

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8782.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	57		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	1.4		0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	53 - 125
4-Bromofluorobenzene	84	73 - 127
Dibromofluoromethane	92	54 - 137
Toluene-d8 (Surr)	82	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104632

Lab Sample ID: 220-6459-16
Client Matrix: Water

Date Sampled: 09/08/2008 1235
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/16/2008 2036
Date Prepared: 09/16/2008 2036

Analysis Batch: 220-20122

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8823.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U *	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U *	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104632

Lab Sample ID: 220-6459-16
Client Matrix: Water

Date Sampled: 09/08/2008 1235
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/16/2008 2036
Date Prepared: 09/16/2008 2036

Analysis Batch: 220-20122

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8823.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	53 - 125
4-Bromofluorobenzene	89	73 - 127
Dibromofluoromethane	94	54 - 137
Toluene-d8 (Surr)	85	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104633

Lab Sample ID: 220-6459-19
Client Matrix: Water

Date Sampled: 09/08/2008 1425
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2314
Date Prepared: 09/15/2008 2314

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8784.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104633

Lab Sample ID: 220-6459-19
Client Matrix: Water

Date Sampled: 09/08/2008 1425
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2314
Date Prepared: 09/15/2008 2314

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8784.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	2.8		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	2.7		0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	53 - 125
4-Bromofluorobenzene	84	73 - 127
Dibromofluoromethane	95	54 - 137
Toluene-d8 (Surr)	85	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104643

Lab Sample ID: 220-6459-22TB
Client Matrix: Water

Date Sampled: 09/08/2008 1030
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2340
Date Prepared: 09/15/2008 2340

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8785.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104643

Lab Sample ID: 220-6459-22TB
Client Matrix: Water

Date Sampled: 09/08/2008 1030
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/15/2008 2340
Date Prepared: 09/15/2008 2340

Analysis Batch: 220-20046

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8785.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	53 - 125
4-Bromofluorobenzene	77	73 - 127
Dibromofluoromethane	88	54 - 137
Toluene-d8 (Surr)	79	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104642

Lab Sample ID: 220-6459-23
Client Matrix: Water

Date Sampled: 09/08/2008 1420
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/16/2008 2103
Date Prepared: 09/16/2008 2103

Analysis Batch: 220-20122

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8824.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3.2		0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U *	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U *	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104642

Lab Sample ID: 220-6459-23
Client Matrix: Water

Date Sampled: 09/08/2008 1420
Date Received: 09/09/2008 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/16/2008 2103
Date Prepared: 09/16/2008 2103

Analysis Batch: 220-20122

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8824.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	100	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104636

Lab Sample ID: 220-6459-2
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1731
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721316.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	29 - 156
Tetrachloro-m-xylene	96	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104637

Lab Sample ID: 220-6459-5
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1748
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721317.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	86	29 - 156
Tetrachloro-m-xylene	93	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104638

Lab Sample ID: 220-6459-8
Client Matrix: Water

Date Sampled: 09/08/2008 1405
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1805
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721318.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	93	29 - 156
Tetrachloro-m-xylene	93	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104641

Lab Sample ID: 220-6459-12
Client Matrix: Water

Date Sampled: 09/08/2008 1325
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1821
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721319.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	78	29 - 156
Tetrachloro-m-xylene	97	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104640

Lab Sample ID: 220-6459-15
Client Matrix: Water

Date Sampled: 09/08/2008 1135
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1838
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721320.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	89	29 - 156
Tetrachloro-m-xylene	107	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104632

Lab Sample ID: 220-6459-18
Client Matrix: Water

Date Sampled: 09/08/2008 1235
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1855
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721321.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	94	29 - 156
Tetrachloro-m-xylene	100	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104633

Lab Sample ID: 220-6459-21
Client Matrix: Water

Date Sampled: 09/08/2008 1425
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1912
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721322.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	75	29 - 156
Tetrachloro-m-xylene	94	53 - 144

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104642

Lab Sample ID: 220-6459-25
Client Matrix: Water

Date Sampled: 09/08/2008 1420
Date Received: 09/09/2008 1800

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/11/2008 1928
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721323.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	58	29 - 156
Tetrachloro-m-xylene	98	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104636

Lab Sample ID: 220-6459-2
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0033
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528145.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	280		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	100	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104637

Lab Sample ID: 220-6459-5
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0100
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528146.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	230		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	112	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104638

Lab Sample ID: 220-6459-8
Client Matrix: Water

Date Sampled: 09/08/2008 1405
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0126
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528147.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	1200		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	121	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104641

Lab Sample ID: 220-6459-12
Client Matrix: Water

Date Sampled: 09/08/2008 1325
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0154
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528148.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	210		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	107	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104640

Lab Sample ID: 220-6459-15
Client Matrix: Water

Date Sampled: 09/08/2008 1135
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0221
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528149.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	190		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	107	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104632

Lab Sample ID: 220-6459-18
Client Matrix: Water

Date Sampled: 09/08/2008 1235
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0248
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528150.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	130		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	100	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104633

Lab Sample ID: 220-6459-21
Client Matrix: Water

Date Sampled: 09/08/2008 1425
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0315
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528151.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	340		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	104	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104642

Lab Sample ID: 220-6459-25
Client Matrix: Water

Date Sampled: 09/08/2008 1420
Date Received: 09/09/2008 1800

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 09/22/2008 0342
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20193
Prep Batch: 220-19825

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528152.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	89	68 - 164

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104636uf

Lab Sample ID: 220-6459-3
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1246
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	61		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50		5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1419
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104637uf

Lab Sample ID: 220-6459-6
Client Matrix: Water

Date Sampled: 09/08/2008 1125
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1256
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	59		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1422
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104638uf

Lab Sample ID: 220-6459-9
Client Matrix: Water

Date Sampled: 09/08/2008 1405
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1259
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	56		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1423
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104641uf

Lab Sample ID: 220-6459-11
Client Matrix: Water

Date Sampled: 09/08/2008 1325
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1303
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	46		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10		1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1424
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104640uf

Lab Sample ID: 220-6459-14
Client Matrix: Water

Date Sampled: 09/08/2008 1135
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1306
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	35		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1425
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104632uf

Lab Sample ID: 220-6459-17
Client Matrix: Water

Date Sampled: 09/08/2008 1235
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1309
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	210		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	24		1.1	10
Copper	39		1.0	10
Nickel	33		1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1426
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104633uf

Lab Sample ID: 220-6459-20
Client Matrix: Water

Date Sampled: 09/08/2008 1425
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1316
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	96		1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50		5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1427
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Client Sample ID: 1104642uf

Lab Sample ID: 220-6459-24
Client Matrix: Water

Date Sampled: 09/08/2008 1420
Date Received: 09/09/2008 1800

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/18/2008 1320
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	5.0	U	1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 09/15/2008 1428
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
GC Semi VOA		
	U	Analyzed for but not detected.
Metals		
	U	Indicates analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-20046					
LCS 220-20046/2	Lab Control Spike	T	Water	8260B	
MB 220-20046/3	Method Blank	T	Water	8260B	
220-6459-1	1104636	T	Water	8260B	
220-6459-4	1104637	T	Water	8260B	
220-6459-7	1104638	T	Water	8260B	
220-6459-10	1104641	T	Water	8260B	
220-6459-13	1104640	T	Water	8260B	
220-6459-19	1104633	T	Water	8260B	
220-6459-22TB	1104643	T	Water	8260B	
Analysis Batch:220-20122					
LCS 220-20122/2	Lab Control Spike	T	Water	8260B	
MSB 220-20122/5	Matrix Spike Blank	T	Water	8260B	
MB 220-20122/3	Method Blank	T	Water	8260B	
220-6459-16	1104632	T	Water	8260B	
220-6459-23	1104642	T	Water	8260B	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 220-19824					
LCS 220-19824/2-A	Lab Control Spike	T	Water	3510C	
MB 220-19824/1-A	Method Blank	T	Water	3510C	
220-6459-2	1104636	T	Water	3510C	
220-6459-5	1104637	T	Water	3510C	
220-6459-8	1104638	T	Water	3510C	
220-6459-12	1104641	T	Water	3510C	
220-6459-15	1104640	T	Water	3510C	
220-6459-18	1104632	T	Water	3510C	
220-6459-21	1104633	T	Water	3510C	
220-6459-25	1104642	T	Water	3510C	
Prep Batch: 220-19825					
LCS 220-19825/2-A	Lab Control Spike	T	Water	3510C	
MB 220-19825/1-A	Method Blank	T	Water	3510C	
220-6459-2	1104636	T	Water	3510C	
220-6459-5	1104637	T	Water	3510C	
220-6459-8	1104638	T	Water	3510C	
220-6459-12	1104641	T	Water	3510C	
220-6459-15	1104640	T	Water	3510C	
220-6459-18	1104632	T	Water	3510C	
220-6459-21	1104633	T	Water	3510C	
220-6459-25	1104642	T	Water	3510C	
Analysis Batch:220-19846					
LCS 220-19824/2-A	Lab Control Spike	T	Water	8082	220-19824
MB 220-19824/1-A	Method Blank	T	Water	8082	220-19824
220-6459-2	1104636	T	Water	8082	220-19824
220-6459-5	1104637	T	Water	8082	220-19824
220-6459-8	1104638	T	Water	8082	220-19824
220-6459-12	1104641	T	Water	8082	220-19824
220-6459-15	1104640	T	Water	8082	220-19824
220-6459-18	1104632	T	Water	8082	220-19824
220-6459-21	1104633	T	Water	8082	220-19824
220-6459-25	1104642	T	Water	8082	220-19824
Analysis Batch:220-20059					
LCS 220-19825/2-A	Lab Control Spike	T	Water	CT ETPH	220-19825
MB 220-19825/1-A	Method Blank	T	Water	CT ETPH	220-19825

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:220-20193					
220-6459-2	1104636	T	Water	CT ETPH	220-19825
220-6459-5	1104637	T	Water	CT ETPH	220-19825
220-6459-8	1104638	T	Water	CT ETPH	220-19825
220-6459-12	1104641	T	Water	CT ETPH	220-19825
220-6459-15	1104640	T	Water	CT ETPH	220-19825
220-6459-18	1104632	T	Water	CT ETPH	220-19825
220-6459-21	1104633	T	Water	CT ETPH	220-19825
220-6459-25	1104642	T	Water	CT ETPH	220-19825

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-19841					
LCS 220-19841/2-A	Lab Control Spike	T	Water	3010A	
MB 220-19841/1-A	Method Blank	T	Water	3010A	
220-6459-3	1104636uf	T	Water	3010A	
220-6459-6	1104637uf	T	Water	3010A	
220-6459-9	1104638uf	T	Water	3010A	
220-6459-11	1104641uf	T	Water	3010A	
220-6459-14	1104640uf	T	Water	3010A	
220-6459-17	1104632uf	T	Water	3010A	
220-6459-20	1104633uf	T	Water	3010A	
220-6459-24	1104642uf	T	Water	3010A	
Prep Batch: 220-19943					
LCS 220-19943/2-A	Lab Control Spike	T	Water	7470A	
MB 220-19943/1-A	Method Blank	T	Water	7470A	
220-6459-3	1104636uf	T	Water	7470A	
220-6459-6	1104637uf	T	Water	7470A	
220-6459-9	1104638uf	T	Water	7470A	
220-6459-11	1104641uf	T	Water	7470A	
220-6459-14	1104640uf	T	Water	7470A	
220-6459-17	1104632uf	T	Water	7470A	
220-6459-20	1104633uf	T	Water	7470A	
220-6459-24	1104642uf	T	Water	7470A	
Analysis Batch:220-19959					
LCS 220-19943/2-A	Lab Control Spike	T	Water	7470A	220-19943
MB 220-19943/1-A	Method Blank	T	Water	7470A	220-19943
220-6459-3	1104636uf	T	Water	7470A	220-19943
220-6459-6	1104637uf	T	Water	7470A	220-19943
220-6459-9	1104638uf	T	Water	7470A	220-19943
220-6459-11	1104641uf	T	Water	7470A	220-19943
220-6459-14	1104640uf	T	Water	7470A	220-19943
220-6459-17	1104632uf	T	Water	7470A	220-19943
220-6459-20	1104633uf	T	Water	7470A	220-19943
220-6459-24	1104642uf	T	Water	7470A	220-19943

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:220-20120					
LCS 220-19841/2-A	Lab Control Spike	T	Water	6020	220-19841
MB 220-19841/1-A	Method Blank	T	Water	6020	220-19841
220-6459-3	1104636uf	T	Water	6020	220-19841
220-6459-6	1104637uf	T	Water	6020	220-19841
220-6459-9	1104638uf	T	Water	6020	220-19841
220-6459-11	1104641uf	T	Water	6020	220-19841
220-6459-14	1104640uf	T	Water	6020	220-19841
220-6459-17	1104632uf	T	Water	6020	220-19841
220-6459-20	1104633uf	T	Water	6020	220-19841
220-6459-24	1104642uf	T	Water	6020	220-19841

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCE %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-6459-1	1104636	88	81	88	80
220-6459-4	1104637	84	76	83	76
220-6459-7	1104638	87	79	85	78
220-6459-10	1104641	89	83	90	78
220-6459-13	1104640	95	84	92	82
220-6459-16	1104632	96	89	94	85
220-6459-19	1104633	96	84	95	85
220-6459-22	1104643	89	77	88	79
220-6459-23	1104642	102	85	100	86
MB 220-20046/3		78	81	80	79
MB 220-20122/3		83	78	82	78
LCS 220-20046/2		70	74	75	76
LCS 220-20122/2		83	80	86	80
MSB 220-20122/5		84	74	86	77

Surrogate	Acceptance Limits
12DCE = 1,2-Dichloroethane-d4 (Surr)	53-125
BFB = 4-Bromofluorobenzene	73-127
DBFM = Dibromofluoromethane	54-137
TOL = Toluene-d8 (Surr)	63-121

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX2 %Rec
220-6459-2	1104636	77	96
220-6459-5	1104637	86	93
220-6459-8	1104638	93	93
220-6459-12	1104641	78	97
220-6459-15	1104640	89	107
220-6459-18	1104632	94	100
220-6459-21	1104633	75	94
220-6459-25	1104642	58	98
MB 220-19824/1-A		75	92
LCS 220-19824/2-A		61	78

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	29-156
TCX = Tetrachloro-m-xylene	53-144

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Surrogate Recovery Report

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
220-6459-2	1104636	100
220-6459-5	1104637	112
220-6459-8	1104638	121
220-6459-12	1104641	107
220-6459-15	1104640	107
220-6459-18	1104632	100
220-6459-21	1104633	104
220-6459-25	1104642	89
MB 220-19825/1-A		105
LCS 220-19825/2-A		105

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	68-164

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-20046

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-20046/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/15/2008 1659
Date Prepared: 09/15/2008 1659

Analysis Batch: 220-20046
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8770.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-20046

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-20046/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/15/2008 1659
Date Prepared: 09/15/2008 1659

Analysis Batch: 220-20046
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8770.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78	53 - 125
4-Bromofluorobenzene	81	73 - 127
Dibromofluoromethane	80	54 - 137
Toluene-d8 (Surr)	79	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Lab Control Spike - Batch: 220-20046

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-20046/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/15/2008 1552
Date Prepared: 09/15/2008 1552

Analysis Batch: 220-20046
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8768.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	10.0	17.9	179	18 - 263	
Acrylonitrile	20.0	15.7	79	60 - 140	
Benzene	10.0	9.21	92	68 - 126	
Bromobenzene	10.0	8.65	86	60 - 140	
n-Butylbenzene	10.0	8.18	82	60 - 140	
sec-Butylbenzene	10.0	9.30	93	60 - 140	
tert-Butylbenzene	10.0	8.83	88	60 - 140	
Bromodichloromethane	10.0	8.82	88	67 - 118	
Bromoform	10.0	8.30	83	63 - 115	
Bromomethane	10.0	8.80	88	27 - 171	
Methyl Ethyl Ketone	10.0	13.4	134	30 - 222	
Chlorobenzene	10.0	8.78	88	71 - 114	
Carbon disulfide	10.0	7.82	78	44 - 142	
Carbon tetrachloride	10.0	8.62	86	56 - 131	
Chloroethane	10.0	8.57	86	53 - 167	
Chloroform	10.0	8.86	89	70 - 124	
Chloromethane	10.0	10.5	105	43 - 134	
2-Chlorotoluene	10.0	7.44	74	60 - 140	
4-Chlorotoluene	10.0	8.65	86	60 - 140	
Dibromochloromethane	10.0	8.78	88	65 - 114	
1,2-Dibromo-3-Chloropropane	10.0	7.38	74	60 - 140	
1,2-Dibromoethane	10.0	8.68	87	60 - 140	
Dibromomethane	10.0	8.67	87	60 - 140	
1,2-Dichlorobenzene	10.0	8.55	85	75 - 120	
1,3-Dichlorobenzene	10.0	8.41	84	70 - 115	
1,4-Dichlorobenzene	10.0	8.54	85	75 - 119	
trans-1,4-Dichloro-2-butene	20.0	18.9	95	60 - 140	
Dichlorodifluoromethane	10.0	15.8	158	60 - 140	*
1,1-Dichloroethane	10.0	8.91	89	67 - 121	
1,2-Dichloroethane	10.0	8.29	83	68 - 124	
1,1-Dichloroethene	10.0	8.84	88	57 - 137	
cis-1,2-Dichloroethene	10.0	8.90	89	65 - 120	
trans-1,2-Dichloroethene	10.0	8.64	86	57 - 129	
1,2-Dichloropropane	10.0	9.07	91	69 - 122	
1,3-Dichloropropane	10.0	8.98	90	60 - 140	
2,2-Dichloropropane	10.0	9.55	95	60 - 140	
1,1-Dichloropropene	10.0	8.77	88	60 - 140	
cis-1,3-Dichloropropene	10.0	8.64	86	60 - 122	
trans-1,3-Dichloropropene	10.0	8.97	90	55 - 126	
Ethylbenzene	10.0	8.91	89	71 - 115	
Hexachlorobutadiene	10.0	7.85	79	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Lab Control Spike - Batch: 220-20046

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-20046/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/15/2008 1552
Date Prepared: 09/15/2008 1552

Analysis Batch: 220-20046
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8768.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	10.0	10.6	106	54 - 179	
Isopropylbenzene	10.0	8.93	89	60 - 140	
4-Isopropyltoluene	10.0	8.64	86	60 - 140	
Methylene Chloride	10.0	7.84	78	61 - 129	
methyl isobutyl ketone	10.0	8.92	89	61 - 140	
Methyl tert-butyl ether	10.0	8.62	86	60 - 140	
Naphthalene	10.0	7.42	74	60 - 140	
N-Propylbenzene	10.0	8.87	89	60 - 140	
Styrene	10.0	7.78	78	69 - 112	
1,1,1,2-Tetrachloroethane	10.0	8.89	89	60 - 140	
1,1,2,2-Tetrachloroethane	10.0	9.16	92	66 - 129	
Toluene	10.0	9.06	91	70 - 116	
Tetrachloroethene	10.0	8.62	86	62 - 118	
Tetrahydrofuran	20.0	17.9	90	60 - 140	
1,2,3-Trichlorobenzene	10.0	8.75	88	60 - 140	
1,2,4-Trichlorobenzene	10.0	8.50	85	60 - 140	
1,1,1-Trichloroethane	10.0	8.89	89	60 - 128	
1,1,2-Trichloroethane	10.0	9.06	91	70 - 119	
Trichloroethene	10.0	8.87	89	58 - 125	
Trichlorofluoromethane	10.0	9.64	96	60 - 140	
1,2,3-Trichloropropane	10.0	8.55	86	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.51	85	60 - 140	
1,2,4-Trimethylbenzene	10.0	8.91	89	60 - 140	
1,3,5-Trimethylbenzene	10.0	8.51	85	60 - 140	
Vinyl chloride	10.0	10.1	101	51 - 139	
m&p-Xylene	20.0	18.3	91	57 - 126	
o-Xylene	10.0	9.16	92	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	70	53 - 125
4-Bromofluorobenzene	74	73 - 127
Dibromofluoromethane	75	54 - 137
Toluene-d8 (Surr)	76	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-20122

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-20122/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2008 1254
Date Prepared: 09/16/2008 1254

Analysis Batch: 220-20122
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8810.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.040	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.070	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.060	0.50
1,4-Dichlorobenzene	0.50	U	0.050	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.050	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.060	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-20122

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-20122/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2008 1254
Date Prepared: 09/16/2008 1254

Analysis Batch: 220-20122
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8810.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.040	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.20	0.50
Trichloroethene	0.50	U	0.050	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.050	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83	53 - 125
4-Bromofluorobenzene	78	73 - 127
Dibromofluoromethane	82	54 - 137
Toluene-d8 (Surr)	78	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Lab Control Spike - Batch: 220-20122

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-20122/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2008 1201
Date Prepared: 09/16/2008 1201

Analysis Batch: 220-20122
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8808.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	10.0	14.1	141	18 - 263	
Acrylonitrile	20.0	15.3	76	60 - 140	
Benzene	10.0	8.49	85	68 - 126	
Bromobenzene	10.0	8.71	87	60 - 140	
n-Butylbenzene	10.0	7.78	78	60 - 140	
sec-Butylbenzene	10.0	9.16	92	60 - 140	
tert-Butylbenzene	10.0	8.41	84	60 - 140	
Bromodichloromethane	10.0	8.97	90	67 - 118	
Bromoform	10.0	8.74	87	63 - 115	
Bromomethane	10.0	11.1	111	27 - 171	
Methyl Ethyl Ketone	10.0	9.54	95	30 - 222	
Chlorobenzene	10.0	8.49	85	71 - 114	
Carbon disulfide	10.0	7.43	74	44 - 142	
Carbon tetrachloride	10.0	9.17	92	56 - 131	
Chloroethane	10.0	11.5	115	53 - 167	
Chloroform	10.0	9.09	91	70 - 124	
Chloromethane	10.0	10.7	107	43 - 134	
2-Chlorotoluene	10.0	7.14	71	60 - 140	
4-Chlorotoluene	10.0	8.27	83	60 - 140	
Dibromochloromethane	10.0	9.17	92	65 - 114	
1,2-Dibromo-3-Chloropropane	10.0	8.56	86	60 - 140	
1,2-Dibromoethane	10.0	8.71	87	60 - 140	
Dibromomethane	10.0	8.94	89	60 - 140	
1,2-Dichlorobenzene	10.0	8.49	85	75 - 120	
1,3-Dichlorobenzene	10.0	8.29	83	70 - 115	
1,4-Dichlorobenzene	10.0	8.37	84	75 - 119	
trans-1,4-Dichloro-2-butene	20.0	19.6	98	60 - 140	
Dichlorodifluoromethane	10.0	15.2	152	60 - 140	*
1,1-Dichloroethane	10.0	8.50	85	67 - 121	
1,2-Dichloroethane	10.0	8.86	89	68 - 124	
1,1-Dichloroethene	10.0	8.66	87	57 - 137	
cis-1,2-Dichloroethene	10.0	8.74	87	65 - 120	
trans-1,2-Dichloroethene	10.0	8.41	84	57 - 129	
1,2-Dichloropropane	10.0	8.44	84	69 - 122	
1,3-Dichloropropane	10.0	8.52	85	60 - 140	
2,2-Dichloropropane	10.0	8.93	89	60 - 140	
1,1-Dichloropropene	10.0	8.39	84	60 - 140	
cis-1,3-Dichloropropene	10.0	8.12	81	60 - 122	
trans-1,3-Dichloropropene	10.0	8.72	87	55 - 126	
Ethylbenzene	10.0	8.28	83	71 - 115	
Hexachlorobutadiene	10.0	10.8	108	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Lab Control Spike - Batch: 220-20122

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-20122/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2008 1201
Date Prepared: 09/16/2008 1201

