REPORT

Final Semi-Annual Phase V Operation, Maintenance, and Monitoring Report and Completion Statement for Former Vinyl Chloride Gas Holder Area, RTN 1-11901

Solutia Inc.
Springfield, Massachusetts

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BBL Environmental Services, Inc.

Caron S. Koll, MA #6889
Licensed Site Professional

BBL ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

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Acronyms and Units of Measurement

BBL	Blasland, Bouck & Lee, Inc., an ARCADIS company
bgs	below ground surface
CAD	computer-aided drafting
CMR	Code of Massachusetts Regulations
CSA	Comprehensive Site Assessment
DO	dissolved oxygen
MADEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
mg/kg	milligrams per kilogram\
mg/L	milligrams per liter
MNA	monitored natural attenuation
NA	natural attenuation
psi	pounds per square inch
PVC	polyvinyl chloride
RAM	Release Abatement Measure
RAO	Response Action Outcome
ROS	Remedy Operation Status
RTN	Release Tracking Number
UCL	upper concentration limit
VC	vinyl chloride
VOC	volatile organic compound

1. Introduction

This is the *Second 2006 and Final Semi-Annual Remedy Operation Status/Phase V Operation, Maintenance, and Monitoring Report* (ROS Report) for the Former Vinyl Chloride (VC) Gas Holder Area (Release Tracking Number [RTN] 1-11901) at the Solutia Inc. (Solutia) Indian Orchard Plant in Springfield, Massachusetts (site) (Figure 1-1). Remedial activities at the Former VC Gas Holder Area have met Remedy Operation Status (ROS), applicability as presented in the previous status report (Blasland, Bouck & Lee, Inc. [BBL], 2004b). This ROS Report, which covers of period of February 1 to August 1, 2006, has been prepared in accordance with Massachusetts Contingency Plan (MCP) 310 Code of Massachusetts Regulations (CMR) 40.0892: Inspection and Monitoring Reports for Phase V. The required Bureau of Waste Site Cleanup transmittal form for this Phase V Report under ROS is provided in Appendix A.

This Phase V Report summarizes activities described in the *MCP Phase III Remedial Action Plan and Phase IV Remedy Implementation Plan for Former Vinyl Chloride Gas Holder Area, RTN 1-11901* (MCP Phase III Remedial Action Plan and Phase IV Remedy Implementation Plan) (BBL, 2003b). The Phase V Operation, Maintenance, and Monitoring (OMM) stage has been completed. A history of compliance activities and a summary of scheduled activities are presented below.

Area Name	Compliance History			Planned Compliance Activities Outcome*
	Notification Type/Date	Tier Class and Date	Phase II, Phase III, Phase IV, and RAM Report Due Date/Status*	
Former VC Gas Holder Area (RTN 1-11901)	120-day June 30, 1997	Tier II July 7, 1998 Tier II Extension Requested April 30, 2003 Tier II Extension Requested August 3, 2004	- MCP Phase II Report submittal, completed February 4, 2000 - MCP RAM 120-Day Status Report, completed August 15, 2000 - Semi-Annual RAM Status Reports, completed February 2001 to February 2003 - MCP Phase III Report, completed August 14, 2003 - MCP Phase IV Report, completed August 14, 2003 - Semi-Annual Phase V Inspection and Monitoring Reports, completed February 2004 and August 2004 - ROS submission, August 2004 - Semi-Annual Phase V Inspection and Monitoring Report/ROS, completed February 2005 and August 2005 - Semi-Annual Phase V Inspection and Monitoring Report/ROS completed February 2006.	- *Activity Use Limitation, August 2008* - *Response Action Outcome (RAO), August 2008* - *Continued annual groundwater monitoring for two years* - *Achieving background feasibility evaluation* - *Data usability and data representation evaluation*

Notes:
Outstanding items shown in italics.
*Date based on date of Massachusetts Department of Environmental Protection (MADEP) notice of responsibility letter for RTN 1-11901 (July 7, 1997).
RAM – Release Abatement Measure.

1.1 Release Description

The Former VC Gas Holder Area is a Tier II classified site located on the Solutia portion of the Indian Orchard Plant near a former aboveground process vessel ("gas holder") that recycled VC (Figure 1-2). VC was used in the gas holder tank in the southern portion of the site at former Building 85 during the manufacturing of polyvinyl chloride (PVC) from 1946 to 1975. Volatile organic compounds (VOCs), consisting primarily of VC, exist in a layer of fine, white granular material (partially polymerized PVC) approximately 5 to 6 feet below ground surface (bgs). The source of the VC detected in soil and groundwater is likely the VC vapor condensation holder tank, which contained residual and partially polymerized PVC that may have been emptied onto the ground from the gas holder and then buried with soil when the area was regraded. Prior to treatment, the layer of white material (confirmed to be off-specification, standard-grade PVC or partially polymerized PVC) exhibited concentrations of VC up to approximately 450 milligrams per kilogram (mg/kg), which exceed current MCP upper concentration limits (UCLs), with lesser concentrations of trichloroethene, 1,2-dichloroethene, and 1,2-dichloroethane detected above MCP-reportable concentrations but below UCLs. Groundwater flow direction at the Former VC Gas Holder Area is toward the southwest, as presented in the *MCP Phase II Comprehensive Site Assessment Report for RTNs 1-10793, 1-10868, 1-10869, 1-11692, 1-11693, 1-11694, and 1-11901 Investigation Areas* (MCP Phase II CSA Report) (BBL, 2000a) and subsequent status reports prepared for Solutia by BBL (BBL, 2001b, 2002a, 2002b, 2003a, 2003b, 2004a, 2004b). The dissolved VC plume in groundwater has been defined and is within the Solutia property boundaries (BBL, 2000a, 2001a, 2001b). The plume does not extend to the Chicopee River, which is located more than 700 feet hydraulically downgradient from the edge of