Analysis Batch: 220-20122
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8808.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	10.0	7.07	71	54 - 179	
Isopropylbenzene	10.0	8.43	84	60 - 140	
4-Isopropyltoluene	10.0	8.33	83	60 - 140	
Methylene Chloride	10.0	7.93	79	61 - 129	
methyl isobutyl ketone	10.0	7.95	80	61 - 140	
Methyl tert-butyl ether	10.0	8.83	88	60 - 140	
Naphthalene	10.0	8.12	81	60 - 140	
N-Propylbenzene	10.0	8.17	82	60 - 140	
Styrene	10.0	6.96	70	69 - 112	
1,1,1,2-Tetrachloroethane	10.0	9.01	90	60 - 140	
1,1,2,2-Tetrachloroethane	10.0	8.74	87	66 - 129	
Toluene	10.0	8.49	85	70 - 116	
Tetrachloroethene	10.0	8.55	86	62 - 118	
Tetrahydrofuran	20.0	16.6	83	60 - 140	
1,2,3-Trichlorobenzene	10.0	9.62	96	60 - 140	
1,2,4-Trichlorobenzene	10.0	9.48	95	60 - 140	
1,1,1-Trichloroethane	10.0	9.21	92	60 - 128	
1,1,2-Trichloroethane	10.0	9.25	93	70 - 119	
Trichloroethene	10.0	8.62	86	58 - 125	
Trichlorofluoromethane	10.0	11.3	113	60 - 140	
1,2,3-Trichloropropane	10.0	8.61	86	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.29	83	60 - 140	
1,2,4-Trimethylbenzene	10.0	8.89	89	60 - 140	
1,3,5-Trimethylbenzene	10.0	8.27	83	60 - 140	
Vinyl chloride	10.0	9.65	97	51 - 139	
m&p-Xylene	20.0	17.0	85	57 - 126	
o-Xylene	10.0	8.31	83	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83	53 - 125
4-Bromofluorobenzene	80	73 - 127
Dibromofluoromethane	86	54 - 137
Toluene-d8 (Surr)	80	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Matrix Spike Blank - Batch: 220-20122

Method: 8260B
Preparation: 5030B

Lab Sample ID: MSB 220-20122/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2008 1414
Date Prepared: 09/16/2008 1414

Analysis Batch: 220-20122
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8813.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	16.3	81	60 - 263	
Acrylonitrile	40.0	30.5	76	60 - 140	
Benzene	20.0	14.3	71	68 - 126	
Bromobenzene	20.0	14.4	72	60 - 140	
n-Butylbenzene	20.0	13.5	67	60 - 140	
sec-Butylbenzene	20.0	14.1	70	60 - 140	
tert-Butylbenzene	20.0	14.0	70	60 - 140	
Bromodichloromethane	20.0	16.1	81	67 - 118	
Bromoform	20.0	17.2	86	63 - 115	
Bromomethane	20.0	21.0	105	27 - 171	
Methyl Ethyl Ketone	20.0	15.3	76	30 - 222	
Chlorobenzene	20.0	14.4	72	71 - 114	
Carbon disulfide	20.0	14.0	70	44 - 142	
Carbon tetrachloride	20.0	15.9	80	56 - 131	
Chloroethane	20.0	23.2	116	53 - 167	
Chloroform	20.0	15.4	77	70 - 124	
Chloromethane	20.0	14.6	73	43 - 134	
2-Chlorotoluene	20.0	14.0	70	60 - 140	
4-Chlorotoluene	20.0	14.1	70	60 - 140	
Dibromochloromethane	20.0	16.7	83	65 - 114	
1,2-Dibromo-3-Chloropropane	20.0	15.6	78	60 - 140	
1,2-Dibromoethane	20.0	15.6	78	60 - 140	
Dibromomethane	20.0	16.0	80	60 - 140	
1,2-Dichlorobenzene	20.0	14.4	72	75 - 120	*
1,3-Dichlorobenzene	20.0	14.0	70	70 - 115	
1,4-Dichlorobenzene	20.0	13.9	69	75 - 119	*
trans-1,4-Dichloro-2-butene	40.0	34.0	85	60 - 140	
Dichlorodifluoromethane	20.0	19.6	98	60 - 140	
1,1-Dichloroethane	20.0	14.6	73	67 - 121	
1,2-Dichloroethane	20.0	16.3	82	68 - 124	
1,1-Dichloroethene	20.0	14.1	71	57 - 137	
cis-1,2-Dichloroethene	20.0	14.8	74	65 - 120	
trans-1,2-Dichloroethene	20.0	14.3	72	57 - 129	
1,2-Dichloropropane	20.0	14.6	73	69 - 122	
1,3-Dichloropropane	20.0	15.3	76	60 - 140	
2,2-Dichloropropane	20.0	16.0	80	60 - 140	
1,1-Dichloropropene	20.0	14.2	71	60 - 140	
cis-1,3-Dichloropropene	20.0	15.8	79	60 - 122	
trans-1,3-Dichloropropene	20.0	17.1	85	55 - 126	
Ethylbenzene	20.0	14.8	74	71 - 115	
Hexachlorobutadiene	20.0	14.4	72	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Matrix Spike Blank - Batch: 220-20122

Method: 8260B
Preparation: 5030B

Lab Sample ID: MSB 220-20122/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/16/2008 1414
Date Prepared: 09/16/2008 1414

Analysis Batch: 220-20122
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W8813.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	20.0	16.2	81	54 - 179	
Isopropylbenzene	20.0	14.1	71	60 - 140	
4-Isopropyltoluene	20.0	14.6	73	60 - 140	
Methylene Chloride	20.0	14.7	74	61 - 129	
methyl isobutyl ketone	20.0	15.8	79	61 - 140	
Methyl tert-butyl ether	20.0	16.6	83	60 - 140	
Naphthalene	20.0	13.7	69	60 - 140	
N-Propylbenzene	20.0	13.9	70	60 - 140	
Styrene	20.0	14.1	71	69 - 112	
1,1,1,2-Tetrachloroethane	20.0	15.8	79	60 - 140	
1,1,2,2-Tetrachloroethane	20.0	14.7	73	66 - 129	
Toluene	20.0	14.4	72	70 - 116	
Tetrachloroethene	20.0	14.4	72	62 - 118	
Tetrahydrofuran	40.0	33.1	83	60 - 140	
1,2,3-Trichlorobenzene	20.0	15.3	77	60 - 140	
1,2,4-Trichlorobenzene	20.0	15.0	75	60 - 140	
1,1,1-Trichloroethane	20.0	15.5	77	60 - 128	
1,1,2-Trichloroethane	20.0	15.8	79	70 - 119	
Trichloroethene	20.0	14.8	74	58 - 125	
Trichlorofluoromethane	20.0	22.3	111	60 - 140	
1,2,3-Trichloropropane	20.0	15.2	76	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	15.1	75	60 - 140	
1,2,4-Trimethylbenzene	20.0	14.8	74	60 - 140	
1,3,5-Trimethylbenzene	20.0	14.3	72	60 - 140	
Vinyl chloride	20.0	17.2	86	51 - 139	
m&p-Xylene	40.0	29.9	75	57 - 126	
o-Xylene	20.0	15.1	75	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	53 - 125
4-Bromofluorobenzene	74	73 - 127
Dibromofluoromethane	86	54 - 137
Toluene-d8 (Surr)	77	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-19824

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 220-19824/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/11/2008 1658
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721314.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	75	29 - 156
Tetrachloro-m-xylene	92	53 - 144

Lab Control Spike - Batch: 220-19824

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 220-19824/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/11/2008 1715
Date Prepared: 09/10/2008 1735

Analysis Batch: 220-19846
Prep Batch: 220-19824
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4721315.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	3.57	71	50 - 122	
PCB-1260	5.00	3.71	74	52 - 118	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	29 - 156
Tetrachloro-m-xylene	78	53 - 144

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-19825

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: MB 220-19825/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2008 0547
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20059
Prep Batch: 220-19825
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528080.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	RL	RL
CT ETPH	100	U	100	100

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	105	68 - 164

Lab Control Spike - Batch: 220-19825

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: LCS 220-19825/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/17/2008 0614
Date Prepared: 09/10/2008 1804

Analysis Batch: 220-20059
Prep Batch: 220-19825
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2528081.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
CT ETPH	1500	1770	118	62 - 143	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	105	68 - 164

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-19841

Method: 6020
Preparation: 3010A

Lab Sample ID: MB 220-19841/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/18/2008 1218
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Result	Qual	MDL	RL
Silver	5.0	U	1.6	5.0
Arsenic	3.0	U	1.0	3.0
Barium	5.0	U	1.0	5.0
Cadmium	3.0	U	1.0	3.0
Chromium	10	U	1.1	10
Copper	10	U	1.0	10
Nickel	5.0	U	1.3	5.0
Lead	4.0	U	1.1	4.0
Selenium	10	U	3.0	10
Zinc	50	U	5.0	50

Lab Control Spike - Batch: 220-19841

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 220-19841/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/18/2008 1523
Date Prepared: 09/11/2008 1027

Analysis Batch: 220-20120
Prep Batch: 220-19841
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	300	308	102	80 - 120	
Arsenic	1000	1030	103	80 - 120	
Barium	300	295	98	80 - 120	
Cadmium	300	295	98	80 - 120	
Chromium	300	301	100	80 - 120	
Copper	300	313	104	80 - 120	
Nickel	300	304	101	80 - 120	
Lead	1000	975	98	80 - 120	
Selenium	500	515	103	80 - 120	
Zinc	300	352	118	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
Sdg Number: 220-6459

Method Blank - Batch: 220-19943

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 220-19943/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/15/2008 1410
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.090	0.20

Lab Control Spike - Batch: 220-19943

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 220-19943/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/15/2008 1411
Date Prepared: 09/15/2008 1215

Analysis Batch: 220-19959
Prep Batch: 220-19943
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.73	115	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2528036.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 10-SEP-2008 19:57 10-SEP-2008 22:11
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 17-SEP-2008 03:05
Lab File ID: C2528074.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.37	1.32	1.42	106090	91017	16.5
C10 n-decane	1.93	1.88	1.98	104751	91017	15
C12 n-dodecane	3	2.95	3.05	100406	91017	10.3
C14 n-tetradecane	3.95	3.9	4	96325	91017	5.8
C16 n-hexadecane	4.79	4.74	4.84	96475	91017	5.9
C18 n-octadecane	5.56	5.51	5.61	95389	91017	4.8
C20 n-eicosane	6.25	6.2	6.3	75280	91017	-17.2
C22 n-docosane	6.89	6.84	6.94	78546	91017	-13.7
C24 n-tetracosane	7.47	7.42	7.52	83900	91017	-7.8
C26 n-hexacosane	8.01	7.96	8.06	90716	91017	-0.3
C28 n-octacosane	8.52	8.47	8.57	86012	91017	-5.4
C30 n-triacontane	8.99	8.94	9.04	89787	91017	-1.3
C32 n-dotriacontane	9.43	9.38	9.48	87529	91017	-3.8
C34 n-tetratriacontane	9.85	9.8	9.9	88069	91017	-3.2
C36 n-hexatriacontane	10.3	10.25	10.35	85983	91017	-5.5

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2528036.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 10-SEP-2008 19:57 10-SEP-2008 22:11
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 17-SEP-2008 14:51
Lab File ID: C2528099.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.37	1.32	1.42	109324	95546	14.4
C10 n-decane	1.93	1.88	1.98	108247	95546	13.2
C12 n-dodecane	3	2.95	3.05	105490	95546	10.4
C14 n-tetradecane	3.94	3.89	3.99	99579	95546	4.2
C16 n-hexadecane	4.79	4.74	4.84	99432	95546	4
C18 n-octadecane	5.56	5.51	5.61	98353	95546	2.9
C20 n-eicosane	6.25	6.2	6.3	82083	95546	-14
C22 n-docosane	6.89	6.84	6.94	85843	95546	-10.1
C24 n-tetracosane	7.47	7.42	7.52	90696	95546	-5
C26 n-hexacosane	8.02	7.97	8.07	97092	95546	1.6
C28 n-octacosane	8.52	8.47	8.57	89418	95546	-6.4
C30 n-triacontane	8.99	8.94	9.04	94000	95546	-1.6
C32 n-dotriacontane	9.44	9.39	9.49	93028	95546	-2.6
C34 n-tetratriacontane	9.85	9.8	9.9	91995	95546	-3.7
C36 n-hexatriacontane	10.3	10.25	10.35	88624	95546	-7.2

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2528132.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 10-SEP-2008 19:57 10-SEP-2008 22:11
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 21-SEP-2008 19:09
Lab File ID: C2528133.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.37	1.32	1.42	109568	91755	19.4
C10 n-decane	1.93	1.88	1.98	107066	91755	16.6
C12 n-dodecane	2.99	2.94	3.04	101949	91755	11.1
C14 n-tetradecane	3.94	3.89	3.99	97107	91755	5.8
C16 n-hexadecane	4.79	4.74	4.84	96828	91755	5.5
C18 n-octadecane	5.55	5.5	5.6	95144	91755	3.6
C20 n-eicosane	6.25	6.2	6.3	84951	91755	-7.4
C22 n-docosane	6.88	6.83	6.93	86198	91755	-6
C24 n-tetracosane	7.47	7.42	7.52	88453	91755	-3.5
C26 n-hexacosane	8.01	7.96	8.06	89695	91755	-2.2
C28 n-octacosane	8.51	8.46	8.56	87334	91755	-4.8
C30 n-triacontane	8.99	8.94	9.04	88785	91755	-3.2
C32 n-dotriacontane	9.43	9.38	9.48	85795	91755	-6.4
C34 n-tetratriacontane	9.85	9.8	9.9	83103	91755	-9.4
C36 n-hexatriacontane	10.29	10.24	10.34	74362	91755	-18.9

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2528132.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 10-SEP-2008 19:57 10-SEP-2008 22:11
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 22-SEP-2008 06:23
Lab File ID: C2528157.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.37	1.32	1.42	110183	92961	18.5
C10 n-decane	1.93	1.88	1.98	108634	92961	16.8
C12 n-dodecane	2.99	2.94	3.04	103263	92961	11
C14 n-tetradecane	3.94	3.89	3.99	98905	92961	6.3
C16 n-hexadecane	4.79	4.74	4.84	98045	92961	5.4
C18 n-octadecane	5.55	5.5	5.6	96165	92961	3.4
C20 n-eicosane	6.24	6.19	6.29	84363	92961	-9.2
C22 n-docosane	6.88	6.83	6.93	86023	92961	-7.4
C24 n-tetracosane	7.47	7.42	7.52	88637	92961	-4.6
C26 n-hexacosane	8.01	7.96	8.06	90183	92961	-2.9
C28 n-octacosane	8.51	8.46	8.56	87560	92961	-5.8
C30 n-triacontane	8.98	8.93	9.03	89454	92961	-3.7
C32 n-dotriacontane	9.43	9.38	9.48	86908	92961	-6.5
C34 n-tetratriacontane	9.84	9.79	9.89	85846	92961	-7.6
C36 n-hexatriacontane	10.28	10.23	10.33	80254	92961	-13.6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403 Tel: 802 660 1990

6459

2 of 3

CHAIN OF CUSTODY RECORD

ONE

Report to:		Invoice to:	
Company:	LEA	Company:	SAME
Address:	100 Northwest Drive Plainville, CT	Address:	
Contact:	Rick Brainerd	Contact:	
Phone:	860-747-6181	Phone:	
Fax:	860-747-8822	Fax:	
Contract/ Quote:			

Lab Use Only
Due Date:

Temp. of coolers when received (C°):

1	2	3	4	5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Luke Chmielecki

Sampler's Signature: [signature]

Proj. No.: 88UT709

Project Name: F+H Buildings 2008 Quarterly GW Monitoring

No/Type of Containers[2]

ANALYSIS REQUESTED

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	VOCs	PCBs	ETPH	RCRA 8 + Cu, Ni, Zn	Lab/Sample ID (Lab Use Only)
W	9/8	1125		X	✓ 1104636 (1)	2				X				
		1125		X	✓ 1104636 (2)		4				X	X		
		1125		X	✓ 1104636 of (3)				1				X	
		1125		X	✓ 1104637 (4)	2				X				
		1125		X	✓ 1104637 (5)		4				X	X		
		1125		X	✓ 1104637 (6)				1				X	
		1405		X	✓ 1104638 (7)	2				X				
		1405		X	✓ 1104638 (8)		4				X	X		3.8°C
		1405		X	✓ 1104638 of (9)				1				X	4.6
														5.8°C

PASSED RAD. SCREEN

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9/8/08	1600	LEA Fridge	9/8/08	1600
[signature]	9/9/08	1600	[signature]	9/9/08	16:00
			[signature]	9/9/08	18:00

Remarks
VOAs preserved w/ HCl + ice
P/O preserved w/ HNO_3 + ice

Client's delivery of samples constitutes acceptance of TestAmerica terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other 500 ml clear plastic

TestAmerica Cannot accept verbal changes. Please Fax written changes to (802) 660-1919

TAL-8234(1007)

09/26/2008

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

6459

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3 of 7

TAL-0015 (0508)

Client: LEA	Project Manager: Rick Brainerd	Date: 9/8/08	Chain of Custody Number: 015113
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number/e-mail address: 860-747-6181	Field Telephone Number	Page ____ of ____
City: Plainville; State: CT; Zip Code: 06062	Site Contact: B. Witkewicz	Lab Contact	
Project Name and Location (State): F-H Bldg Quarterly GW Sampling P+W East Hartford CT	Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)		
Contract/Purchase Order/Project No.: 22001162			

Field Sample I.D. (Containers for each sample may be combined on one line)		Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC	Pb, As, Cu, Ni, Zn	PCB	CT ETPH						Comments
1104641	(10)	9/8/08	1325	X						X				X									
1104641 uf	(11)		1325						X						X								
1104641	(12)		1325				X									X	X						
1104640	(13)		1135							X				X									
1104640 uf	(14)		1135						X						X								
1104640	(15)		1135				X									X	X						
1104632	(16)		1235							X				X									3.8°C
1104632 uf	(17)		1235						X						X								4.6°C
1104632	(18)		1235				X									X	X		PASSED RAD SCREEN				5.8°C
1104633	(19)	9/8/08	1425	X						X				X									

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By: [signature]	Date: 9/8/08	Time: 1600	1. Received By: LEA Fridge	Date: 9/8/08	Time: 1600
2. Relinquished By: [signature]	Date: 9/9/08	Time: 1600	2. Received By: [signature]	Date: 9/9/08	Time: 16:00
3. Received By:	Date:	Time:	Cooler Temps: [signature] 9/9/08 16:00	Passed Rad. Screen (Lab Use Only): ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

6459

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client: LEA	Project Manager: Rick Brainerd	Date: 9/8/08	Chain of Custody Number: 015112
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number/e-mail address: 860 747 6181	Field Telephone Number	Page ____ of ____
City: Plainville; State: CT; Zip Code: 06062	Site Contact: B. Witkewicz	Lab Contact	
Project Name and Location (State): SHBL Quarterly GW P+W East Hartford CT	Sample Disposal: ☒ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)		
Contract/Purchase Order/Project No.: 22001162			

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	VOC	RCRA 8 Cd 1,2,4,5	TCLP	CT ETPH						Comments
✓ 1104633uf (20)	9/8/08	1425	X					X						X								
✓ 1104633 (21)		1425	X			X									X	X						
✓ 1104643 (22)		1030	X						X				X									
✓ 1104642 (23)		1420	X						X				X									
1104642uf (24)		1420	X					X						X								
✓ 1104642 (25)		1420	X			X									X	X						
																					PASSED RAD SCREEN	3.8°C
																						4.6
																						5.8°C

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other ____

State Regulatory QC Requirements

1. Relinquished By	Date: 9/8/08	Time: 1600	1. Received By: LEA fridge	Date: 9/8/08	Time: 1600
2. Relinquished By	Date: 9/9/08	Time: 1600	2. Received By	Date: 9/9/08	Time: 16:00
3. Received By	Date	Time	Cooler Temps: 9/9/08 16:00	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:

Client:

Client Project:

Lab Number	Preservative	Preservative Lot Number	pH	Adjustment (mLs)	pH after Adjustment	Chlorine Residual	Initials	Date
10459 - 02 x 4	N/A	N/A	N/A	N/A	N/A	0	KB	9/10/08
05 x 4						0		
08 x 4						0		
12 x 4						0		
15 x 4						0		
18 x 4						0		
21 x 4						0		
25 x 4	N/A		N/A			0		
03	HNO3		<2			N/A		
06			<2					
09			<2					
11			<2					
14			<2					
17			<2					
20			<2					
10459 - 24	HNO3	N/A	<2	N/A	N/A	N/A	KB	9/10/08
			9/10/08					

TestAmerica - Connecticut
Internal Chain-of-Custody

220-6459
LEA - P+W. E. Hartford F&H Bldg.

Trip Blank: 22

QC: — Air: —

FB: —

Soil: — Water: 1-25

Date Received: 9/9/08

Sample #s: 1-25

Locations: 97E, R35T

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
2,5,8,12,15,18, 1,25	LB	BN	9/10	1630	EXT	used			
2,5,8,12,15,18, 1,25	LB	BN	9/10	1630	EXT	used			
3-24	LB	BC	9-11	900	Mtl	BC	LB	9-11	1330
3,6,9,11,14,17,20,24	LB	R	9/15	9:40	Hg	BC	LB	9-15	1230
1,4,7,10,13,16 19,22,23	LB	BM	9/15	16:30	VOA	use			
16, 23	LB	BM	9/16	13:10	VOA	use			

TestAmerica Form# SMF00508.CT

Login Sample Receipt Check List

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-6459-1
SDG Number: 220-6459

Login Number: 6459
Creator: Blocker, Kristina
List Number: 1

List Source: TestAmerica Connecticut

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-7366-1

SDG Number: 220-7366-1

Job Description: UTC-P&W East Hartford, F&H

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Richard J Brainerd

Approved for release.
Joan Widomski
12/18/2008 12:55 PM

Designee for
Jill M Duhancik
Project Manager I
jill.duhancik@testamericainc.com
12/18/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

Job Narrative
220-J7366-1

Comments
As per the State of Connecticut Reasonable Confidence Protocol (CTRCP), a Laboratory Analysis QA/QC Certification Form has been provided with this report.

The following case narrative contains information detailing the QA/QC performance criteria outliers and other documentation as specified in the Connecticut Department of Environmental Protection CTRCP documents. Also described are any issues or limits that are outside of method or client specific acceptance criteria.

The laboratory data qualifiers contained within the report are method specific. The CTRCP QA/QC outliers are described solely in the case narrative.

See the attached template for CTRSR Exceedances.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) analyzed on instrument MSW on 12/08/08 recovered above the CTRCP upper control limit for 2-hexanone-31.9%D, naphthalene-35.7%D, and bromomethane-41.9%D. Samples associated with instrument MSW are 220-7366-7,10,11.

Method(s) 8260B: The initial calibration curve analyzed on instrument MSV on 12/01/08 was outside CTRCP acceptance criteria for toluene (sur) @16.53% RSD, and bromofluorobenzene (sur) @17.9% RSD. IC also used a quadratic curve fit for bromomethane.
Method(s) 8260B: The continuing calibration verification (CCV) analyzed on instrument MSV on 12/12/08 recovered above the CTRCP upper control limit for chloroethane-42.6%D, chloromethane-38.5%D, and dichlorodifluoromethane-33.5%D. Samples associated with instrument MSV are 220-7366-1,4,14,17,20,23.

Method(s) 8260B: The laboratory control standard (LCS) for the following batches was outside CTRCP control limits for the following analytes:
Batch 22682: acetone (>160%), methyl ethyl ketone, 2-chlorotoluene, dichlorodifluoromethane (>160%), naphthalene, styrene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene. Associated samples are 220-7366-7,10,11.
Batch 22873: acetone (>160%), n-butylbenzene, bromomethane, chloroethane, chloromethane, 2-chlorotoluene, dichlorodifluoromethane (>160%), methylene chloride (>160%), naphthalene, 1,3,5-trimethylbenzene. Associated samples are 220-7366-1,4,14,17,20,23.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

CTDEP RCP/RSR Laboratory Detection Limit Exceedances

CTRCP - Aqueous Volatile Low Detection Limit Exceedances

The following Connecticut Reasonable Confidence Protocol (CTRCP) aqueous Volatile method 8260 low detection limits could not be achieved using routine laboratory reporting limits (RLs): Acrylonitrile, Bromomethane, Chloroethane, Hexachlorobutadiene, Methylene chloride.

Connecticut Remediation Standard Exceedances

The following Connecticut Remediation Standard Regulations (CTRSRs) detection limits could not be achieved using routine laboratory reporting limits (RLs):

Volatiles 8260

Groundwater / Surface Water – GWPC Volatile Organic Compounds: Acrolein*, Acrylonitrile, 1,4-Dichlorobutene, Ethylene dibromide, Hexachlorobutadiene**

Groundwater / Surface Water – Proposed RES GWVC Volatile Organic Compound: Ethylene dibromide.

Soil GB PMC: Acrolein*

* Note that Acrolein is not an analyte required under the CTRCP 8260 Analyte List, Table 1B
** Note that Hexachlorobutadiene is also a SVOA CTRCP target compound. The CTRSR limit for this compound can be achieved by the 8270 SemiVolatile SIM method.

SemiVolatile 8270

Groundwater / Surface Water – GWPC SemiVolatile Organic Compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Pentachloronitrobenzene, Pyridine, 1,2,4,5-Tetrachlorobenzene.

Groundwater / Surface Water – SWPC SemiVolatile Organic Compounds: Dibenzo(a,h)anthracene, Hexachlorobenzene, Phenanthrene.

Soil GA/GAA PMC: 2,4-Dinitrophenol

Soil GB PMC: Pyridine

Pesticide 8081

Groundwater / Surface Water – GWPC Pesticides: Aldrin, BHC-beta, Chlordane, Dieldrin

Groundwater / Surface Water – SWPC Pesticides: Chlordane, Toxaphene.

PCB 8082

Soil GA/GAA PMC and GB PMC: Total PCBs

All other Connecticut Remediation Standard Regulation (CTRSRs) can be achieved by TestAmerica Connecticut. Elevated detection limits may occur as a result of sample specific dilutions, matrix interference, or dry weight correction for soil samples.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: 220-7366-1 **Client ID: 1113230**

Sample Date/Time: 12/02/2008 10:10 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-A-1		220-22873		12/12/2008 17:57	1	TAL CT	BK
A:8260B	220-7366-A-1		220-22873		12/12/2008 17:57	1	TAL CT	BK

Lab ID: 220-7366-2 **Client ID: 1113230uf**

Sample Date/Time: 12/02/2008 10:10 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-2-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-2-A		220-22765	220-22596	12/11/2008 13:26	1	TAL CT	NP
P:7470A	220-7366-A-2-D		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-2-D		220-22663	220-22642	12/09/2008 11:25	1	TAL CT	JFV

Lab ID: 220-7366-2 MS **Client ID: 1113230uf**

Sample Date/Time: 12/02/2008 10:10 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-2-C MS		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-2-C MS		220-22765	220-22596	12/11/2008 13:33	1	TAL CT	NP

Lab ID: 220-7366-2 DU **Client ID: 1113230uf**

Sample Date/Time: 12/02/2008 10:10 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-2-B DU		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-2-B DU		220-22765	220-22596	12/11/2008 13:30	1	TAL CT	NP

Lab ID: 220-7366-3 **Client ID: 1113230**

Sample Date/Time: 12/02/2008 10:10 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-C-3-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-C-3-A		220-22848	220-22570	12/12/2008 20:52	1	TAL CT	KS
P:3510C	220-7366-D-3-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-D-3-A		220-22671	220-22533	12/09/2008 08:49	1	TAL CT	SW

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: 220-7366-4 **Client ID: 1113231**

Sample Date/Time: 12/02/2008 12:15 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-B-4		220-22873		12/12/2008 18:24	1	TAL CT	BK
A:8260B	220-7366-B-4		220-22873		12/12/2008 18:24	1	TAL CT	BK

Lab ID: 220-7366-5 **Client ID: 1113231uf**

Sample Date/Time: 12/02/2008 12:15 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-5-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-5-A		220-22765	220-22596	12/11/2008 13:40	1	TAL CT	NP
P:7470A	220-7366-A-5-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-5-B		220-22663	220-22642	12/09/2008 11:26	1	TAL CT	JFV

Lab ID: 220-7366-6 **Client ID: 1113231**

Sample Date/Time: 12/02/2008 12:15 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-C-6-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-C-6-A		220-22848	220-22570	12/12/2008 21:10	1	TAL CT	KS
P:3510C	220-7366-A-6-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-A-6-A		220-22671	220-22533	12/09/2008 09:17	1	TAL CT	SW

Lab ID: 220-7366-7 **Client ID: 1113235**

Sample Date/Time: 12/02/2008 12:15 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-A-7		220-22682		12/08/2008 21:37	1	TAL CT	BK
A:8260B	220-7366-A-7		220-22682		12/08/2008 21:37	1	TAL CT	BK

Lab ID: 220-7366-8 **Client ID: 1113235uf**

Sample Date/Time: 12/02/2008 12:15 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-8-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-8-A		220-22765	220-22596	12/11/2008 13:44	1	TAL CT	NP
P:7470A	220-7366-A-8-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-8-B		220-22663	220-22642	12/09/2008 11:26	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: 220-7366-9 **Client ID: 1113235**

Sample Date/Time: 12/02/2008 12:15 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-D-9-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-D-9-A		220-22848	220-22570	12/12/2008 21:28	1	TAL CT	KS
P:3510C	220-7366-A-9-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-A-9-A		220-22671	220-22533	12/09/2008 09:44	1	TAL CT	SW

Lab ID: 220-7366-10 **Client ID: 1113234**

Sample Date/Time: 12/02/2008 09:00 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-A-10		220-22682		12/08/2008 22:06	1	TAL CT	BK
A:8260B	220-7366-A-10		220-22682		12/08/2008 22:06	1	TAL CT	BK

Lab ID: 220-7366-11 **Client ID: 1113226**

Sample Date/Time: 12/02/2008 09:45 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-A-11		220-22682		12/08/2008 22:36	1	TAL CT	BK
A:8260B	220-7366-A-11		220-22682		12/08/2008 22:36	1	TAL CT	BK

Lab ID: 220-7366-12 **Client ID: 1113226**

Sample Date/Time: 12/02/2008 09:45 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-D-12-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-D-12-A		220-22848	220-22570	12/12/2008 21:46	1	TAL CT	KS
P:3510C	220-7366-B-12-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-B-12-A		220-22671	220-22533	12/09/2008 10:11	1	TAL CT	SW

Lab ID: 220-7366-13 **Client ID: 1113226uf**

Sample Date/Time: 12/02/2008 09:45 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-13-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-13-A		220-22765	220-22596	12/11/2008 13:47	1	TAL CT	NP
P:7470A	220-7366-A-13-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-13-B		220-22663	220-22642	12/09/2008 11:27	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: 220-7366-14 **Client ID: 1113227**

Sample Date/Time: 12/02/2008 11:40 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-B-14		220-22873		12/12/2008 19:16	1	TAL CT	BK
A:8260B	220-7366-B-14		220-22873		12/12/2008 19:16	1	TAL CT	BK

Lab ID: 220-7366-15 **Client ID: 1113227**

Sample Date/Time: 12/02/2008 11:40 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-D-15-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-D-15-A		220-22848	220-22570	12/12/2008 22:05	1	TAL CT	KS
P:3510C	220-7366-C-15-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-C-15-A		220-22671	220-22533	12/09/2008 10:38	1	TAL CT	SW

Lab ID: 220-7366-16 **Client ID: 1113227uf**

Sample Date/Time: 12/02/2008 11:40 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-16-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-16-A		220-22765	220-22596	12/11/2008 13:51	1	TAL CT	NP
P:7470A	220-7366-A-16-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-16-B		220-22663	220-22642	12/09/2008 11:28	1	TAL CT	JFV

Lab ID: 220-7366-17 **Client ID: 1113228**

Sample Date/Time: 12/02/2008 13:35 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-B-17		220-22873		12/12/2008 19:43	1	TAL CT	BK
A:8260B	220-7366-B-17		220-22873		12/12/2008 19:43	1	TAL CT	BK

Lab ID: 220-7366-18 **Client ID: 1113228**

Sample Date/Time: 12/02/2008 13:35 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-C-18-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-C-18-A		220-22848	220-22570	12/12/2008 22:23	1	TAL CT	KS
P:3510C	220-7366-B-18-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-B-18-A		220-22671	220-22533	12/09/2008 11:04	1	TAL CT	SW

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: 220-7366-19 **Client ID: 1113228uf**

Sample Date/Time: 12/02/2008 13:35 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-19-A		220-22764	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	220-7366-A-19-A		220-22764	220-22596	12/11/2008 14:05	1	TAL CT	NP
P:7470A	220-7366-A-19-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-19-B		220-22663	220-22642	12/09/2008 11:29	1	TAL CT	JFV

Lab ID: 220-7366-20 **Client ID: 1113229**

Sample Date/Time: 12/02/2008 14:30 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-B-20		220-22873		12/12/2008 20:10	1	TAL CT	BK
A:8260B	220-7366-B-20		220-22873		12/12/2008 20:10	1	TAL CT	BK

Lab ID: 220-7366-21 **Client ID: 1113229uf**

Sample Date/Time: 12/02/2008 14:30 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-21-A		220-22764	220-22596	12/05/2008 15:51	1	TAL CT	JFV
A:6020	220-7366-A-21-A		220-22764	220-22596	12/11/2008 14:09	1	TAL CT	NP
P:7470A	220-7366-A-21-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-21-B		220-22663	220-22642	12/09/2008 11:30	1	TAL CT	JFV

Lab ID: 220-7366-22 **Client ID: 1113229**

Sample Date/Time: 12/02/2008 14:30 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-B-22-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-B-22-A		220-22848	220-22570	12/12/2008 22:41	1	TAL CT	KS
P:3510C	220-7366-A-22-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-A-22-A		220-22671	220-22533	12/09/2008 13:45	1	TAL CT	SW

Lab ID: 220-7366-23 **Client ID: 1113232**

Sample Date/Time: 12/02/2008 15:00 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-7366-A-23		220-22873		12/12/2008 20:36	1	TAL CT	BK
A:8260B	220-7366-A-23		220-22873		12/12/2008 20:36	1	TAL CT	BK

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: 220-7366-24 **Client ID: 1113232uf**

Sample Date/Time: 12/02/2008 15:00 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	220-7366-A-24-A		220-22764	220-22596	12/05/2008 15:51	1	TAL CT	JFV
A:6020	220-7366-A-24-A		220-22764	220-22596	12/11/2008 14:12	1	TAL CT	NP
P:7470A	220-7366-A-24-B		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	220-7366-A-24-B		220-22663	220-22642	12/09/2008 11:31	1	TAL CT	JFV

Lab ID: 220-7366-25 **Client ID: 1113232**

Sample Date/Time: 12/02/2008 15:00 Received Date/Time: 12/03/2008 19:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-7366-C-25-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	220-7366-C-25-A		220-22848	220-22570	12/12/2008 22:59	1	TAL CT	KS
P:3510C	220-7366-B-25-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	220-7366-B-25-A		220-22671	220-22533	12/09/2008 14:11	1	TAL CT	SW

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-22682/3		220-22682		12/08/2008 13:17	1	TAL CT	BK
A:8260B	MB 220-22682/3		220-22682		12/08/2008 13:17	1	TAL CT	BK
P:5030B	MB 220-22873/2		220-22873		12/12/2008 12:39	1	TAL CT	BK
A:8260B	MB 220-22873/2		220-22873		12/12/2008 12:39	1	TAL CT	BK
P:3510C	MB 220-22570/1-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	MB 220-22570/1-A		220-22848	220-22570	12/12/2008 20:15	1	TAL CT	KS
P:3510C	MB 220-22533/1-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	MB 220-22533/1-A		220-22671	220-22533	12/09/2008 07:56	1	TAL CT	SW
P:3010A	MB 220-22596/1-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	MB 220-22596/1-A		220-22765	220-22596	12/11/2008 12:38	1	TAL CT	NP
P:7470A	MB 220-22642/1-A		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	MB 220-22642/1-A		220-22663	220-22642	12/09/2008 11:11	1	TAL CT	JFV

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG: 220-7366-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-22682/2		220-22682		12/08/2008 12:18	1	TAL CT	BK
A:8260B	LCS 220-22682/2		220-22682		12/08/2008 12:18	1	TAL CT	BK
P:5030B	LCS 220-22873/3		220-22873		12/12/2008 13:06	1	TAL CT	BK
A:8260B	LCS 220-22873/3		220-22873		12/12/2008 13:06	1	TAL CT	BK
P:3510C	LCS 220-22570/3-A		220-22848	220-22570	12/05/2008 11:33	1	TAL CT	BPH
A:8082	LCS 220-22570/3-A		220-22848	220-22570	12/12/2008 20:34	1	TAL CT	KS
P:3510C	LCS 220-22533/2-A		220-22671	220-22533	12/04/2008 11:24	1	TAL CT	TD
A:CT ETPH	LCS 220-22533/2-A		220-22671	220-22533	12/09/2008 08:22	1	TAL CT	SW
P:3010A	LCS 220-22596/2-A		220-22765	220-22596	12/05/2008 15:48	1	TAL CT	JFV
A:6020	LCS 220-22596/2-A		220-22765	220-22596	12/11/2008 12:42	1	TAL CT	NP
P:7470A	LCS 220-22642/2-A		220-22663	220-22642	12/08/2008 15:41	1	TAL CT	JFV
A:7470A	LCS 220-22642/2-A		220-22663	220-22642	12/09/2008 11:11	1	TAL CT	JFV

Lab ID: MSB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MSB 220-22682/7		220-22682		12/08/2008 15:15	1	TAL CT	BK
A:8260B	MSB 220-22682/7		220-22682		12/08/2008 15:15	1	TAL CT	BK
P:5030B	MSB 220-22873/7		220-22873		12/12/2008 14:25	1	TAL CT	BK
A:8260B	MSB 220-22873/7		220-22873		12/12/2008 14:25	1	TAL CT	BK

Lab References:
TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CT	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CT		SW846 3510C
Connecticut - Extractable Total petroleum Hydrocarbons (GC)	TAL CT	STATE CT ETPH	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CT		SW846 3510C
Metals (ICP/MS)	TAL CT	SW846 6020	
Preparation, Total Metals	TAL CT		SW846 3010A
Mercury (CVAA)	TAL CT	SW846 7470A	
Preparation, Mercury	TAL CT		SW846 7470A

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

STATE = State of Connecticut Department of Public Health

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method	Analyst	Analyst ID
SW846 8260B	Kostrzewska, Barbara	BK
SW846 8082	Smith, Karli	KS
STATE CT ETPH	Widomski, Sarah	SW
SW846 6020	Petronchak, Nestor	NP
SW846 7470A	Voytek, Joseph F	JFV

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-7366-1	1113230	Water	12/02/2008 1010	12/03/2008 1930
220-7366-2	1113230uf	Water	12/02/2008 1010	12/03/2008 1930
220-7366-3	1113230	Water	12/02/2008 1010	12/03/2008 1930
220-7366-4	1113231	Water	12/02/2008 1215	12/03/2008 1930
220-7366-5	1113231uf	Water	12/02/2008 1215	12/03/2008 1930
220-7366-6	1113231	Water	12/02/2008 1215	12/03/2008 1930
220-7366-7	1113235	Water	12/02/2008 1215	12/03/2008 1930
220-7366-8	1113235uf	Water	12/02/2008 1215	12/03/2008 1930
220-7366-9	1113235	Water	12/02/2008 1215	12/03/2008 1930
220-7366-10	1113234	Water	12/02/2008 0900	12/03/2008 1930
220-7366-11	1113226	Water	12/02/2008 0945	12/03/2008 1930
220-7366-12	1113226	Water	12/02/2008 0945	12/03/2008 1930
220-7366-13	1113226uf	Water	12/02/2008 0945	12/03/2008 1930
220-7366-14	1113227	Water	12/02/2008 1140	12/03/2008 1930
220-7366-15	1113227	Water	12/02/2008 1140	12/03/2008 1930
220-7366-16	1113227uf	Water	12/02/2008 1140	12/03/2008 1930
220-7366-17	1113228	Water	12/02/2008 1335	12/03/2008 1930
220-7366-18	1113228	Water	12/02/2008 1335	12/03/2008 1930
220-7366-19	1113228uf	Water	12/02/2008 1335	12/03/2008 1930
220-7366-20	1113229	Water	12/02/2008 1430	12/03/2008 1930
220-7366-21	1113229uf	Water	12/02/2008 1430	12/03/2008 1930
220-7366-22	1113229	Water	12/02/2008 1430	12/03/2008 1930
220-7366-23	1113232	Water	12/02/2008 1500	12/03/2008 1930
220-7366-24	1113232uf	Water	12/02/2008 1500	12/03/2008 1930
220-7366-25	1113232	Water	12/02/2008 1500	12/03/2008 1930

SAMPLE RESULTS

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113230

Lab Sample ID: 220-7366-1
Client Matrix: Water

Date Sampled: 12/02/2008 1010
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1757
Date Prepared: 12/12/2008 1757

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0383.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U *	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	1.9		0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113230

Lab Sample ID: 220-7366-1
Client Matrix: Water

Date Sampled: 12/02/2008 1010
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1757
Date Prepared: 12/12/2008 1757

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0383.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U *	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	2.1		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.91		0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	53 - 125
4-Bromofluorobenzene	88	73 - 127
Dibromofluoromethane	109	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113231

Lab Sample ID: 220-7366-4
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1824
Date Prepared: 12/12/2008 1824

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0384.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U *	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113231

Lab Sample ID: 220-7366-4
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1824
Date Prepared: 12/12/2008 1824

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0384.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U *	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.56		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	53 - 125
4-Bromofluorobenzene	91	73 - 127
Dibromofluoromethane	120	54 - 137
Toluene-d8 (Surr)	89	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113235

Lab Sample ID: 220-7366-7
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/08/2008 2137
Date Prepared: 12/08/2008 2137

Analysis Batch: 220-22682

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1337.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U *	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113235

Lab Sample ID: 220-7366-7
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/08/2008 2137
Date Prepared: 12/08/2008 2137

Analysis Batch: 220-22682

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1337.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U *	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U *	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	53 - 125
4-Bromofluorobenzene	99	73 - 127
Dibromofluoromethane	109	54 - 137
Toluene-d8 (Surr)	88	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113234

Lab Sample ID: 220-7366-10
Client Matrix: Water

Date Sampled: 12/02/2008 0900
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/08/2008 2206
Date Prepared: 12/08/2008 2206

Analysis Batch: 220-22682

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1338.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U *	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113234

Lab Sample ID: 220-7366-10
Client Matrix: Water

Date Sampled: 12/02/2008 0900
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/08/2008 2206
Date Prepared: 12/08/2008 2206

Analysis Batch: 220-22682

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1338.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U *	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U *	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	53 - 125
4-Bromofluorobenzene	97	73 - 127
Dibromofluoromethane	108	54 - 137
Toluene-d8 (Surr)	89	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113226

Lab Sample ID: 220-7366-11
Client Matrix: Water

Date Sampled: 12/02/2008 0945
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/08/2008 2236
Date Prepared: 12/08/2008 2236

Analysis Batch: 220-22682

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1339.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3.1		0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U *	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113226

Lab Sample ID: 220-7366-11
Client Matrix: Water

Date Sampled: 12/02/2008 0945
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/08/2008 2236
Date Prepared: 12/08/2008 2236

Analysis Batch: 220-22682

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1339.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U *	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U *	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	125	53 - 125
4-Bromofluorobenzene	109	73 - 127
Dibromofluoromethane	120	54 - 137
Toluene-d8 (Surr)	97	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113227

Lab Sample ID: 220-7366-14
Client Matrix: Water

Date Sampled: 12/02/2008 1140
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1916
Date Prepared: 12/12/2008 1916

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0386.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U *	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113227

Lab Sample ID: 220-7366-14
Client Matrix: Water

Date Sampled: 12/02/2008 1140
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1916
Date Prepared: 12/12/2008 1916

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0386.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U *	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	30		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50		0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	108	54 - 137
Toluene-d8 (Surr)	85	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113228

Lab Sample ID: 220-7366-17
Client Matrix: Water

Date Sampled: 12/02/2008 1335
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1943
Date Prepared: 12/12/2008 1943

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0387.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	1.1		0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U *	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113228

Lab Sample ID: 220-7366-17
Client Matrix: Water

Date Sampled: 12/02/2008 1335
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 1943
Date Prepared: 12/12/2008 1943

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0387.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U *	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	10		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	6.1		0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	1.7		0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	53 - 125
4-Bromofluorobenzene	78	73 - 127
Dibromofluoromethane	112	54 - 137
Toluene-d8 (Surr)	83	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113229

Lab Sample ID: 220-7366-20
Client Matrix: Water

Date Sampled: 12/02/2008 1430
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 2010
Date Prepared: 12/12/2008 2010

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0388.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U *	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113229

Lab Sample ID: 220-7366-20
Client Matrix: Water

Date Sampled: 12/02/2008 1430
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 2010
Date Prepared: 12/12/2008 2010

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0388.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	3.0	*	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	117	54 - 137
Toluene-d8 (Surr)	89	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113232

Lab Sample ID: 220-7366-23
Client Matrix: Water

Date Sampled: 12/02/2008 1500
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 2036
Date Prepared: 12/12/2008 2036

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0389.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U *	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U *	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113232

Lab Sample ID: 220-7366-23
Client Matrix: Water

Date Sampled: 12/02/2008 1500
Date Received: 12/03/2008 1930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/12/2008 2036
Date Prepared: 12/12/2008 2036

Analysis Batch: 220-22873

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0389.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methylene Chloride	2.0	U *	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	2.8		0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	6.7		0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.73		0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	118	54 - 137
Toluene-d8 (Surr)	85	63 - 121

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113230

Lab Sample ID: 220-7366-3
Client Matrix: Water

Date Sampled: 12/02/2008 1010
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2052
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735216.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	66	29 - 156
Tetrachloro-m-xylene	97	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113231

Lab Sample ID: 220-7366-6
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2110
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735217.d
Initial Weight/Volume: 890 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.56	U	0.084	0.56
PCB-1221	1.1	U	0.36	1.1
PCB-1232	0.56	U	0.084	0.56
PCB-1242	0.56	U	0.084	0.56
PCB-1248	0.56	U	0.084	0.56
PCB-1254	0.56	U	0.051	0.56
PCB-1260	0.56	U	0.053	0.56
PCB-1262	0.56	U	0.053	0.56
PCB-1268	0.56	U	0.053	0.56

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	78	29 - 156
Tetrachloro-m-xylene	112	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113235

Lab Sample ID: 220-7366-9
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2128
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735218.d
Initial Weight/Volume: 910 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.55	U	0.082	0.55
PCB-1221	1.1	U	0.35	1.1
PCB-1232	0.55	U	0.082	0.55
PCB-1242	0.55	U	0.082	0.55
PCB-1248	0.55	U	0.082	0.55
PCB-1254	0.55	U	0.049	0.55
PCB-1260	0.55	U	0.052	0.55
PCB-1262	0.55	U	0.052	0.55
PCB-1268	0.55	U	0.052	0.55

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	76	29 - 156
Tetrachloro-m-xylene	109	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113226

Lab Sample ID: 220-7366-12
Client Matrix: Water

Date Sampled: 12/02/2008 0945
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2146
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735219.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.54	U	0.081	0.54
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.54	U	0.081	0.54
PCB-1242	0.54	U	0.081	0.54
PCB-1248	0.54	U	0.081	0.54
PCB-1254	0.54	U	0.048	0.54
PCB-1260	0.54	U	0.051	0.54
PCB-1262	0.54	U	0.051	0.54
PCB-1268	0.54	U	0.051	0.54

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	82	29 - 156
Tetrachloro-m-xylene	114	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113227

Lab Sample ID: 220-7366-15
Client Matrix: Water

Date Sampled: 12/02/2008 1140
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2205
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735220.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.54	U	0.081	0.54
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.54	U	0.081	0.54
PCB-1242	0.54	U	0.081	0.54
PCB-1248	0.54	U	0.081	0.54
PCB-1254	0.54	U	0.048	0.54
PCB-1260	0.54	U	0.051	0.54
PCB-1262	0.54	U	0.051	0.54
PCB-1268	0.54	U	0.051	0.54

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	29 - 156
Tetrachloro-m-xylene	115	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113228

Lab Sample ID: 220-7366-18
Client Matrix: Water

Date Sampled: 12/02/2008 1335
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2223
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735221.d
Initial Weight/Volume: 930 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.54	U	0.081	0.54
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.54	U	0.081	0.54
PCB-1242	0.54	U	0.081	0.54
PCB-1248	0.54	U	0.081	0.54
PCB-1254	0.54	U	0.048	0.54
PCB-1260	0.54	U	0.051	0.54
PCB-1262	0.54	U	0.051	0.54
PCB-1268	0.54	U	0.051	0.54

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	90	29 - 156
Tetrachloro-m-xylene	126	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113229

Lab Sample ID: 220-7366-22
Client Matrix: Water

Date Sampled: 12/02/2008 1430
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2241
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735222.d
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.079	0.53
PCB-1221	1.1	U	0.34	1.1
PCB-1232	0.53	U	0.079	0.53
PCB-1242	0.53	U	0.079	0.53
PCB-1248	0.53	U	0.079	0.53
PCB-1254	0.53	U	0.047	0.53
PCB-1260	0.53	U	0.049	0.53
PCB-1262	0.53	U	0.049	0.53
PCB-1268	0.53	U	0.049	0.53

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	35		29 - 156
Tetrachloro-m-xylene	153	*	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113232

Lab Sample ID: 220-7366-25
Client Matrix: Water

Date Sampled: 12/02/2008 1500
Date Received: 12/03/2008 1930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2008 2259
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735223.d
Initial Weight/Volume: 850 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.59	U	0.088	0.59
PCB-1221	1.2	U	0.38	1.2
PCB-1232	0.59	U	0.088	0.59
PCB-1242	0.59	U	0.088	0.59
PCB-1248	0.59	U	0.088	0.59
PCB-1254	0.59	U	0.053	0.59
PCB-1260	0.59	U	0.055	0.59
PCB-1262	0.59	U	0.055	0.59
PCB-1268	0.59	U	0.055	0.59

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	29 - 156
Tetrachloro-m-xylene	117	53 - 144

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113230

Lab Sample ID: 220-7366-3
Client Matrix: Water

Date Sampled: 12/02/2008 1010
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 0849
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548088.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	790		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	109	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113231

Lab Sample ID: 220-7366-6
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 0917
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548089.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	121	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113235

Lab Sample ID: 220-7366-9
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 0944
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548090.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	111	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113226

Lab Sample ID: 220-7366-12
Client Matrix: Water

Date Sampled: 12/02/2008 0945
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 1011
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548091.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	119	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113227

Lab Sample ID: 220-7366-15
Client Matrix: Water

Date Sampled: 12/02/2008 1140
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 1038
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548092.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	120	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113228

Lab Sample ID: 220-7366-18
Client Matrix: Water

Date Sampled: 12/02/2008 1335
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 1104
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548093.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	210		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	111	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113229

Lab Sample ID: 220-7366-22
Client Matrix: Water

Date Sampled: 12/02/2008 1430
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 1345
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548098.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	100	U	100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	125	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113232

Lab Sample ID: 220-7366-25
Client Matrix: Water

Date Sampled: 12/02/2008 1500
Date Received: 12/03/2008 1930

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Method: CT ETPH
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/09/2008 1411
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548099.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL	RL
CT ETPH	470		100	100

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	120	50 - 150

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113230uf

Lab Sample ID: 220-7366-2
Client Matrix: Water

Date Sampled: 12/02/2008 1010
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1326
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	47		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1125
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113231uf

Lab Sample ID: 220-7366-5
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1340
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	140		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	41		0.55	5.0
Copper	30		0.50	5.0
Nickel	31		0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1126
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113235uf

Lab Sample ID: 220-7366-8
Client Matrix: Water

Date Sampled: 12/02/2008 1215
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1344
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	140		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	39		0.55	5.0
Copper	29		0.50	5.0
Nickel	30		0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1126
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113226uf

Lab Sample ID: 220-7366-13
Client Matrix: Water

Date Sampled: 12/02/2008 0945
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1347
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	39		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1127
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113227uf

Lab Sample ID: 220-7366-16
Client Matrix: Water

Date Sampled: 12/02/2008 1140
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1351
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	17		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1128
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113228uf

Lab Sample ID: 220-7366-19
Client Matrix: Water

Date Sampled: 12/02/2008 1335
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1405
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22764
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	110		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1129
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113229uf

Lab Sample ID: 220-7366-21
Client Matrix: Water

Date Sampled: 12/02/2008 1430
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1409
Date Prepared: 12/05/2008 1551

Analysis Batch: 220-22764
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	2.5	U	0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1130
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

Analytical Data

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Client Sample ID: 1113232uf

Lab Sample ID: 220-7366-24
Client Matrix: Water

Date Sampled: 12/02/2008 1500
Date Received: 12/03/2008 1930

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/11/2008 1412
Date Prepared: 12/05/2008 1551

Analysis Batch: 220-22764
Prep Batch: 220-22596

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	69		0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/09/2008 1131
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.090	0.20

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
GC Semi VOA		
	U	Analyzed for but not detected.
	*	Surrogate exceeds the control limit
Metals		
	U	Indicates analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-22682					
LCS 220-22682/2	Lab Control Spike	T	Water	8260B	
MSB 220-22682/7	Matrix Spike Blank	T	Water	8260B	
MB 220-22682/3	Method Blank	T	Water	8260B	
220-7366-7	1113235	T	Water	8260B	
220-7366-10	1113234	T	Water	8260B	
220-7366-11	1113226	T	Water	8260B	
Analysis Batch:220-22873					
LCS 220-22873/3	Lab Control Spike	T	Water	8260B	
MSB 220-22873/7	Matrix Spike Blank	T	Water	8260B	
MB 220-22873/2	Method Blank	T	Water	8260B	
220-7366-1	1113230	T	Water	8260B	
220-7366-4	1113231	T	Water	8260B	
220-7366-14	1113227	T	Water	8260B	
220-7366-17	1113228	T	Water	8260B	
220-7366-20	1113229	T	Water	8260B	
220-7366-23	1113232	T	Water	8260B	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 220-22533					
LCS 220-22533/2-A	Lab Control Spike	T	Water	3510C	
MB 220-22533/1-A	Method Blank	T	Water	3510C	
220-7366-3	1113230	T	Water	3510C	
220-7366-6	1113231	T	Water	3510C	
220-7366-9	1113235	T	Water	3510C	
220-7366-12	1113226	T	Water	3510C	
220-7366-15	1113227	T	Water	3510C	
220-7366-18	1113228	T	Water	3510C	
220-7366-22	1113229	T	Water	3510C	
220-7366-25	1113232	T	Water	3510C	
Prep Batch: 220-22570					
LCS 220-22570/3-A	Lab Control Spike	T	Water	3510C	
MB 220-22570/1-A	Method Blank	T	Water	3510C	
220-7366-3	1113230	T	Water	3510C	
220-7366-6	1113231	T	Water	3510C	
220-7366-9	1113235	T	Water	3510C	
220-7366-12	1113226	T	Water	3510C	
220-7366-15	1113227	T	Water	3510C	
220-7366-18	1113228	T	Water	3510C	
220-7366-22	1113229	T	Water	3510C	
220-7366-25	1113232	T	Water	3510C	
Analysis Batch:220-22671					
LCS 220-22533/2-A	Lab Control Spike	T	Water	CT ETPH	220-22533
MB 220-22533/1-A	Method Blank	T	Water	CT ETPH	220-22533
220-7366-3	1113230	T	Water	CT ETPH	220-22533
220-7366-6	1113231	T	Water	CT ETPH	220-22533
220-7366-9	1113235	T	Water	CT ETPH	220-22533
220-7366-12	1113226	T	Water	CT ETPH	220-22533
220-7366-15	1113227	T	Water	CT ETPH	220-22533
220-7366-18	1113228	T	Water	CT ETPH	220-22533
220-7366-22	1113229	T	Water	CT ETPH	220-22533
220-7366-25	1113232	T	Water	CT ETPH	220-22533

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:220-22848					
LCS 220-22570/3-A	Lab Control Spike	T	Water	8082	220-22570
MB 220-22570/1-A	Method Blank	T	Water	8082	220-22570
220-7366-3	1113230	T	Water	8082	220-22570
220-7366-6	1113231	T	Water	8082	220-22570
220-7366-9	1113235	T	Water	8082	220-22570
220-7366-12	1113226	T	Water	8082	220-22570
220-7366-15	1113227	T	Water	8082	220-22570
220-7366-18	1113228	T	Water	8082	220-22570
220-7366-22	1113229	T	Water	8082	220-22570
220-7366-25	1113232	T	Water	8082	220-22570

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-22596					
LCS 220-22596/2-A	Lab Control Spike	T	Water	3010A	
MB 220-22596/1-A	Method Blank	T	Water	3010A	
220-7366-2	1113230uf	T	Water	3010A	
220-7366-2DU	Duplicate	T	Water	3010A	
220-7366-2MS	Matrix Spike	T	Water	3010A	
220-7366-5	1113231uf	T	Water	3010A	
220-7366-8	1113235uf	T	Water	3010A	
220-7366-13	1113226uf	T	Water	3010A	
220-7366-16	1113227uf	T	Water	3010A	
220-7366-19	1113228uf	T	Water	3010A	
220-7366-21	1113229uf	T	Water	3010A	
220-7366-24	1113232uf	T	Water	3010A	
Prep Batch: 220-22642					
LCS 220-22642/2-A	Lab Control Spike	T	Water	7470A	
MB 220-22642/1-A	Method Blank	T	Water	7470A	
220-7366-2	1113230uf	T	Water	7470A	
220-7366-5	1113231uf	T	Water	7470A	
220-7366-8	1113235uf	T	Water	7470A	
220-7366-13	1113226uf	T	Water	7470A	
220-7366-16	1113227uf	T	Water	7470A	
220-7366-19	1113228uf	T	Water	7470A	
220-7366-21	1113229uf	T	Water	7470A	
220-7366-24	1113232uf	T	Water	7470A	
Analysis Batch:220-22663					
LCS 220-22642/2-A	Lab Control Spike	T	Water	7470A	220-22642
MB 220-22642/1-A	Method Blank	T	Water	7470A	220-22642
220-7366-2	1113230uf	T	Water	7470A	220-22642
220-7366-5	1113231uf	T	Water	7470A	220-22642
220-7366-8	1113235uf	T	Water	7470A	220-22642
220-7366-13	1113226uf	T	Water	7470A	220-22642
220-7366-16	1113227uf	T	Water	7470A	220-22642
220-7366-19	1113228uf	T	Water	7470A	220-22642
220-7366-21	1113229uf	T	Water	7470A	220-22642
220-7366-24	1113232uf	T	Water	7470A	220-22642
Analysis Batch:220-22764					
220-7366-19	1113228uf	T	Water	6020	220-22596
220-7366-21	1113229uf	T	Water	6020	220-22596
220-7366-24	1113232uf	T	Water	6020	220-22596

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:220-22765					
LCS 220-22596/2-A	Lab Control Spike	T	Water	6020	220-22596
MB 220-22596/1-A	Method Blank	T	Water	6020	220-22596
220-7366-2	1113230uf	T	Water	6020	220-22596
220-7366-2DU	Duplicate	T	Water	6020	220-22596
220-7366-2MS	Matrix Spike	T	Water	6020	220-22596
220-7366-5	1113231uf	T	Water	6020	220-22596
220-7366-8	1113235uf	T	Water	6020	220-22596
220-7366-13	1113226uf	T	Water	6020	220-22596
220-7366-16	1113227uf	T	Water	6020	220-22596

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCE %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-7366-1	1113230	100	88	109	86
220-7366-4	1113231	104	91	120	89
220-7366-7	1113235	114	99	109	88
220-7366-10	1113234	112	97	108	89
220-7366-11	1113226	125	109	120	97
220-7366-14	1113227	101	86	108	85
220-7366-17	1113228	103	78	112	83
220-7366-20	1113229	107	85	117	89
220-7366-23	1113232	106	86	118	85
MB 220-22682/3		103	98	97	86
MB 220-22873/2		97	90	111	90
LCS 220-22682/2		90	88	89	82
LCS 220-22873/3		94	85	103	89
MSB 220-22682/7		93	84	90	82
MSB 220-22873/7		83	82	91	90

Surrogate	Acceptance Limits
12DCE = 1,2-Dichloroethane-d4 (Surr)	53-125
BFB = 4-Bromofluorobenzene	73-127
DBFM = Dibromofluoromethane	54-137
TOL = Toluene-d8 (Surr)	63-121

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX2 %Rec
220-7366-3	1113230	66	97
220-7366-6	1113231	78	112
220-7366-9	1113235	76	109
220-7366-12	1113226	82	114
220-7366-15	1113227	77	115
220-7366-18	1113228	90	126
220-7366-22	1113229	35	153*
220-7366-25	1113232	83	117
MB 220-22570/1-A		92	88
LCS 220-22570/3-A		60	109

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	29-156
TCX = Tetrachloro-m-xylene	53-144

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Surrogate Recovery Report

CT ETPH Connecticut - Extractable Total petroleum Hydrocarbons (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
220-7366-3	1113230	109
220-7366-6	1113231	121
220-7366-9	1113235	111
220-7366-12	1113226	119
220-7366-15	1113227	120
220-7366-18	1113228	111
220-7366-22	1113229	125
220-7366-25	1113232	120
MB 220-22533/1-A		100
LCS 220-22533/2-A		100

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	50-150

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22682

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-22682/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2008 1317
Date Prepared: 12/08/2008 1317

Analysis Batch: 220-22682
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22682

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-22682/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2008 1317
Date Prepared: 12/08/2008 1317

Analysis Batch: 220-22682
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	53 - 125
4-Bromofluorobenzene	98	73 - 127
Dibromofluoromethane	97	54 - 137
Toluene-d8 (Surr)	86	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Lab Control Spike - Batch: 220-22682

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-22682/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2008 1218
Date Prepared: 12/08/2008 1218

Analysis Batch: 220-22682
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1318.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	10.0	16.9	169	18 - 263	
Acrylonitrile	20.0	17.3	86	60 - 140	
Benzene	10.0	9.44	94	68 - 126	
Bromobenzene	10.0	7.76	78	60 - 140	
n-Butylbenzene	10.0	7.65	77	60 - 140	
sec-Butylbenzene	10.0	8.59	86	60 - 140	
tert-Butylbenzene	10.0	7.71	77	60 - 140	
Bromodichloromethane	10.0	10.1	101	67 - 118	
Bromoform	10.0	8.07	81	63 - 115	
Bromomethane	10.0	12.7	127	27 - 171	
Methyl Ethyl Ketone	10.0	13.9	139	30 - 222	
Chlorobenzene	10.0	8.18	82	71 - 114	
Carbon disulfide	10.0	9.70	97	44 - 142	
Carbon tetrachloride	10.0	11.1	111	56 - 131	
Chloroethane	10.0	11.0	110	53 - 167	
Chloroform	10.0	10.2	102	70 - 124	
Chloromethane	10.0	10.2	102	43 - 134	
2-Chlorotoluene	10.0	6.84	68	60 - 140	
4-Chlorotoluene	10.0	8.21	82	60 - 140	
Dibromochloromethane	10.0	9.44	94	65 - 114	
1,2-Dibromo-3-Chloropropane	10.0	7.84	78	60 - 140	
1,2-Dibromoethane	10.0	8.19	82	60 - 140	
Dibromomethane	10.0	9.19	92	60 - 140	
1,2-Dichlorobenzene	10.0	7.90	79	75 - 120	
1,3-Dichlorobenzene	10.0	7.91	79	70 - 115	
1,4-Dichlorobenzene	10.0	7.92	79	75 - 119	
trans-1,4-Dichloro-2-butene	20.0	18.0	90	60 - 140	
Dichlorodifluoromethane	10.0	16.4	164	60 - 140	*
1,1-Dichloroethane	10.0	10.1	101	67 - 121	
1,2-Dichloroethane	10.0	10.5	105	68 - 124	
1,1-Dichloroethene	10.0	10.8	108	57 - 137	
cis-1,2-Dichloroethene	10.0	8.83	88	65 - 120	
trans-1,2-Dichloroethene	10.0	9.18	92	57 - 129	
1,2-Dichloropropane	10.0	8.91	89	69 - 122	
1,3-Dichloropropane	10.0	8.72	87	60 - 140	
2,2-Dichloropropane	10.0	11.1	111	60 - 140	
1,1-Dichloropropene	10.0	9.34	93	60 - 140	
cis-1,3-Dichloropropene	10.0	8.46	85	60 - 122	
trans-1,3-Dichloropropene	10.0	8.29	83	55 - 126	
Ethylbenzene	10.0	8.54	85	71 - 115	
Hexachlorobutadiene	10.0	8.48	85	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Lab Control Spike - Batch: 220-22682

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-22682/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2008 1218
Date Prepared: 12/08/2008 1218

Analysis Batch: 220-22682
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1318.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	10.0	7.03	70	54 - 179	
Isopropylbenzene	10.0	7.53	75	60 - 140	
4-Isopropyltoluene	10.0	7.65	77	60 - 140	
Methylene Chloride	10.0	10.4	104	61 - 129	
methyl isobutyl ketone	10.0	7.23	72	61 - 140	
Methyl tert-butyl ether	10.0	9.48	95	60 - 140	
Naphthalene	10.0	5.56	56	60 - 140	*
N-Propylbenzene	10.0	7.93	79	60 - 140	
Styrene	10.0	6.57	66	69 - 112	*
1,1,1,2-Tetrachloroethane	10.0	9.46	95	60 - 140	
1,1,2,2-Tetrachloroethane	10.0	8.37	84	66 - 129	
Toluene	10.0	8.86	89	70 - 116	
Tetrachloroethene	10.0	7.71	77	62 - 118	
Tetrahydrofuran	20.0	15.8	79	60 - 140	
1,2,3-Trichlorobenzene	10.0	6.78	68	60 - 140	
1,2,4-Trichlorobenzene	10.0	6.34	63	60 - 140	
1,1,1-Trichloroethane	10.0	10.8	108	60 - 128	
1,1,2-Trichloroethane	10.0	9.42	94	70 - 119	
Trichloroethene	10.0	8.93	89	58 - 125	
Trichlorofluoromethane	10.0	12.6	126	60 - 140	
1,2,3-Trichloropropane	10.0	8.37	84	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.0	110	60 - 140	
1,2,4-Trimethylbenzene	10.0	8.03	80	60 - 140	
1,3,5-Trimethylbenzene	10.0	7.88	79	60 - 140	
Vinyl chloride	10.0	10.1	101	51 - 139	
m&p-Xylene	20.0	16.7	83	57 - 126	
o-Xylene	10.0	7.68	77	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	53 - 125
4-Bromofluorobenzene	88	73 - 127
Dibromofluoromethane	89	54 - 137
Toluene-d8 (Surr)	82	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Matrix Spike Blank - Batch: 220-22682

Method: 8260B
Preparation: 5030B

Lab Sample ID: MSB 220-22682/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2008 1515
Date Prepared: 12/08/2008 1515

Analysis Batch: 220-22682
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	14.2	71	60 - 263	
Acrylonitrile	40.0	35.3	88	60 - 140	
Benzene	20.0	16.7	84	68 - 126	
Bromobenzene	20.0	14.1	71	60 - 140	
n-Butylbenzene	20.0	16.4	82	60 - 140	
sec-Butylbenzene	20.0	14.9	75	60 - 140	
tert-Butylbenzene	20.0	14.6	73	60 - 140	
Bromodichloromethane	20.0	19.1	95	67 - 118	
Bromoform	20.0	15.9	80	63 - 115	
Bromomethane	20.0	27.2	136	27 - 171	
Methyl Ethyl Ketone	20.0	15.8	79	30 - 222	
Chlorobenzene	20.0	15.1	76	71 - 114	
Carbon disulfide	20.0	16.4	82	44 - 142	
Carbon tetrachloride	20.0	19.0	95	56 - 131	
Chloroethane	20.0	24.8	124	53 - 167	
Chloroform	20.0	18.1	90	70 - 124	
Chloromethane	20.0	19.8	99	43 - 134	
2-Chlorotoluene	20.0	15.5	78	60 - 140	
4-Chlorotoluene	20.0	15.5	78	60 - 140	
Dibromochloromethane	20.0	17.8	89	65 - 114	
1,2-Dibromo-3-Chloropropane	20.0	17.4	87	60 - 140	
1,2-Dibromoethane	20.0	16.6	83	60 - 140	
Dibromomethane	20.0	17.9	90	60 - 140	
1,2-Dichlorobenzene	20.0	15.3	76	75 - 120	
1,3-Dichlorobenzene	20.0	14.9	74	70 - 115	
1,4-Dichlorobenzene	20.0	14.6	73	75 - 119	*
trans-1,4-Dichloro-2-butene	40.0	32.0	80	60 - 140	
Dichlorodifluoromethane	20.0	21.5	107	60 - 140	
1,1-Dichloroethane	20.0	17.7	89	67 - 121	
1,2-Dichloroethane	20.0	20.3	102	68 - 124	
1,1-Dichloroethene	20.0	16.5	83	57 - 137	
cis-1,2-Dichloroethene	20.0	16.0	80	65 - 120	
trans-1,2-Dichloroethene	20.0	16.1	81	57 - 129	
1,2-Dichloropropane	20.0	15.9	80	69 - 122	
1,3-Dichloropropane	20.0	16.4	82	60 - 140	
2,2-Dichloropropane	20.0	19.2	96	60 - 140	
1,1-Dichloropropene	20.0	16.1	81	60 - 140	
cis-1,3-Dichloropropene	20.0	17.9	89	60 - 122	
trans-1,3-Dichloropropene	20.0	17.6	88	55 - 126	
Ethylbenzene	20.0	16.0	80	71 - 115	
Hexachlorobutadiene	20.0	13.8	69	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Matrix Spike Blank - Batch: 220-22682

Method: 8260B
Preparation: 5030B

Lab Sample ID: MSB 220-22682/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2008 1515
Date Prepared: 12/08/2008 1515

Analysis Batch: 220-22682
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W1324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	20.0	12.3	61	54 - 179	
Isopropylbenzene	20.0	14.1	70	60 - 140	
4-Isopropyltoluene	20.0	15.1	75	60 - 140	
Methylene Chloride	20.0	17.5	87	61 - 129	
methyl isobutyl ketone	20.0	13.0	65	61 - 140	
Methyl tert-butyl ether	20.0	17.9	89	60 - 140	
Naphthalene	20.0	11.1	56	60 - 140	*
N-Propylbenzene	20.0	15.0	75	60 - 140	
Styrene	20.0	14.7	73	69 - 112	
1,1,1,2-Tetrachloroethane	20.0	17.3	87	60 - 140	
1,1,2,2-Tetrachloroethane	20.0	15.8	79	66 - 129	
Toluene	20.0	15.8	79	70 - 116	
Tetrachloroethene	20.0	13.8	69	62 - 118	
Tetrahydrofuran	40.0	32.3	81	60 - 140	
1,2,3-Trichlorobenzene	20.0	12.7	63	60 - 140	
1,2,4-Trichlorobenzene	20.0	12.5	63	60 - 140	
1,1,1-Trichloroethane	20.0	18.5	93	60 - 128	
1,1,2-Trichloroethane	20.0	18.1	91	70 - 119	
Trichloroethene	20.0	15.8	79	58 - 125	
Trichlorofluoromethane	20.0	26.3	131	60 - 140	
1,2,3-Trichloropropane	20.0	15.9	80	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.0	90	60 - 140	
1,2,4-Trimethylbenzene	20.0	16.0	80	60 - 140	
1,3,5-Trimethylbenzene	20.0	15.5	77	60 - 140	
Vinyl chloride	20.0	19.9	100	51 - 139	
m&p-Xylene	40.0	32.0	80	57 - 126	
o-Xylene	20.0	14.9	75	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	53 - 125
4-Bromofluorobenzene	84	73 - 127
Dibromofluoromethane	90	54 - 137
Toluene-d8 (Surr)	82	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22873

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-22873/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1239
Date Prepared: 12/12/2008 1239

Analysis Batch: 220-22873
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0371.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	2.0	U	0.53	2.0
Acrylonitrile	1.0	U	0.21	1.0
Benzene	0.50	U	0.065	0.50
Bromobenzene	0.50	U	0.080	0.50
n-Butylbenzene	0.50	U	0.094	0.50
sec-Butylbenzene	0.50	U	0.035	0.50
tert-Butylbenzene	0.50	U	0.049	0.50
Bromodichloromethane	0.50	U	0.057	0.50
Bromoform	0.50	U	0.085	0.50
Bromomethane	1.0	U	0.33	1.0
Methyl Ethyl Ketone	2.0	U	0.55	2.0
Chlorobenzene	0.50	U	0.14	0.50
Carbon disulfide	0.50	U	0.066	0.50
Carbon tetrachloride	0.50	U	0.057	0.50
Chloroethane	1.0	U	0.31	1.0
Chloroform	0.50	U	0.059	0.50
Chloromethane	0.50	U	0.10	0.50
2-Chlorotoluene	0.50	U	0.051	0.50
4-Chlorotoluene	0.50	U	0.16	0.50
Dibromochloromethane	0.50	U	0.043	0.50
1,2-Dibromo-3-Chloropropane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.068	0.50
Dibromomethane	0.50	U	0.085	0.50
1,2-Dichlorobenzene	0.50	U	0.049	0.50
1,3-Dichlorobenzene	0.50	U	0.15	0.50
1,4-Dichlorobenzene	0.50	U	0.094	0.50
trans-1,4-Dichloro-2-butene	1.0	U	0.34	1.0
Dichlorodifluoromethane	0.50	U	0.042	0.50
1,1-Dichloroethane	0.50	U	0.062	0.50
1,2-Dichloroethane	0.50	U	0.054	0.50
1,1-Dichloroethene	0.50	U	0.14	0.50
cis-1,2-Dichloroethene	0.50	U	0.11	0.50
trans-1,2-Dichloroethene	0.50	U	0.081	0.50
1,2-Dichloropropane	0.50	U	0.066	0.50
1,3-Dichloropropane	0.50	U	0.15	0.50
2,2-Dichloropropane	0.50	U	0.085	0.50
1,1-Dichloropropene	0.50	U	0.070	0.50
cis-1,3-Dichloropropene	0.50	U	0.17	0.50
trans-1,3-Dichloropropene	0.50	U	0.051	0.50
Ethylbenzene	0.50	U	0.040	0.50
Hexachlorobutadiene	0.50	U	0.063	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22873

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-22873/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1239
Date Prepared: 12/12/2008 1239

Analysis Batch: 220-22873
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0371.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	2.0	U	0.16	2.0
Isopropylbenzene	0.50	U	0.054	0.50
4-Isopropyltoluene	0.50	U	0.036	0.50
Methylene Chloride	2.0	U	0.091	2.0
methyl isobutyl ketone	2.0	U	0.049	2.0
Methyl tert-butyl ether	0.50	U	0.049	0.50
Naphthalene	0.50	U	0.050	0.50
N-Propylbenzene	0.50	U	0.047	0.50
Styrene	0.50	U	0.12	0.50
1,1,1,2-Tetrachloroethane	0.50	U	0.067	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.073	0.50
Toluene	0.50	U	0.054	0.50
Tetrachloroethene	0.50	U	0.062	0.50
Tetrahydrofuran	1.0	U	0.31	1.0
1,2,3-Trichlorobenzene	0.50	U	0.054	0.50
1,2,4-Trichlorobenzene	0.50	U	0.060	0.50
1,1,1-Trichloroethane	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.16	0.50
Trichloroethene	0.50	U	0.14	0.50
Trichlorofluoromethane	0.50	U	0.053	0.50
1,2,3-Trichloropropane	0.50	U	0.072	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.059	0.50
1,2,4-Trimethylbenzene	0.50	U	0.050	0.50
1,3,5-Trimethylbenzene	0.50	U	0.11	0.50
Vinyl chloride	0.50	U	0.090	0.50
m&p-Xylene	1.0	U	0.12	1.0
o-Xylene	0.50	U	0.080	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	53 - 125
4-Bromofluorobenzene	90	73 - 127
Dibromofluoromethane	111	54 - 137
Toluene-d8 (Surr)	90	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Lab Control Spike - Batch: 220-22873

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-22873/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1306
Date Prepared: 12/12/2008 1306

Analysis Batch: 220-22873
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0372.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	10.0	20.4	204	18 - 263	
Acrylonitrile	20.0	21.1	106	60 - 140	
Benzene	10.0	11.0	110	68 - 126	
Bromobenzene	10.0	8.47	85	60 - 140	
n-Butylbenzene	10.0	6.16	62	60 - 140	
sec-Butylbenzene	10.0	8.12	81	60 - 140	
tert-Butylbenzene	10.0	7.06	71	60 - 140	
Bromodichloromethane	10.0	10.4	104	67 - 118	
Bromoform	10.0	9.21	92	63 - 115	
Bromomethane	10.0	14.8	148	27 - 171	
Methyl Ethyl Ketone	10.0	12.7	127	30 - 222	
Chlorobenzene	10.0	9.52	95	71 - 114	
Carbon disulfide	10.0	11.2	112	44 - 142	
Carbon tetrachloride	10.0	9.77	98	56 - 131	
Chloroethane	10.0	15.4	154	53 - 167	
Chloroform	10.0	10.7	107	70 - 124	
Chloromethane	10.0	14.2	142	43 - 134	*
2-Chlorotoluene	10.0	6.26	63	60 - 140	
4-Chlorotoluene	10.0	8.00	80	60 - 140	
Dibromochloromethane	10.0	9.08	91	65 - 114	
1,2-Dibromo-3-Chloropropane	10.0	7.62	76	60 - 140	
1,2-Dibromoethane	10.0	8.00	80	60 - 140	
Dibromomethane	10.0	10.1	101	60 - 140	
1,2-Dichlorobenzene	10.0	9.06	91	75 - 120	
1,3-Dichlorobenzene	10.0	9.39	94	70 - 115	
1,4-Dichlorobenzene	10.0	9.09	91	75 - 119	
trans-1,4-Dichloro-2-butene	20.0	17.3	86	60 - 140	
Dichlorodifluoromethane	10.0	18.0	180	60 - 140	*
1,1-Dichloroethane	10.0	10.5	105	67 - 121	
1,2-Dichloroethane	10.0	10.3	103	68 - 124	
1,1-Dichloroethene	10.0	11.2	112	57 - 137	
cis-1,2-Dichloroethene	10.0	10.0	100	65 - 120	
trans-1,2-Dichloroethene	10.0	9.38	94	57 - 129	
1,2-Dichloropropane	10.0	9.44	94	69 - 122	
1,3-Dichloropropane	10.0	8.23	82	60 - 140	
2,2-Dichloropropane	10.0	10.2	102	60 - 140	
1,1-Dichloropropene	10.0	8.44	84	60 - 140	
cis-1,3-Dichloropropene	10.0	7.88	79	60 - 122	
trans-1,3-Dichloropropene	10.0	8.59	86	55 - 126	
Ethylbenzene	10.0	9.03	90	71 - 115	
Hexachlorobutadiene	10.0	7.67	77	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Lab Control Spike - Batch: 220-22873

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-22873/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1306
Date Prepared: 12/12/2008 1306

Analysis Batch: 220-22873
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0372.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	10.0	8.12	81	54 - 179	
Isopropylbenzene	10.0	7.00	70	60 - 140	
4-Isopropyltoluene	10.0	6.95	70	60 - 140	
Methylene Chloride	10.0	16.1	161	61 - 129	*
methyl isobutyl ketone	10.0	8.04	80	61 - 140	
Methyl tert-butyl ether	10.0	9.68	97	60 - 140	
Naphthalene	10.0	6.66	67	60 - 140	
N-Propylbenzene	10.0	7.45	75	60 - 140	
Styrene	10.0	7.41	74	69 - 112	
1,1,1,2-Tetrachloroethane	10.0	9.47	95	60 - 140	
1,1,2,2-Tetrachloroethane	10.0	8.95	89	66 - 129	
Toluene	10.0	8.86	89	70 - 116	
Tetrachloroethene	10.0	8.25	82	62 - 118	
Tetrahydrofuran	20.0	17.3	86	60 - 140	
1,2,3-Trichlorobenzene	10.0	7.80	78	60 - 140	
1,2,4-Trichlorobenzene	10.0	7.04	70	60 - 140	
1,1,1-Trichloroethane	10.0	10.3	103	60 - 128	
1,1,2-Trichloroethane	10.0	11.4	114	70 - 119	
Trichloroethene	10.0	10.0	100	58 - 125	
Trichlorofluoromethane	10.0	12.3	123	60 - 140	
1,2,3-Trichloropropane	10.0	8.59	86	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.5	115	60 - 140	
1,2,4-Trimethylbenzene	10.0	7.51	75	60 - 140	
1,3,5-Trimethylbenzene	10.0	6.83	68	60 - 140	
Vinyl chloride	10.0	12.2	122	51 - 139	
m&p-Xylene	20.0	17.6	88	57 - 126	
o-Xylene	10.0	7.61	76	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	103	54 - 137
Toluene-d8 (Surr)	89	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Matrix Spike Blank - Batch: 220-22873

Method: 8260B
Preparation: 5030B

Lab Sample ID: MSB 220-22873/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1425
Date Prepared: 12/12/2008 1425

Analysis Batch: 220-22873
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0375.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	18.0	90	60 - 263	
Acrylonitrile	40.0	45.1	113	60 - 140	
Benzene	20.0	20.5	102	68 - 126	
Bromobenzene	20.0	17.3	86	60 - 140	
n-Butylbenzene	20.0	17.9	89	60 - 140	
sec-Butylbenzene	20.0	16.9	85	60 - 140	
tert-Butylbenzene	20.0	15.9	79	60 - 140	
Bromodichloromethane	20.0	18.1	91	67 - 118	
Bromoform	20.0	18.7	93	63 - 115	
Bromomethane	20.0	26.4	132	27 - 171	
Methyl Ethyl Ketone	20.0	17.1	86	30 - 222	
Chlorobenzene	20.0	18.5	93	71 - 114	
Carbon disulfide	20.0	23.1	115	44 - 142	
Carbon tetrachloride	20.0	18.1	90	56 - 131	
Chloroethane	20.0	28.3	141	53 - 167	
Chloroform	20.0	18.1	91	70 - 124	
Chloromethane	20.0	24.4	122	43 - 134	
2-Chlorotoluene	20.0	17.8	89	60 - 140	
4-Chlorotoluene	20.0	18.0	90	60 - 140	
Dibromochloromethane	20.0	17.2	86	65 - 114	
1,2-Dibromo-3-Chloropropane	20.0	18.4	92	60 - 140	
1,2-Dibromoethane	20.0	16.4	82	60 - 140	
Dibromomethane	20.0	19.1	95	60 - 140	
1,2-Dichlorobenzene	20.0	18.9	94	75 - 120	
1,3-Dichlorobenzene	20.0	19.7	99	70 - 115	
1,4-Dichlorobenzene	20.0	18.0	90	75 - 119	
trans-1,4-Dichloro-2-butene	40.0	33.5	84	60 - 140	
Dichlorodifluoromethane	20.0	24.6	123	60 - 140	
1,1-Dichloroethane	20.0	19.1	96	67 - 121	
1,2-Dichloroethane	20.0	18.2	91	68 - 124	
1,1-Dichloroethene	20.0	19.9	100	57 - 137	
cis-1,2-Dichloroethene	20.0	19.4	97	65 - 120	
trans-1,2-Dichloroethene	20.0	18.4	92	57 - 129	
1,2-Dichloropropane	20.0	18.6	93	69 - 122	
1,3-Dichloropropane	20.0	16.1	81	60 - 140	
2,2-Dichloropropane	20.0	18.7	93	60 - 140	
1,1-Dichloropropene	20.0	17.3	86	60 - 140	
cis-1,3-Dichloropropene	20.0	16.2	81	60 - 122	
trans-1,3-Dichloropropene	20.0	18.2	91	55 - 126	
Ethylbenzene	20.0	19.0	95	71 - 115	
Hexachlorobutadiene	20.0	17.5	88	60 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Matrix Spike Blank - Batch: 220-22873

Method: 8260B
Preparation: 5030B

Lab Sample ID: MSB 220-22873/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1425
Date Prepared: 12/12/2008 1425

Analysis Batch: 220-22873
Prep Batch: N/A
Units: ug/L

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V0375.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Hexanone	20.0	15.5	77	54 - 179	
Isopropylbenzene	20.0	15.7	78	60 - 140	
4-Isopropyltoluene	20.0	16.3	81	60 - 140	
Methylene Chloride	20.0	26.3	131	61 - 129	*
methyl isobutyl ketone	20.0	15.0	75	61 - 140	
Methyl tert-butyl ether	20.0	19.1	95	60 - 140	
Naphthalene	20.0	15.4	77	60 - 140	
N-Propylbenzene	20.0	16.7	83	60 - 140	
Styrene	20.0	17.7	88	69 - 112	
1,1,1,2-Tetrachloroethane	20.0	17.3	86	60 - 140	
1,1,2,2-Tetrachloroethane	20.0	16.8	84	66 - 129	
Toluene	20.0	17.5	88	70 - 116	
Tetrachloroethene	20.0	18.1	90	62 - 118	
Tetrahydrofuran	40.0	37.9	95	60 - 140	
1,2,3-Trichlorobenzene	20.0	17.9	90	60 - 140	
1,2,4-Trichlorobenzene	20.0	16.0	80	60 - 140	
1,1,1-Trichloroethane	20.0	18.3	91	60 - 128	
1,1,2-Trichloroethane	20.0	19.5	97	70 - 119	
Trichloroethene	20.0	19.2	96	58 - 125	
Trichlorofluoromethane	20.0	25.2	126	60 - 140	
1,2,3-Trichloropropane	20.0	17.6	88	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.7	108	60 - 140	
1,2,4-Trimethylbenzene	20.0	16.9	85	60 - 140	
1,3,5-Trimethylbenzene	20.0	17.2	86	60 - 140	
Vinyl chloride	20.0	22.9	114	51 - 139	
m&p-Xylene	40.0	37.5	94	57 - 126	
o-Xylene	20.0	16.0	80	70 - 113	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83	53 - 125
4-Bromofluorobenzene	82	73 - 127
Dibromofluoromethane	91	54 - 137
Toluene-d8 (Surr)	90	63 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22570

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 220-22570/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 2015
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735214.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	0.50	U	0.075	0.50
PCB-1221	1.0	U	0.32	1.0
PCB-1232	0.50	U	0.075	0.50
PCB-1242	0.50	U	0.075	0.50
PCB-1248	0.50	U	0.075	0.50
PCB-1254	0.50	U	0.045	0.50
PCB-1260	0.50	U	0.047	0.50
PCB-1262	0.50	U	0.047	0.50
PCB-1268	0.50	U	0.047	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	92	29 - 156
Tetrachloro-m-xylene	88	53 - 144

Lab Control Spike - Batch: 220-22570

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 220-22570/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 2034
Date Prepared: 12/05/2008 1133

Analysis Batch: 220-22848
Prep Batch: 220-22570
Units: ug/L

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4735215.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.16	83	50 - 122	
PCB-1260	5.00	3.94	79	52 - 118	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	60	29 - 156
Tetrachloro-m-xylene	109	53 - 144

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22533

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: MB 220-22533/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/09/2008 0756
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548086.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	RL	RL
CT ETPH	100	U	100	100

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	100	50 - 150

Lab Control Spike - Batch: 220-22533

Method: CT ETPH
Preparation: 3510C

Lab Sample ID: LCS 220-22533/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/09/2008 0822
Date Prepared: 12/04/2008 1124

Analysis Batch: 220-22671
Prep Batch: 220-22533
Units: ug/L

Instrument ID: HP5890 with FID/NPD
Lab File ID: C2548087.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
CT ETPH	1500	1450	97	60 - 120	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	100	50 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22596

Method: 6020
Preparation: 3010A

Lab Sample ID: MB 220-22596/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1238
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Result	Qual	MDL	RL
Silver	2.5	U	0.80	2.5
Arsenic	2.5	U	0.50	2.5
Barium	2.5	U	0.50	2.5
Cadmium	2.5	U	0.50	2.5
Chromium	5.0	U	0.55	5.0
Copper	5.0	U	0.50	5.0
Nickel	2.5	U	0.65	2.5
Lead	2.5	U	0.55	2.5
Selenium	5.0	U	1.5	5.0
Zinc	25	U	2.5	25

Lab Control Spike - Batch: 220-22596

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 220-22596/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1242
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 500 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	300	330	110	80 - 120	
Arsenic	1000	1060	106	80 - 120	
Barium	300	303	101	80 - 120	
Cadmium	300	312	104	80 - 120	
Chromium	300	314	105	80 - 120	
Copper	300	331	110	80 - 120	
Nickel	300	329	110	80 - 120	
Lead	1000	1010	101	80 - 120	
Selenium	500	529	106	80 - 120	
Zinc	300	327	109	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Matrix Spike - Batch: 220-22596

Method: 6020
Preparation: 3010A

Lab Sample ID: 220-7366-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1333
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	2.5	U	25.0	25.8	103	75 - 125	
Arsenic	2.5	U	20.0	21.4	107	75 - 125	
Barium	47		1000	1010	96	75 - 125	
Cadmium	2.5	U	25.0	25.5	102	75 - 125	
Chromium	5.0	U	100	99.0	98	75 - 125	
Copper	5.0	U	125	136	108	75 - 125	
Nickel	2.5	U	250	262	104	75 - 125	
Lead	2.5	U	10.0	11.1	111	75 - 125	
Selenium	5.0	U	25.0	26.5	106	75 - 125	
Zinc	25	U	250	265	105	75 - 125	

Duplicate - Batch: 220-22596

Method: 6020
Preparation: 3010A

Lab Sample ID: 220-7366-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1330
Date Prepared: 12/05/2008 1548

Analysis Batch: 220-22765
Prep Batch: 220-22596
Units: ug/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 500 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	2.5	U	2.5	NC	20	U
Arsenic	2.5	U	2.5	NC	20	U
Barium	47		46.3	2	20	
Cadmium	2.5	U	2.5	NC	20	U
Chromium	5.0	U	5.0	20	20	U
Copper	5.0	U	5.0	2	20	U
Nickel	2.5	U	2.5	7	20	U
Lead	2.5	U	2.5	NC	20	U
Selenium	5.0	U	5.0	NC	20	U
Zinc	25	U	25	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
Sdg Number: 220-7366-1

Method Blank - Batch: 220-22642

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 220-22642/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/09/2008 1111
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.090	0.20

Lab Control Spike - Batch: 220-22642

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 220-22642/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/09/2008 1111
Date Prepared: 12/08/2008 1541

Analysis Batch: 220-22663
Prep Batch: 220-22642
Units: ug/L

Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.17	103	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2548071.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 05-DEC-2008 20:53 05-DEC-2008 23:07
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 09-DEC-2008 01:12
Lab File ID: C2548071.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.48	1.43	1.53	84463	74950	12.6
C10 n-decane	2.05	2	2.1	83565	74950	11.4
C12 n-dodecane	3.13	3.08	3.18	80672	74950	7.6
C14 n-tetradecane	4.09	4.04	4.14	79113	74950	5.5
C16 n-hexadecane	4.94	4.89	4.99	77965	74950	4
C18 n-octadecane	5.71	5.66	5.76	75428	74950	0.6
C20 n-eicosane	6.41	6.36	6.46	74382	74950	-0.7
C22 n-docosane	7.04	6.99	7.09	75079	74950	0.1
C24 n-tetracosane	7.63	7.58	7.68	72686	74950	-3
C26 n-hexacosane	8.18	8.13	8.23	71964	74950	-3.9
C28 n-octacosane	8.68	8.63	8.73	71273	74950	-4.9
C30 n-triacontane	9.16	9.11	9.21	71255	74950	-4.9
C32 n-dotriacontane	9.6	9.55	9.65	68589	74950	-8.4
C34 n-tetratriacontane	10.03	9.98	10.08	68647	74950	-8.4
C36 n-hexatriacontane	10.52	10.47	10.57	69181	74950	-7.6

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2548071.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 05-DEC-2008 20:53 05-DEC-2008 23:07
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 09-DEC-2008 12:51
Lab File ID: C2548096.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.48	1.43	1.53	95559	87774	8.8
C10 n-decane	2.05	2	2.1	96323	87774	9.7
C12 n-dodecane	3.13	3.08	3.18	94228	87774	7.3
C14 n-tetradecane	4.09	4.04	4.14	92372	87774	5.2
C16 n-hexadecane	4.94	4.89	4.99	91169	87774	3.8
C18 n-octadecane	5.71	5.66	5.76	88967	87774	1.3
C20 n-eicosane	6.4	6.35	6.45	88085	87774	0.3
C22 n-docosane	7.04	6.99	7.09	88700	87774	1
C24 n-tetracosane	7.63	7.58	7.68	86672	87774	-1.2
C26 n-hexacosane	8.18	8.13	8.23	85084	87774	-3
C28 n-octacosane	8.68	8.63	8.73	84155	87774	-4.1
C30 n-triacontane	9.16	9.11	9.21	83991	87774	-4.3
C32 n-dotriacontane	9.6	9.55	9.65	80757	87774	-7.9
C34 n-tetratriacontane	10.03	9.98	10.08	80162	87774	-8.6
C36 n-hexatriacontane	10.52	10.47	10.57	80388	87774	-8.4

PERFORMANCE VERIFICATION
CT-ETPH

Lab Name: TestAmerica Inc
Lab Code: TestAmerica Inc Case No: SDG No:
Instrument: hp5890-2c.i Sequence: \\consvr05\files\chem\GC\hp5890-2c.i\c2548071.b
Column: RTX-1 ID: 0.53 Init. Calib Dates(s): 05-DEC-2008 20:53 05-DEC-2008 23:07
Sample No. (Alkane): CCV-177786:ETPH4 Date Analyzed: 09-DEC-2008 15:35
Lab File ID: C2548101.d

Compound	RT	RT Window FROM	RT Window TO	RF	AVG RF	%DIFF
C9 n-nonane	1.48	1.43	1.53	91701	82402	11.2
C10 n-decane	2.05	2	2.1	91680	82402	11.2
C12 n-dodecane	3.13	3.08	3.18	88933	82402	7.9
C14 n-tetradecane	4.09	4.04	4.14	87068	82402	5.6
C16 n-hexadecane	4.94	4.89	4.99	85956	82402	4.3
C18 n-octadecane	5.71	5.66	5.76	83342	82402	1.1
C20 n-eicosane	6.41	6.36	6.46	82277	82402	-0.1
C22 n-docosane	7.05	7	7.1	83100	82402	0.8
C24 n-tetracosane	7.63	7.58	7.68	80883	82402	-1.8
C26 n-hexacosane	8.18	8.13	8.23	79610	82402	-3.3
C28 n-octacosane	8.68	8.63	8.73	78501	82402	-4.7
C30 n-triacontane	9.16	9.11	9.21	78529	82402	-4.7
C32 n-dotriacontane	9.6	9.55	9.65	75483	82402	-8.3
C34 n-tetratriacontane	10.03	9.98	10.08	74606	82402	-9.4
C36 n-hexatriacontane	10.53	10.48	10.58	74363	82402	-9.7

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Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client	Project Manager	Date	Chain of Custody Number
LEA	Tom Salimeno	12/2/08	015490

Address	Telephone Number (Area Code)/Fax Number/e-mail address	Field Telephone Number	Page 1 of 3
100 Northwest Dr			

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F+H GW monitoring East Hartford CT

Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 22001162-0

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)		Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other Ice	VOC's	PCB	ETPH	Metals						Comments
✓ 1113230	1	12/2/08	10:10	X						X			X	X									
✓ 1113230 uf	2	↓	10:10	↓					X				X				X						
✓ 1113230	3		10:10				X						X		X	X							
✓ 1113231	4		12:15							X			X	X									
✓ 1113231 uf	5		12:15						X				X				X						
✓ 1113231	6		12:15				X						X		X	X							
✓ 1113235	7		12:15							X			X	X									PASSED RAD SCREEN 2.9°C
✓ 1113235 uf	8		12:15						X				X				X						3.4°C
✓ 1113235	9		12:15				X						X		X	X							2.6°C
✓ 1113234	10	↓	9:00	↓						X			X	X									Trip Blank

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

State Regulatory QC Requirements: CT - RCP

	Date	Time		Date	Time
1. Relinquished By: Nathan Emmons	12/2/08	4:30	1. Received By: LEA fridge		
2. Relinquished By: [signature]	12/3/08	1530	2. Received By: [signature]	12/3/08	15:30
3. Received By:			Cooler Temps: [signature] 12/3/08 1930	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Associates	Tom Salimeno	12-2-08	015492
Address	**Telephone Number (Area Code)/Fax Number/e-mail address**	**Field Telephone Number**	Page 2 of 3
100 Northwest Drive	860-747-6181		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062		

Project Name and Location (State): F&H Building, D&W East Hartford

Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Contract/Purchase Order/Project No.: 22001162-0

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Matrix: Solid	Matrix: Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other → ICE	PCBs	CTETPH	Metals	VOCs by 8260						Comments
✓ 1113226 (11)	12-2-08	0945	✓						✓			✓				X						
✓ 1113226 (12)	↓	0945										✓	X	X								
✓ 1113226uf (13)	↓	0945						✓				✓			X							
✓ 1113227 (14)	↓	1140							✓			✓				X						
✓ 1113227 (15)	↓	1140										✓	X	X								
✓ 1113227uf (16)	↓	1140						✓				✓			X							PASSED RAD SCREEN
✓ 1113228 (17)	↓	1335							✓			✓				X						
✓ 1113228 (18)	↓	1335										✓	X	X								
✓ 1113228uf (19)	12-2-08	1335						✓				✓			X							3.4
																						2.9°C
																						2.6°C

Turn Around Time Required (business days) Report / EDD Requirements: ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

State Regulatory QC Requirements: CT-RCP

	Date	Time		Date	Time
1. Relinquished By: [signature]	12/2/08	4:30	1. Received By: LEA fridge		
2. Relinquished By: [signature]	12/3/08	1530	2. Received By: [signature]	12/3/08	15:30
3. Received By:			Cooler Temps: [signature] 12/3/08 19:30	Passed Rad. Screen (Lab Use Only) ☐ Yes ☐ No	

Comments

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

12/18/2008

Chain of Custody Record

Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: 203-929-8140
Fax: 203-929-8142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-0015 (0508)

Client: Loureiro Engineering Assc.	Project Manager: Tom Salimeno	Date: 12/2/08	Chain of Custody Number: 015491
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number/e-mail address: (860) 747-6181	Field Telephone Number:	Page 3 of 3
City: Plainville; State: CT; Zip Code: 06062	Site Contact:	Lab Contact:	
Project Name and Location (State): F+H Building P+W East Hartford	Sample Disposal: ☑ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)		
Contract/Purchase Order/Project No.: 22001162-0			

Analysis (Attach list if more space is needed)

Field Sample I.D. (Containers for each sample may be combined on one line)	Collection Date	Collection Time	Matrix: Aqueous	Solid	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other TPE	VOC's	PCB's	ETPH	Metals	Comments
✓ 1113229 (20)	12/2/08	14:30	X						X			X	X				
✓ 1113229 uf (21)	↓	14:30	↓					X				X				X	
✓ 1113229 (22)	↓	14:30	↓			X						X		X	X		
✓ 1113232 (23)	↓	15:00	↓						X			X	X				
✓ 1113232 uf (24)	↓	15:00	↓					X				X				X	
✓ 1113232 (25)	12/2/08	15:00	X			X						X		X	X		PASSED RAD SCREEN
																	3.4'
																	2.9°C
																	2.6°C

Turn Around Time Required (business days) Report / EDD Requirements
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☑ Other Standard

State Regulatory QC Requirements: CT-RCP

1. Relinquished By: Nathan Emmons	Date: 12/2/08	Time: 4:30	1. Received By: LEA fridge	Date:	Time:
2. Relinquished By: [signature]	Date: 12/3/08	Time: 15:30	2. Received By: [signature]	Date: 12/3/08	Time: 15:30
3. Received By:	Date:	Time:	Cooler Temps: [signature] 12/3/08 19:30	Passed Rad. Screen (Lab Use Only): ☐ Yes ☐ No	

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:

Client:

Client Project:

Lab Number	Preservative	pH	Adjustment (mLs)	pH after Adjustment	Preservative Lot Number	Chlorine Residual	Initials	Date
73666- 02	HNO3	<2	N/A	N/A	N/A	N/A	LB	12/4/08
05		<2						
08		<2						
13		<2						
16		<2						
19		<2						
21		<2						
24		<2						
03x4	N/A	N/A				0		
06x4						0		
09x4						0		
12x4						0		
15x4						0		
18x4						0		
22x4						0		
73666- 25x4						0		

[illegible] 12/4/08

TestAmerica Form# SMF00206.CT

TestAmerica - Connecticut
Internal Chain-of-Custody

220-73606
LEA-UTC F+H GW monitoring

Trip Blank: —

QC: — Air: —

FB: —

Soil: — Water: 1-25

Date Received: 12/3/08

Sample #s: 1-25

Locations: 98A, R-1V

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
3,6,9,12,15,18,22,25	ILB	[illegible]	12/4	11:12	EXT	USED			
3,6,9,12,15,18,22,25	ILB	BH	12/5	930	EXT	used			
2,5,8,13,16,19,21,24	ILB	JV	12/5	1305	MTR	JV	ILB	12/5	1600
2,5,8,13,16,19,21,24,3	ILB	JV	12/8	1335	MTR	JV	ILB	12/8	1555
1,4,7,10,11	ILB	BM	12/8	1630	VOA	used	MSH		
1-25	MSH	BM	12/12	11:45	VOA	use	MSH		

TestAmerica Form# SMF00508.CT

TestAmerica Connecticut GC-GC/MS Extract Chain of Custody

JOB NO: 220-7366

Fraction: BNA / Pesticide-PCB / Herbicide / O/P Pesticide / DRO / CT ETPH / Other
(Circle one)

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
3,6,9,12, 15,18,22,25	12/05	1748	[illegible]	GO					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
3,9,12, 15,18,22,25	12/12	1100	AN	KS	12/12/08	1122	UO	KS

Codes: SC = Screening AN = Analysis

Verified By: [signature] Date: 12/17/08

Lab Form: SMF01203.CT

JOB NO: 220-7366

Fraction: BNA / Pesticide-PCB / Herbicide / O/P Pesticide / DRO / CT ETPH / Other
(Circle one)

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
3,6,9,12,15	12-5	12:45	[illegible]	2					
18, 22, 25	12-5	12:45	[illegible]	2					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
3,6,9,12,15,18 22,25	12/08/08	17:00	AN	[illegible]	12/08/08	18:00	2	[illegible]

Codes: SC = Screening AN = Analysis

Verified By: Cheryl Ann Cascella Date: 12/17/08

Lab Form: SMF01203.CT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA CONNECTICUT - CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number: 7366 **Sample Numbers:** 2, 5, 8, 13, 16, 19, 21, 24

Prep Batch Number: 22596, 22692

WATER - SOIL - SLUDGE - TCLP/SPLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the transfer of these digestates to the metals instrument lab.:

Sample Prep:

Analysts	12/5/08 Date(s)	**ICP**
Analysts	12/15/08 Date(s)	**Mercury**

I confirm that I have performed the analysis below following SOP guidelines:

Analysis:

Analysts	12/15/08 Date(s)	**ICP**
Chemist	12/15/08 Date(s)	**Mercury**

I have reviewed and authorized the release of the job:

Complete: Supervisor — Date: 12/15/08

QAF02602.CT

Login Sample Receipt Check List

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-7366-1
SDG Number: 220-7366-1

Login Number: 7366
Creator: Blocker, Kristina
List Number: 1

List Source: TestAmerica Connecticut

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ATTACHMENT B-4

Data Quality Assessment Worksheets

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-4404
Date Samples Collected: 3/11/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
1316372	220-4404-1, -12	HB-MW-06	Acetone	LCS	194		high	RCP poorly performing compound
			Chloroethane	LCS	133		high	
			Dichlorodifluoromethane	LCS	159		high	RCP poorly performing compound
			Methyl Ethyl Keytone	LCS	153		high	RCP poorly performing compound
			trans-1,4-Dichlorobutene	LCS	163		high	
1316373	220-4404-2, -13	HB-MW-05	Acetone	LCS	151		high	RCP poorly performing compound
			Dichlorodifluoromethane	LCS	138		high	RCP poorly performing compound
			Methyl Ethyl Keytone	LCS	139		high	RCP poorly performing compound
			trans-1,4-Dichlorobutene	LCS	150		high	
1316374	220-4404-3, -14	FB-MW-02	All PCBs	Surrogate recovery	44		low	Within RCP limits, but outside lab limits
			Chloroethane	LCS	69		low	
			Chloromethane	LCS	134		high	
			Trichlorofluoromethane	LCS	69		low	
			trans-1,4-Dichlorobutene	LCS	142		high	
1316368	220-4404-4, -15	HB-MW-04	Acetone	LCS	151		high	RCP poorly performing compound
			Dichlorodifluoromethane	LCS	138		high	RCP poorly performing compound
			Methyl Ethyl Keytone	LCS	139		high	RCP poorly performing compound
			trans-1,4-Dichlorobutene	LCS	150		high	
1316371	220-4404-5, -16	HB-MW-04	Acetone	LCS	151		high	RCP poorly performing compound
			Dichlorodifluoromethane	LCS	138		high	RCP poorly performing compound
			Methyl Ethyl Keytone	LCS	139		high	RCP poorly performing compound
			trans-1,4-Dichlorobutene	LCS	150		high	
1316369	220-4404-6, -17	FB-MW-01	Acetone	LCS	151		high	RCP poorly performing compound
			Dichlorodifluoromethane	LCS	138		high	RCP poorly performing compound
			Methyl Ethyl Keytone	LCS	139		high	RCP poorly performing compound
			trans-1,4-Dichlorobutene	LCS	150		high	
1316370	220-4404-7, -18	HB-MW-07	Chloroethane	LCS	69		low	
			Chloromethane	LCS	134		high	
			Trichlorofluoromethane	LCS	69		low	
			trans-1,4-Dichlorobutene	LCS	142		high	
1316375	220-4404-8, -19	EQUIPMENT	Chloroethane	LCS	69		low	
			Chloromethane	LCS	134		high	
			Trichlorofluoromethane	LCS	69		low	

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-4404
Date Samples Collected: 3/11/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			trans-1,4-Dichlorobutene	LCS	142		high	
1316376	220-4404-9	TRIP BLANK	Chloroethane	LCS	69		low	
			Chloromethane	LCS	134		high	
			Trichlorofluoromethane	LCS	69		low	
			trans-1,4-Dichlorobutene	LCS	142		high	
1316377	220-4404-10	PE SAMPLE						No QC issues
1316378	220-4404-11, -20	PE SAMPLE	Chloroethane	LCS	69		low	
			Chloromethane	LCS	134		high	
			Trichlorofluoromethane	LCS	69		low	
			trans-1,4-Dichlorobutene	LCS	142		high	
1316378	220-4404-11R1	PE SAMPLE	Acetone	LCS	194		high	RCP poorly performing compound
			Chloroethane	LCS	133		high	
			Dichlorodifluoromethane	LCS	159		high	RCP poorly performing compound
			Methyl Ethyl Keytone	LCS	153		high	RCP poorly performing compound
			trans-1,4-Dichlorobutene	LCS	163		high	

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-5275
Date Samples Collected: 6/3/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
1324112	220-5275-1, -2	HB-MW-04	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324113	220-5275-3, -4	HB-MW-05	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-5275
Date Samples Collected: 6/3/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324114	220-5275-5, -6	FB-MW-02	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324115	220-5275-7, -8	HB-MW-06	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-5275
Date Samples Collected: 6/3/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324116	220-5275-9, -10	HB-MW-07	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324117	220-5275-11, -12	FB-MW-01	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-5275
Date Samples Collected: 6/3/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324120	220-5275-13, -14	HB-MW-04	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324118	220-5275-15TB	TRIP BLANK	Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-5275
Date Samples Collected: 6/3/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	
1324119	220-5275-16, -17	EQUIPMENT	All VOC compounds	Surrogate %R	65		low	
			Dichlorodifluoromethane	LCS	145		high	RCP poorly performing compound
			Methylene chloride	LCS	59		low	
			n-Butylbenzene	LCS	62		low	
			Dichlorodifluoromethane	ICAL		21.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloromethane	ICAL		24.8	non-directional	%RSD noted
			Bromomethane	ICAL		34.8	non-directional	%RSD noted, RCP poorly performing compound
			Chloroethane	ICAL		15.3	non-directional	%RSD noted
			Trichlorofluoromethane	ICAL		18.6	non-directional	%RSD noted
			Acrolein	ICAL		28.9	non-directional	%RSD noted
			Methylene chloride	ICAL		65.8	non-directional	%RSD noted
			Acetone	ICAL		23.9	non-directional	%RSD noted, RCP poorly performing compound
			Styrene	ICAL		23.7	non-directional	%RSD noted, RCP poorly performing compound
			trans-1,4-dichloro-2-butene	ICAL		16	non-directional	%RSD noted
			1,2,4-Trimethylbenzene	ICAL		15.9	non-directional	%RSD noted
			n-Butylbenzene	ICAL		17.1	non-directional	%RSD noted
			1,2,4-Trichlorobenzene	ICAL		33.8	non-directional	%RSD noted
			4-Bromofluorobenzene	ICAL		18.5	non-directional	%RSD noted

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-5275
Date Samples Collected: 6/3/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			Methylene chloride	CCV	>30% Diff (46%)		non-directional	

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-6459
Date Samples Collected: 9/8/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
1104636	220-6459-1, -2, -3	HB-MW-06	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104637	220-6459-4, -5, -6	HB-MW-06	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104638	220-6459-7, -8, -9	FB-MW-01	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104641	220-6459-10, -11, -12	HB-MW-04	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104640	220-6459-13, -14, -15	FB-MW-02	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104632	220-6459-16, -17, -18	HB-MW-05	Acetone	LCS	141		high	RCP poorly performing compound
			Dichlorodifluoromethane	LCS	152		high	RCP poorly performing compound
1104633	220-6459-19, -20, -21	HB-MW-07	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104643	220-6459-22TB	TRIP BLANK	Acetone	LCS	179		high	RCP poorly performing compound
			Methyl ethyl keytone	LCS	134		high	
			Dichlorodifluoromethane	LCS	158		high	RCP poorly performing compound
1104642	220-6459-23, -24, -25	EQUIPMENT	Acetone	LCS	141		high	RCP poorly performing compound
			Dichlorodifluoromethane	LCS	152		high	RCP poorly performing compound

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building

RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-7366
Date Samples Collected: 12/2/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
1113230	220-7366-1, -2, -3	FB-MW-01	Chloroethane	CCV		42.6	non-directional	
			Chloromethane	CCV		38.5	non-directional	
			Dichlorodifluoromethane	CCV		33.5	non-directional	RCP poorly performing compound
			Acetone	LCS	204		high	RCP poorly performing compound
			n-Butylbenzene	LCS	62		low	
			Bromomethane	LCS	148		high	RCP poorly performing compound
			Chloroethane	LCS	154		high	
			Chloromethane	LCS	142		high	
			2-Chlorotoluene	LCS	63		low	
			Dichlorodifluoromethane	LCS	180		high	RCP poorly performing compound
			Methylene chloride	LCS	161		high	RCP poorly performing compound
			Naphthalene	LCS	67		low	RCP poorly performing compound
			1,3,5-Trimethylbenzene	LCS	68		low	
1113231	220-7366-4, -5, -6	HB-MW-05	Chloroethane	CCV		42.6	non-directional	
			Chloromethane	CCV		38.5	non-directional	
			Dichlorodifluoromethane	CCV		33.5	non-directional	RCP poorly performing compound
			Acetone	LCS	204		high	RCP poorly performing compound
			n-Butylbenzene	LCS	62		low	
			Bromomethane	LCS	148		high	RCP poorly performing compound
			Chloroethane	LCS	154		high	
			Chloromethane	LCS	142		high	
			2-Chlorotoluene	LCS	63		low	
			Dichlorodifluoromethane	LCS	180		high	RCP poorly performing compound
			Methylene chloride	LCS	161		high	RCP poorly performing compound
			Naphthalene	LCS	67		low	RCP poorly performing compound
			1,3,5-Trimethylbenzene	LCS	68		low	
1113235	220-7366-7, -8, -9	HB-MW-05	2-Hexanone	CCV		31.9	non-directional	RCP poorly performing compound
			Naphthalene	CCV		35.7	non-directional	RCP poorly performing compound
			Bromomethane	CCV		41.9	non-directional	RCP poorly performing compound
			Acetone	LCS	169		high	RCP poorly performing compound
			Methyle ethyl keytone	LCS	139		high	RCP poorly performing compound
			2-Chlorotoluene	LCS	68		low	
			Dichlorodifluoromethane	LCS	164		high	RCP poorly performing compound
			Naphthalene	LCS	56		low	RCP poorly performing compound
			Styrene	LCS	66		low	RCP poorly performing compound
			1,2,3-Trichlorobenzene	LCS	68		low	

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-7366
Date Samples Collected: 12/2/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			1,2,4-Trichlorobenzene	LCS	63		low	
1113234	220-7366-10	TRIP BLANK	2-Hexanone	CCV		31.9	non-directional	RCP poorly performing compound
			Naphthalene	CCV		35.7	non-directional	RCP poorly performing compound
			Bromomethane	CCV		41.9	non-directional	RCP poorly performing compound
			Acetone	LCS	169		high	RCP poorly performing compound
			Methyle ethyl keytone	LCS	139		high	RCP poorly performing compound
			2-Chlorotoluene	LCS	68		low	
			Dichlorodifluoromethane	LCS	164		high	RCP poorly performing compound
			Naphthalene	LCS	56		low	RCP poorly performing compound
			Styrene	LCS	66		low	RCP poorly performing compound
			1,2,3-Trichlorobenzene	LCS	68		low	
			1,2,4-Trichlorobenzene	LCS	63		low	
1113226	220-7366-11, -12, -13	HB-MW-04	2-Hexanone	CCV		31.9	non-directional	RCP poorly performing compound
			Naphthalene	CCV		35.7	non-directional	RCP poorly performing compound
			Bromomethane	CCV		41.9	non-directional	RCP poorly performing compound
			Acetone	LCS	169		high	RCP poorly performing compound
			Methyle ethyl keytone	LCS	139		high	RCP poorly performing compound
			2-Chlorotoluene	LCS	68		low	
			Dichlorodifluoromethane	LCS	164		high	RCP poorly performing compound
			Naphthalene	LCS	56		low	RCP poorly performing compound
			Styrene	LCS	66		low	RCP poorly performing compound
			1,2,3-Trichlorobenzene	LCS	68		low	
			1,2,4-Trichlorobenzene	LCS	63		low	
1113227	220-7366-14, -15, -16	FB-MW-02	Chloroethane	CCV		42.6	non-directional	
			Chloromethane	CCV		38.5	non-directional	
			Dichlorodifluoromethane	CCV		33.5	non-directional	RCP poorly performing compound
			Acetone	LCS	204		high	RCP poorly performing compound
			n-Butylbenzene	LCS	62		low	
			Bromomethane	LCS	148		high	RCP poorly performing compound
			Chloroethane	LCS	154		high	
			Chloromethane	LCS	142		high	
			2-Chlorotoluene	LCS	63		low	
			Dichlorodifluoromethane	LCS	180		high	RCP poorly performing compound
			Methylene chloride	LCS	161		high	RCP poorly performing compound

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

Laboratory: Test America
SDG: 220-7366
Date Samples Collected: 12/2/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			Naphthalene	LCS	67		low	RCP poorly performing compound
			1,3,5-Trimethylbenzene	LCS	68		low	
1113228	220-7366-17, -18, -19	HB-MW-06	Chloroethane	CCV		42.6	non-directional	
			Chloromethane	CCV		38.5	non-directional	
			Dichlorodifluoromethane	CCV		33.5	non-directional	RCP poorly performing compound
			Acetone	LCS	204		high	RCP poorly performing compound
			n-Butylbenzene	LCS	62		low	
			Bromomethane	LCS	148		high	RCP poorly performing compound
			Chloroethane	LCS	154		high	
			Chloromethane	LCS	142		high	
			2-Chlorotoluene	LCS	63		low	
			Dichlorodifluoromethane	LCS	180		high	RCP poorly performing compound
			Methylene chloride	LCS	161		high	RCP poorly performing compound
			Naphthalene	LCS	67		low	RCP poorly performing compound
			1,3,5-Trimethylbenzene	LCS	68		low	
1113229	220-7366-20, -21, -22	EQUIPMENT	Chloroethane	CCV		42.6	non-directional	
			Chloromethane	CCV		38.5	non-directional	
			Dichlorodifluoromethane	CCV		33.5	non-directional	RCP poorly performing compound
			Acetone	LCS	204		high	RCP poorly performing compound
			n-Butylbenzene	LCS	62		low	
			Bromomethane	LCS	148		high	RCP poorly performing compound
			Chloroethane	LCS	154		high	
			Chloromethane	LCS	142		high	
			2-Chlorotoluene	LCS	63		low	
			Dichlorodifluoromethane	LCS	180		high	RCP poorly performing compound
			Methylene chloride	LCS	161		high	RCP poorly performing compound
			Naphthalene	LCS	67		low	RCP poorly performing compound
			1,3,5-Trimethylbenzene	LCS	68		low	
1113232	220-7366-23, -24, -25	HB-MW-07	Chloroethane	CCV		42.6	non-directional	
			Chloromethane	CCV		38.5	non-directional	
			Dichlorodifluoromethane	CCV		33.5	non-directional	RCP poorly performing compound
			Acetone	LCS	204		high	RCP poorly performing compound
			n-Butylbenzene	LCS	62		low	

2008 Annual Post-Remediation Maintenance and Monitoring Report - F&H Building
RCP Data Quality Assessment

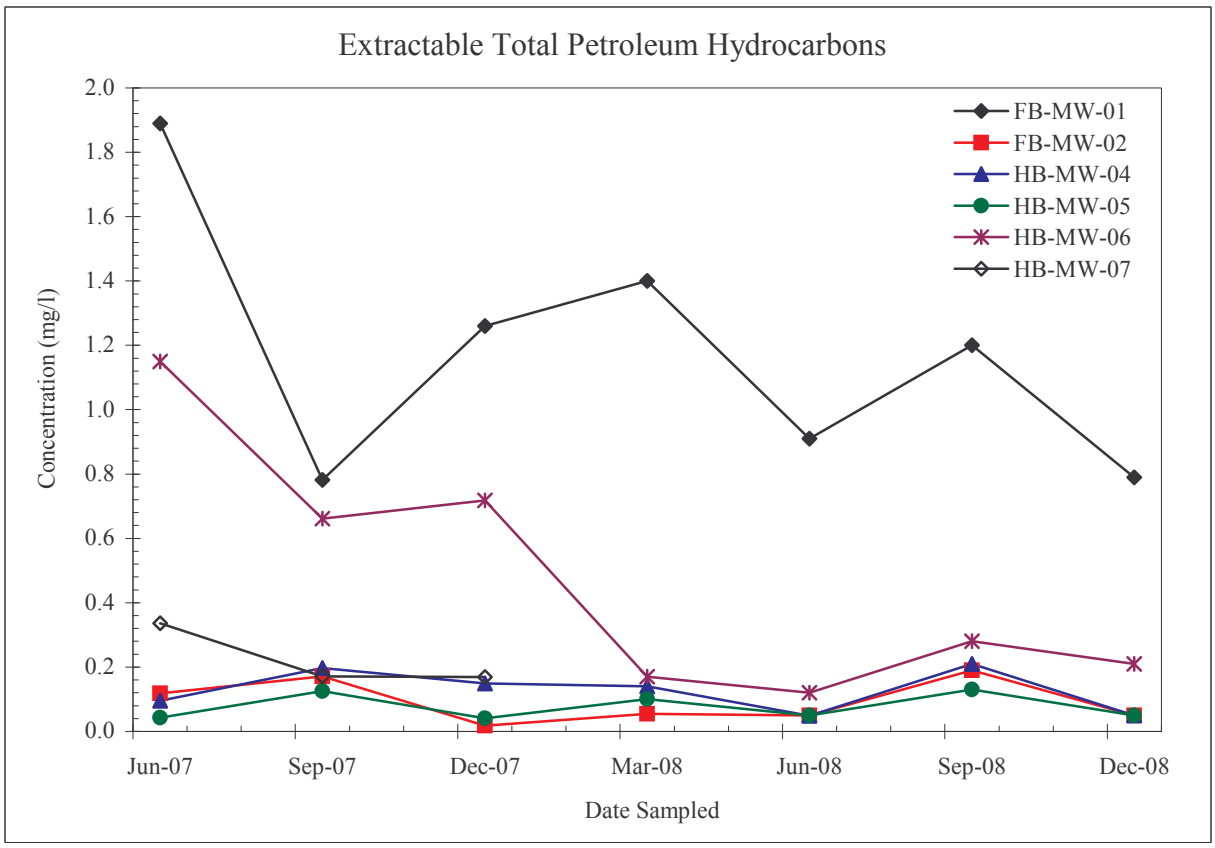
Laboratory: Test America
SDG: 220-7366
Date Samples Collected: 12/2/2008
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

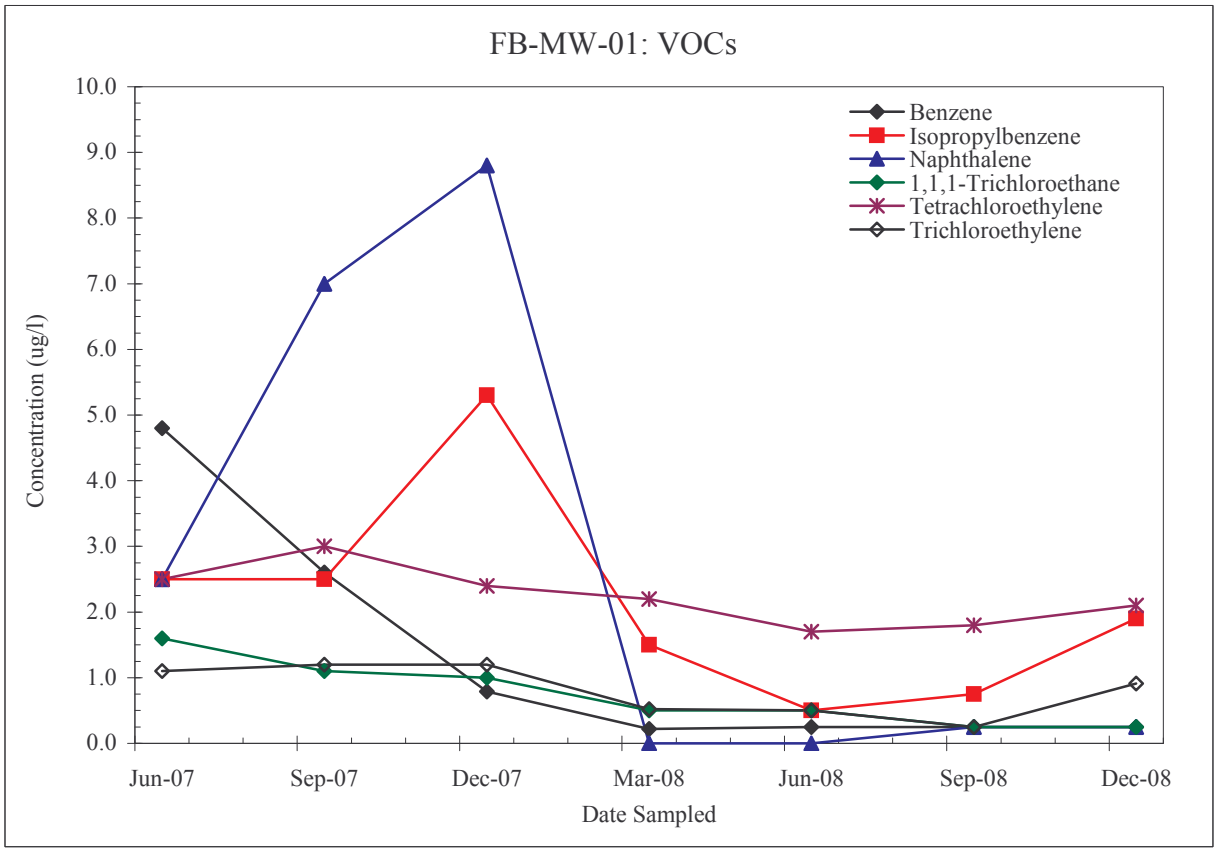
Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R	RPD	BIAS	COMMENTS
			Bromomethane	LCS	148		high	RCP poorly performing compound
			Chloroethane	LCS	154		high	
			Chloromethane	LCS	142		high	
			2-Chlorotoluene	LCS	63		low	
			Dichlorodifluoromethane	LCS	180		high	RCP poorly performing compound
			Methylene chloride	LCS	161		high	RCP poorly performing compound
			Naphthalene	LCS	67		low	RCP poorly performing compound
			1,3,5-Trimethylbenzene	LCS	68		low	

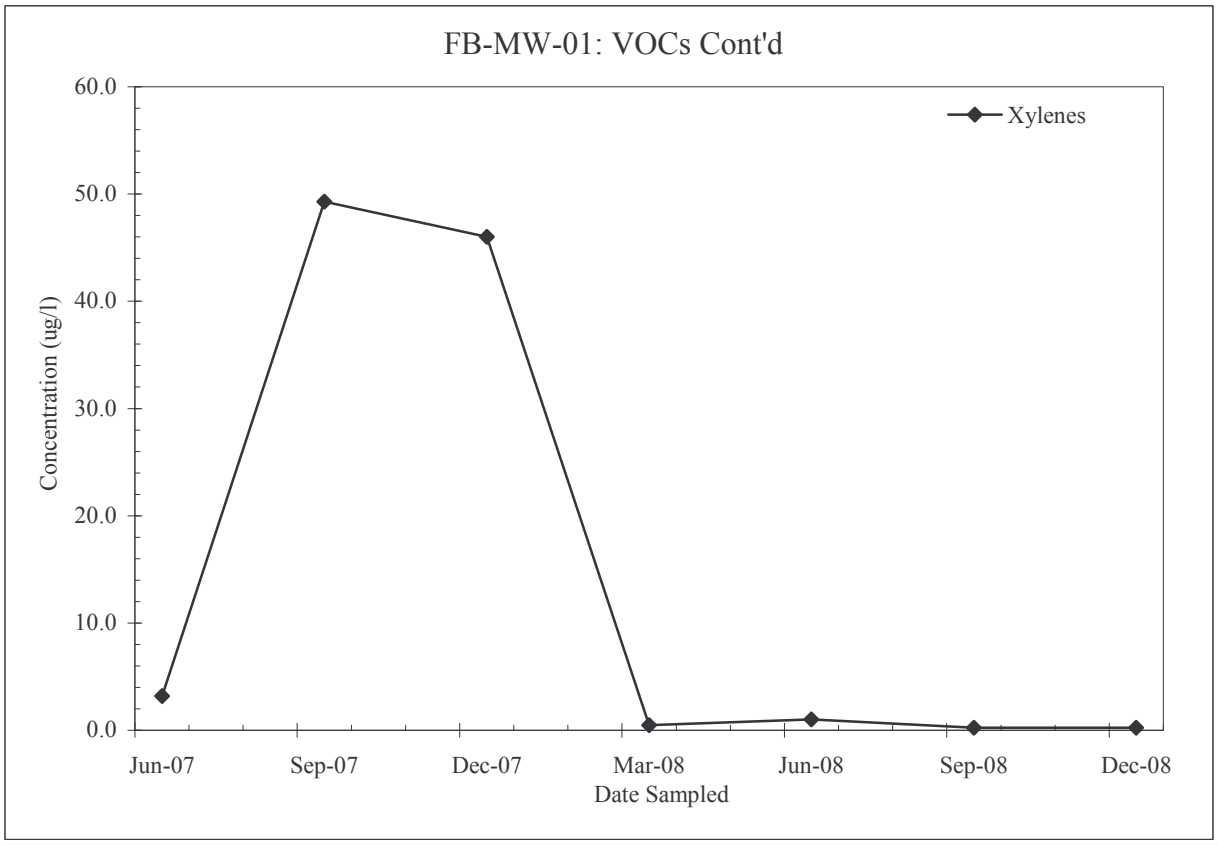
APPENDIX C

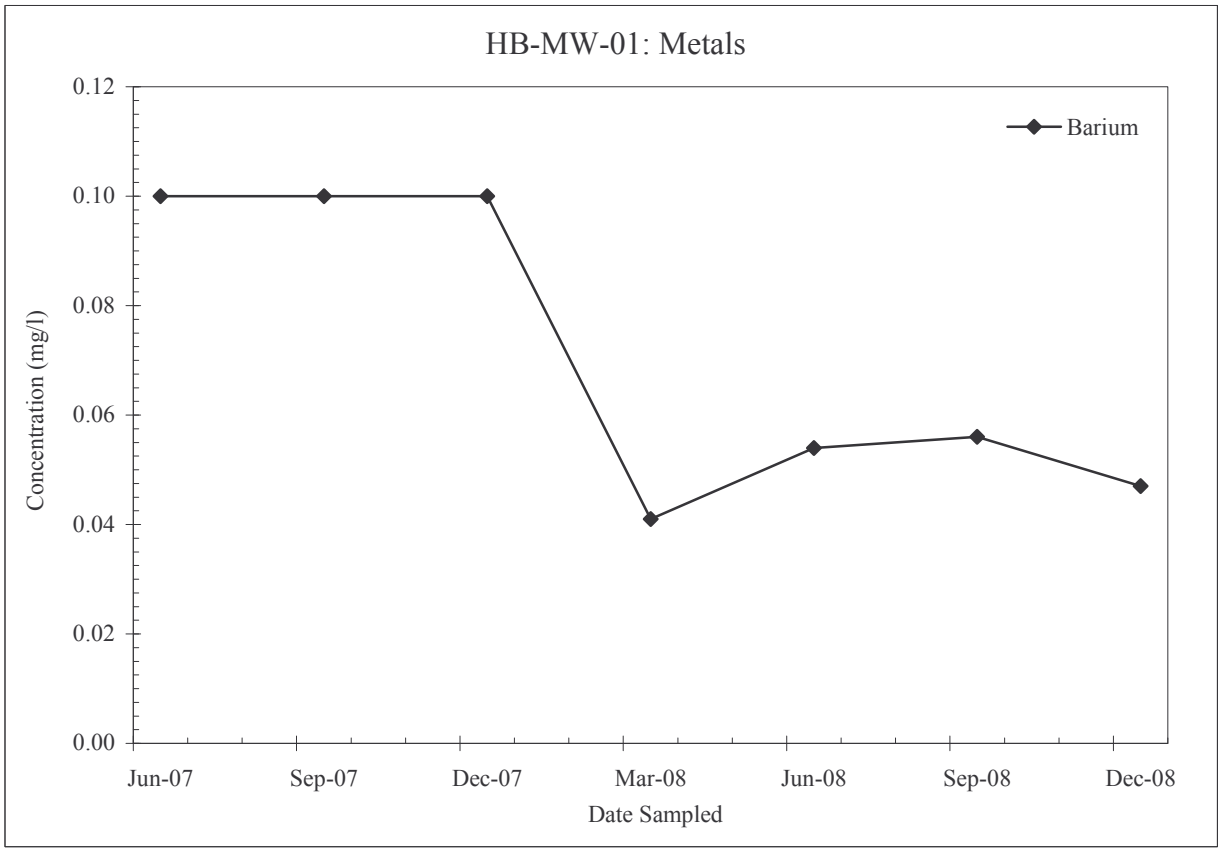
Contaminant Concentration Graphs



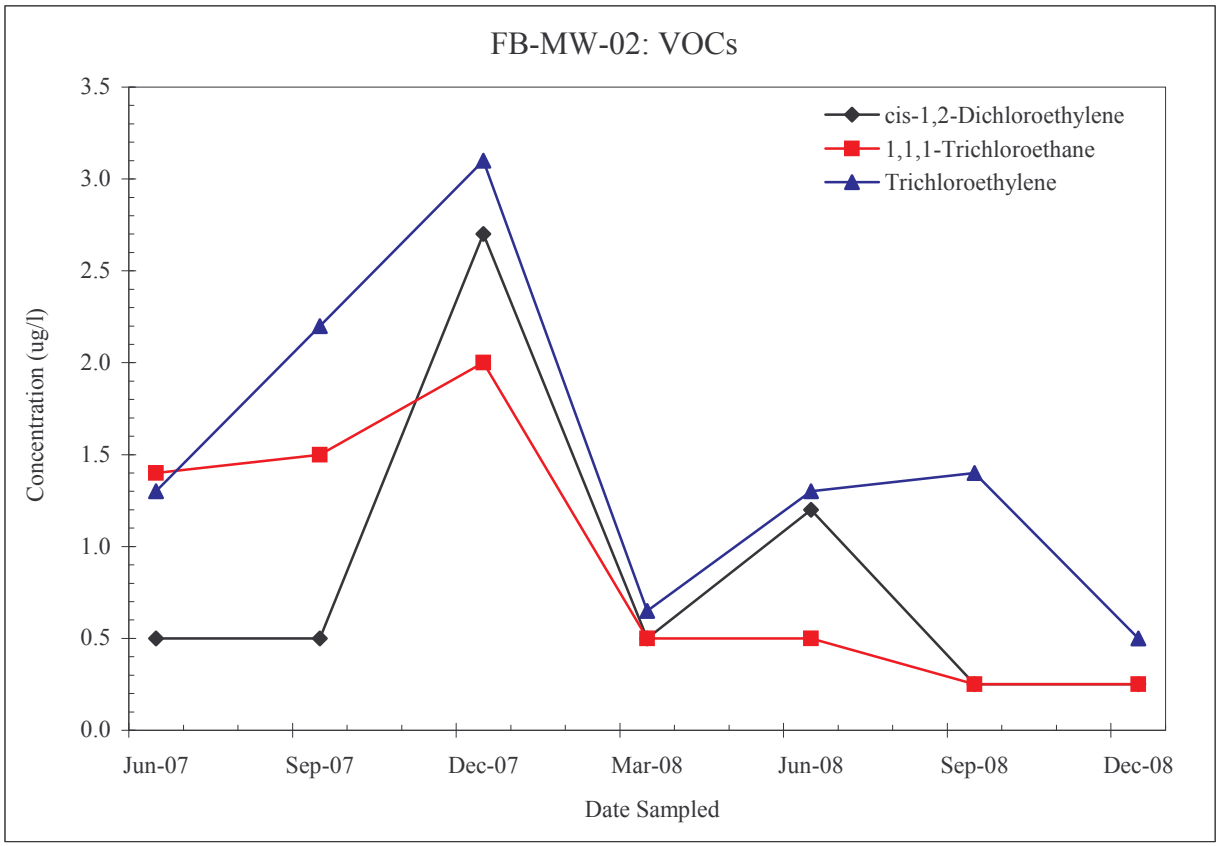


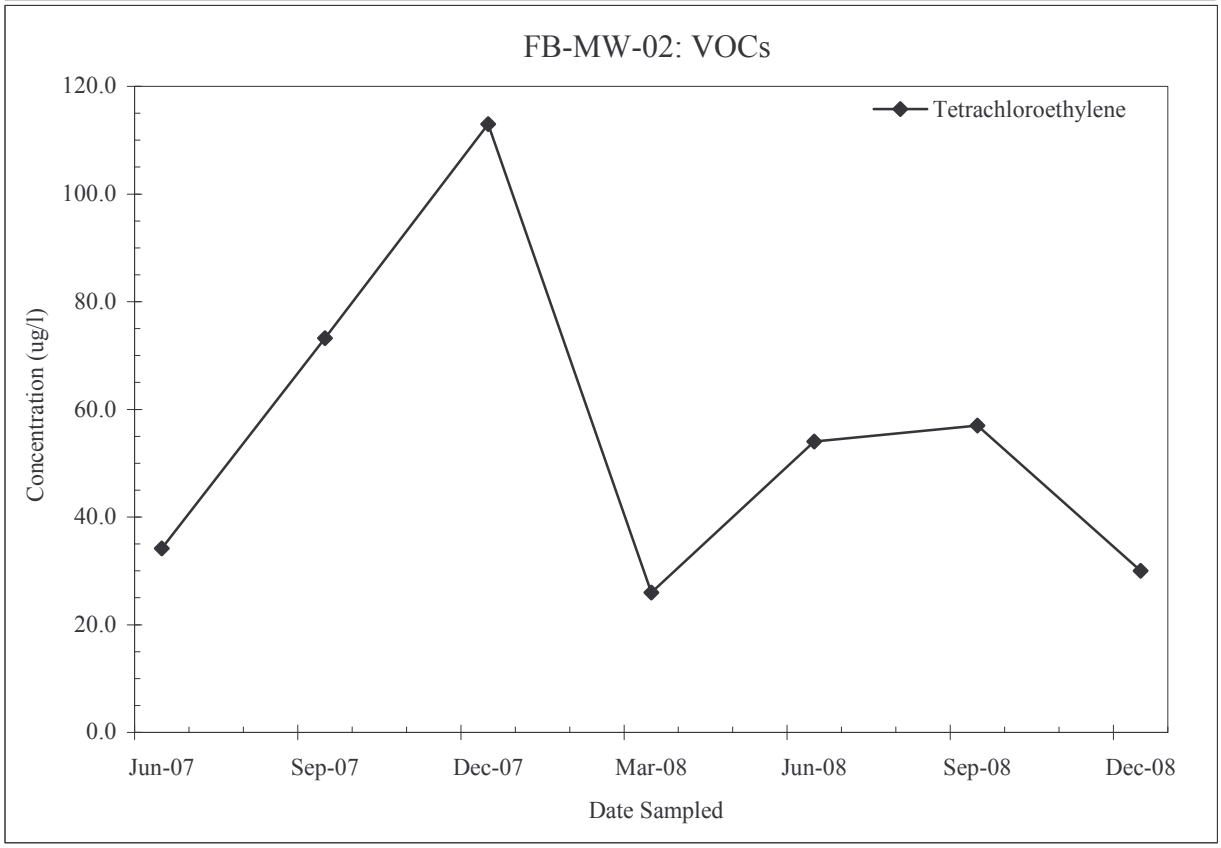
Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.



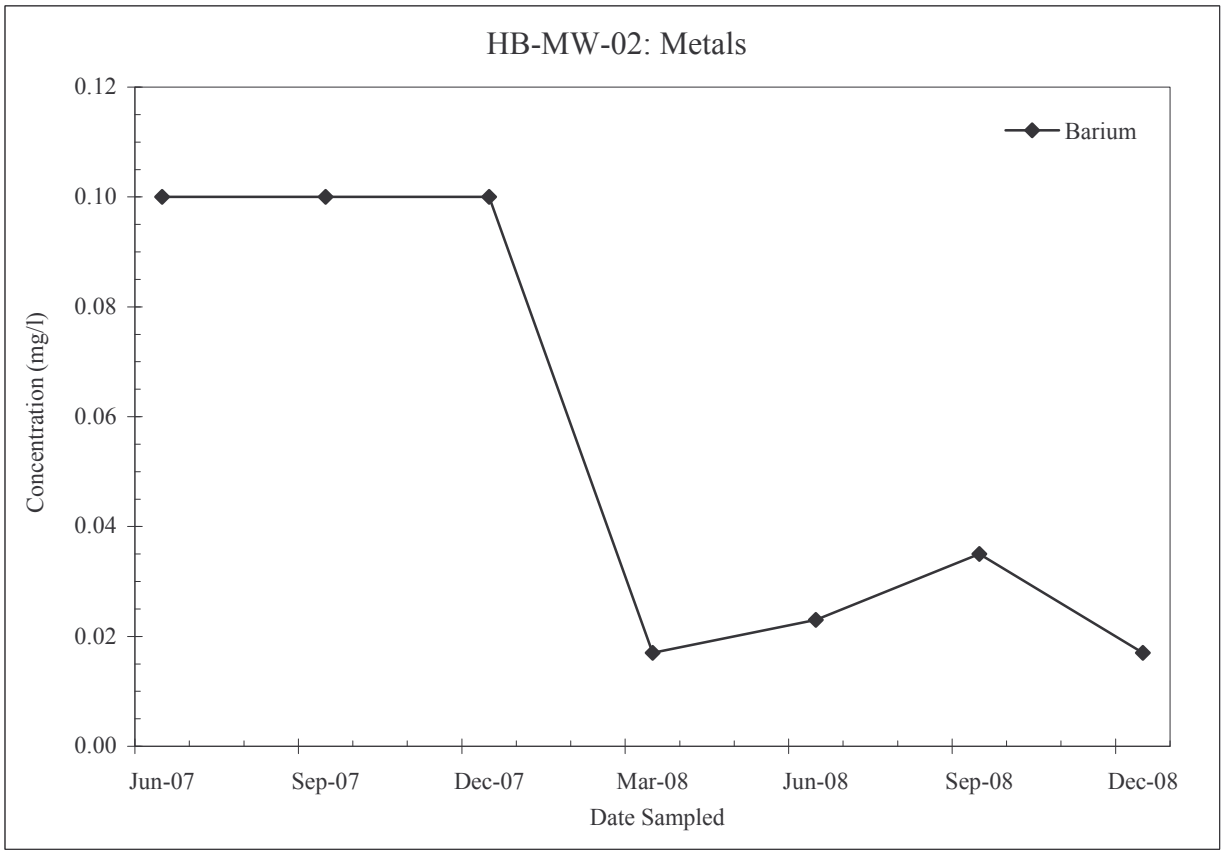


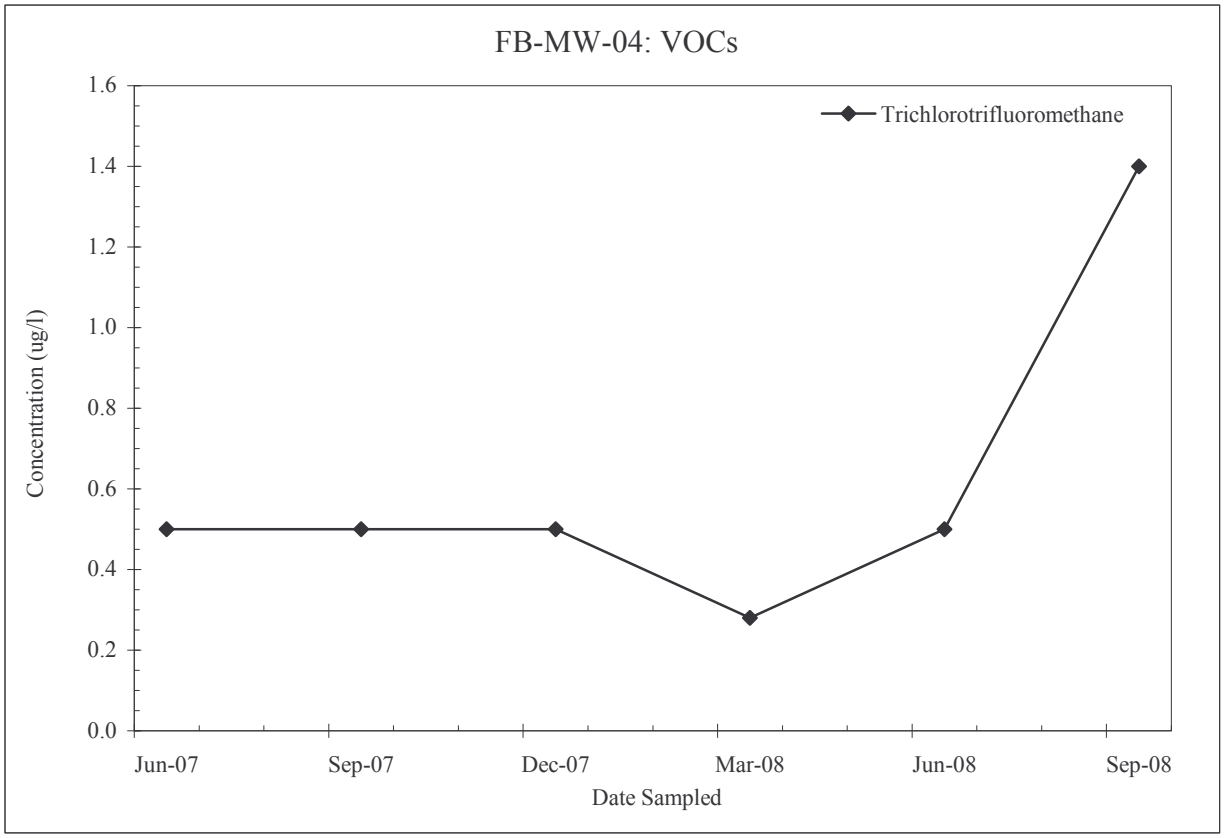
Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.



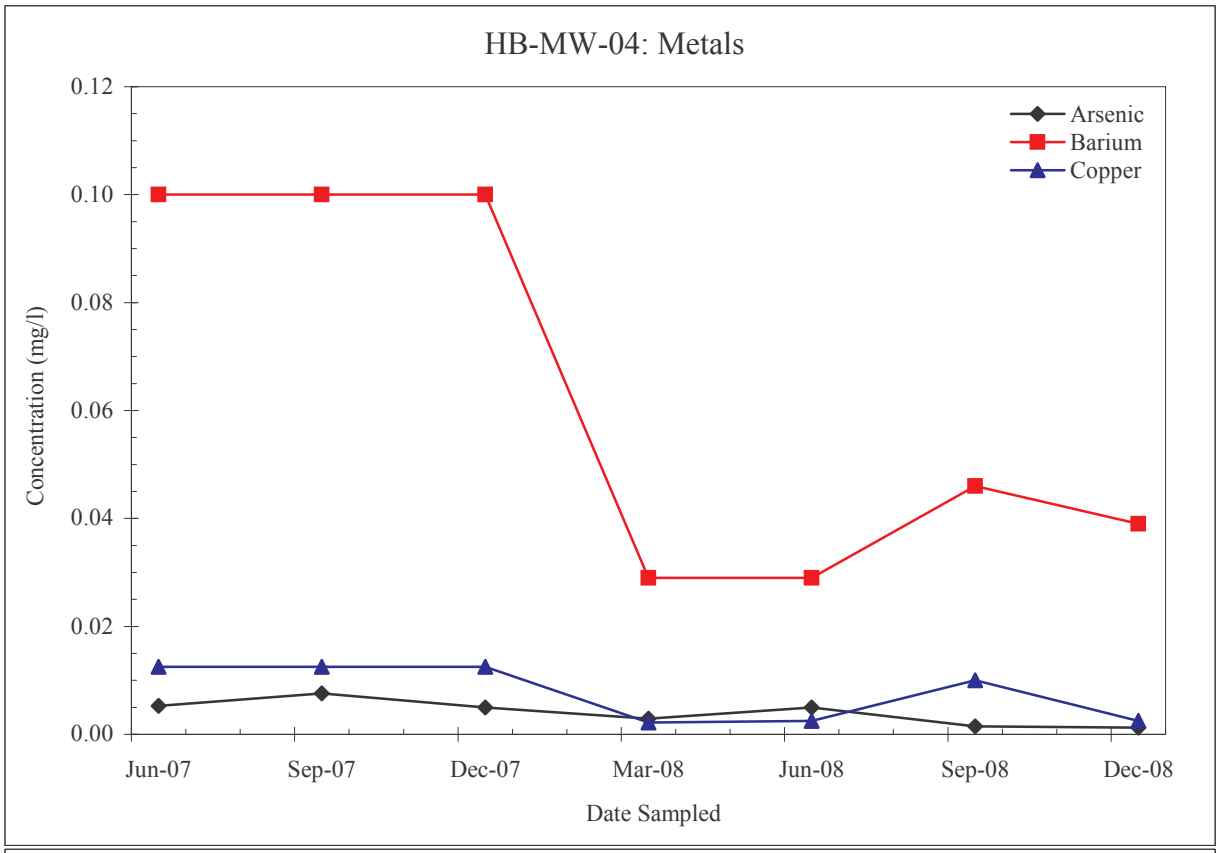


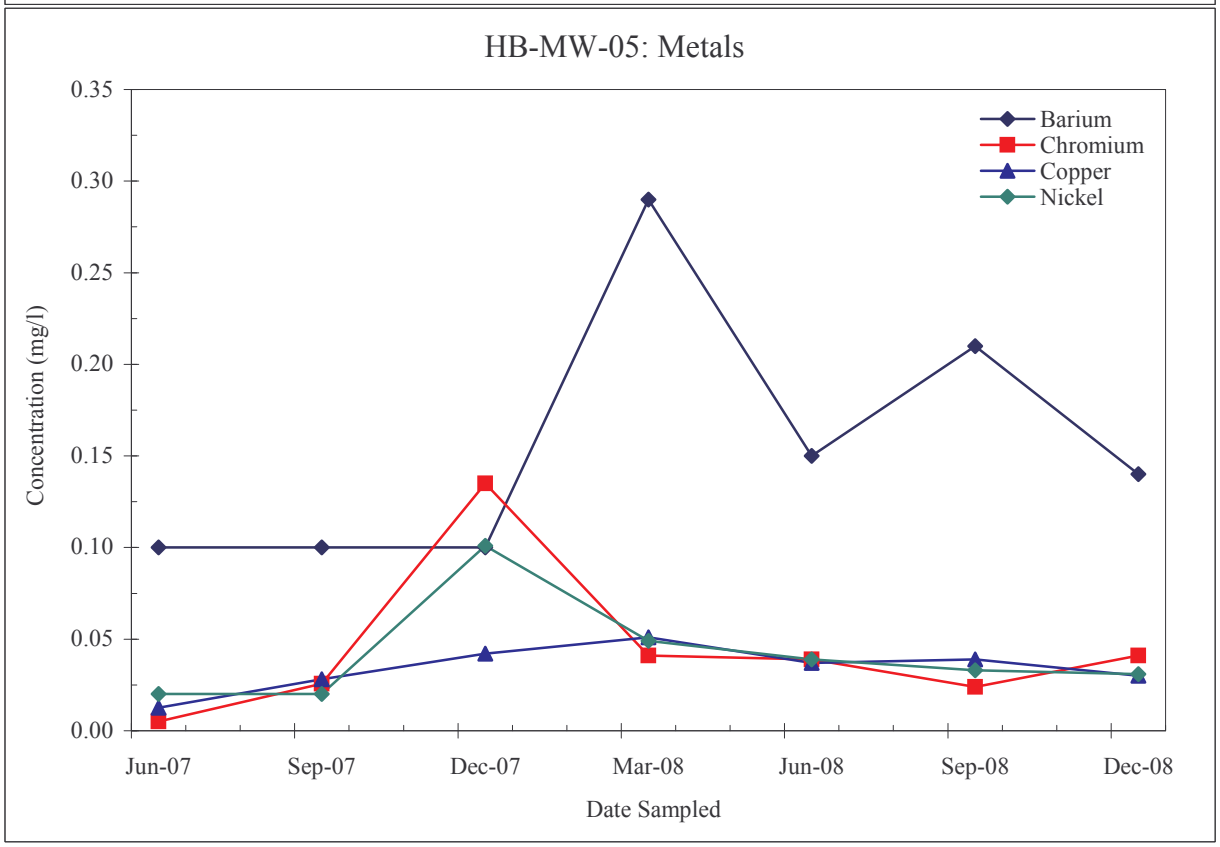
Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.



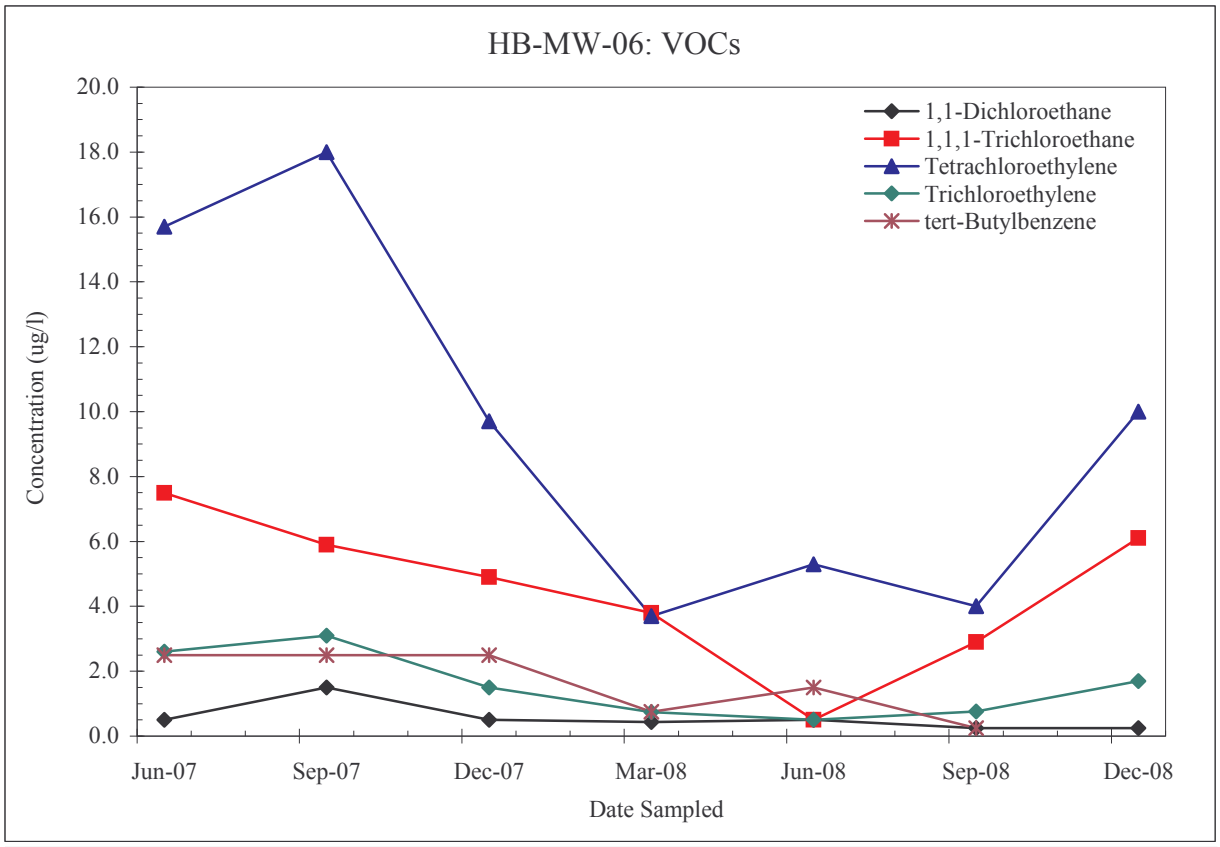


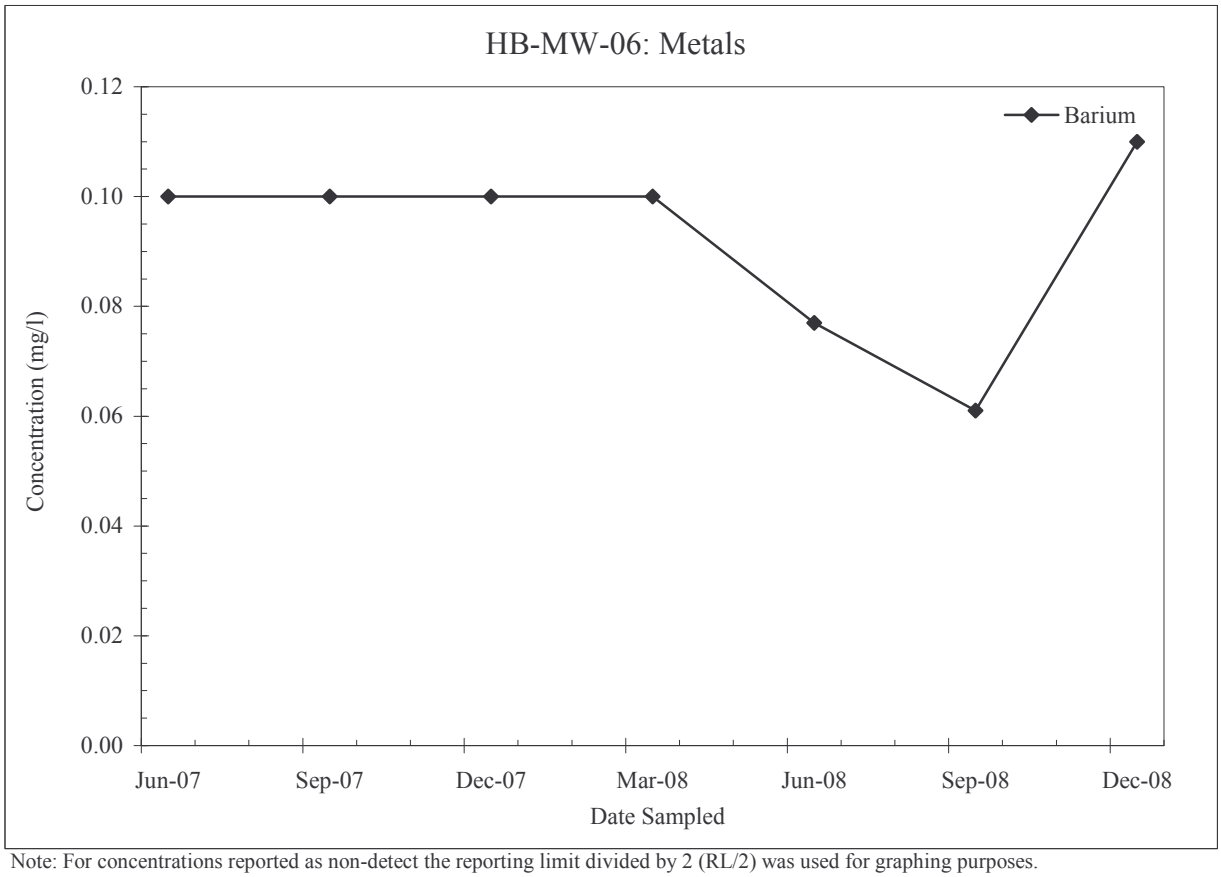
Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.



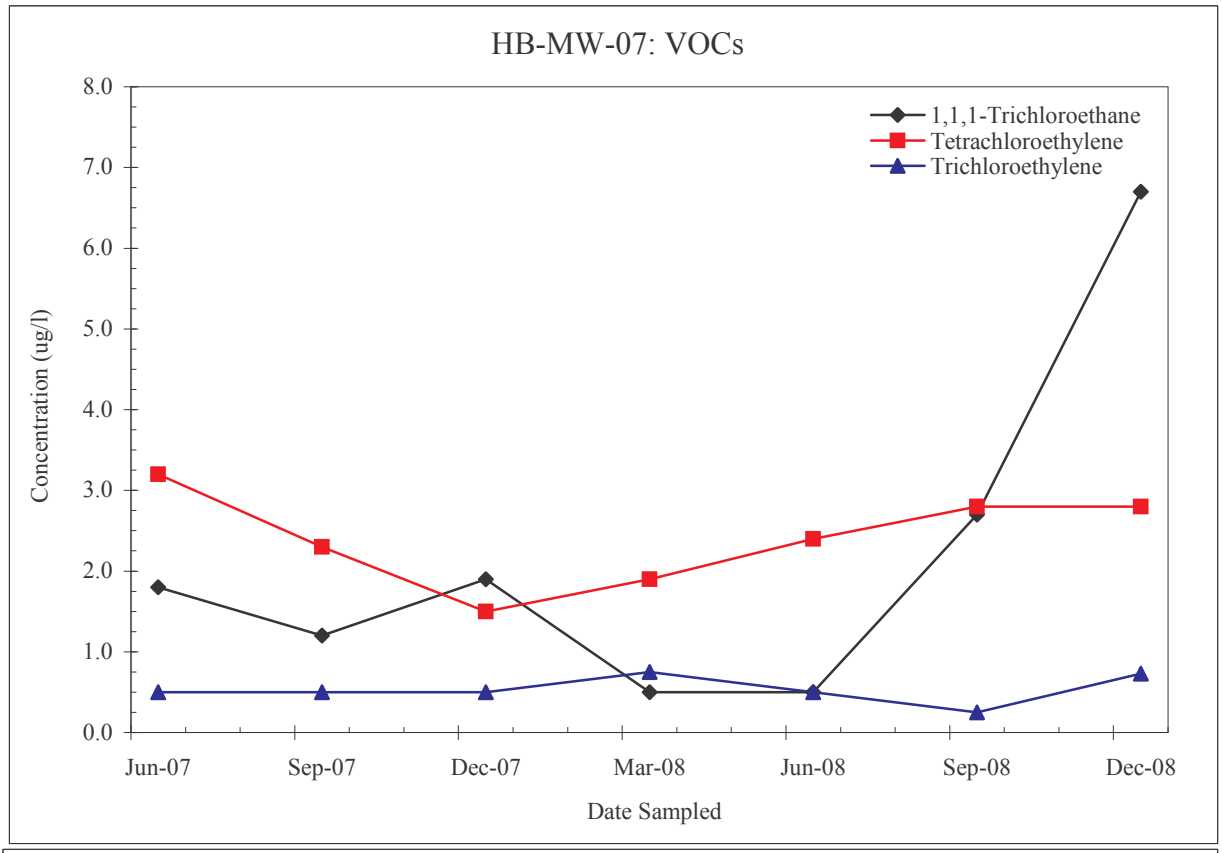


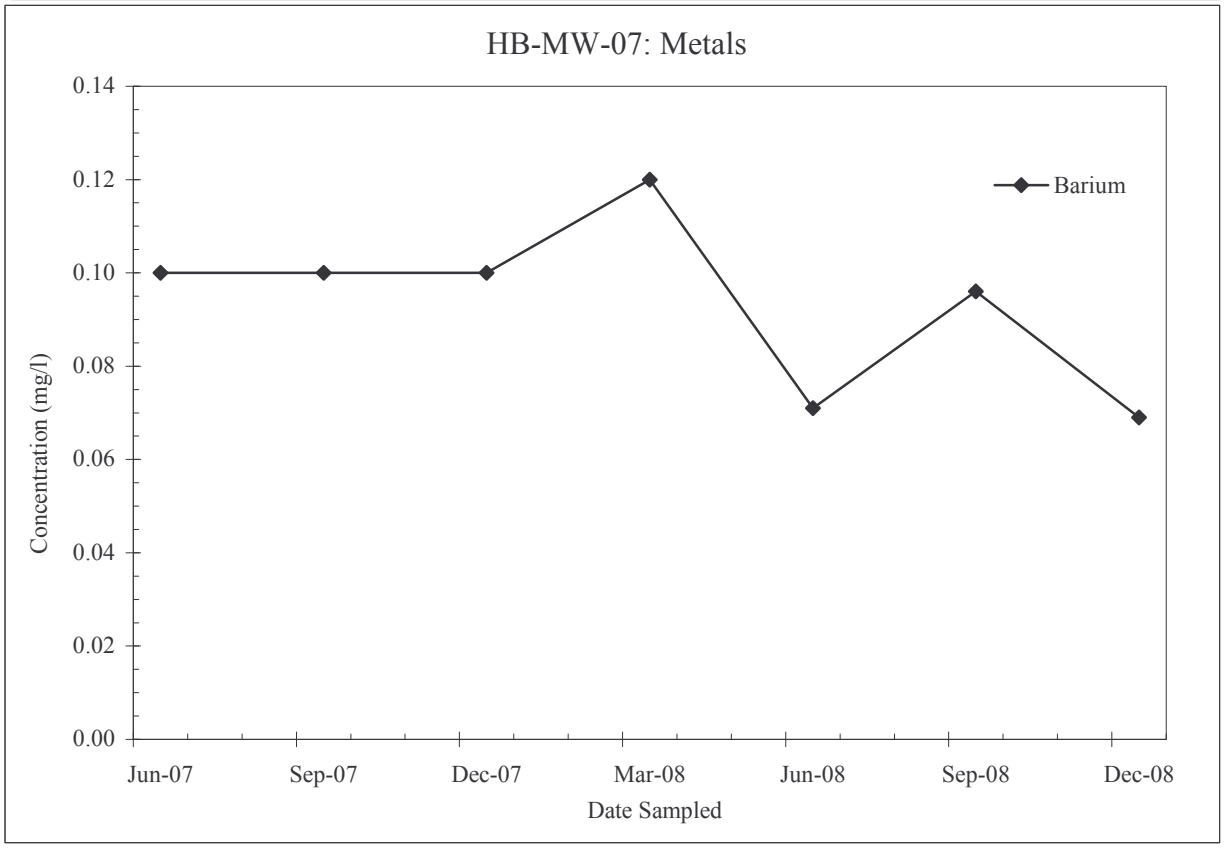
Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.





Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.





Note: For concentrations reported as non-detect the reporting limit divided by 2 (RL/2) was used for graphing purposes.

APPENDIX D

Post-Remediation Maintenance Monitoring Forms

United Technologies/Pratt & Whitney
2008 Post-Remediation Maintenance and Monitoring Program
F&H Buildings

Weather Conditions: Clear
Inspection Date: 3/11/08
Inspection Time: 14:50

Inspector: Scott Brown
Reviewed By:

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies.			
2) Signs of settling	Look for ponding and for settling of pavement of more than 0.5 inches over a 5 square foot area.	✓		
3) Signs of ponding	Look for areas of more than 5 square feet of standing water.	✓		
4) Signs of pavement damage	Look for areas of spider cracking, spalling and loss of binder.	✓		
5) Permanent Survey Markers	Look for damaged or missing markers.	✓		
6) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	✓		
	1.Condition of lock	✓		
	2.Visible ID of wells	✓		
	3.Ponding or infiltration of surface water	✓		
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	✓		

Report all deficiencies to the designated representative of United Technologies Corporation/Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) _____

Corrective Action: _____

2) _____

Corrective Action: _____

3) _____

Corrective Action: _____

4) _____

Corrective Action: _____

United Technologies/Pratt & Whitney
2008 Post-Remediation Maintenance and Monitoring Program
F&H Buildings

Weather Conditions: Sunny
Inspection Date: 9/8/08
Inspection Time: 1440

Inspector: Keith Volkert
Reviewed By:

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies.	✓		
2) Signs of settling	Look for ponding and for settling of pavement of more than 0.5 inches over a 5 square foot area.	✓		
3) Signs of ponding	Look for areas of more than 5 square feet of standing water.		✓	
4) Signs of pavement damage	Look for areas of spider cracking, spalling and loss of binder.	✓		
5) Permanent Survey Markers	Look for damaged or missing markers.	✓		
6) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	✓		
	1.Condition of lock	✓		
	2.Visible ID of wells	✓		
	3.Ponding or infiltration of surface water	✓		
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	✓		

Report all deficiencies to the designated representative of United Technologies Corporation/Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) Some ponding of Rain water from weekend rain storms

Corrective Action: None taken

2)

Corrective Action:

3)

Corrective Action:

4)

Corrective Action: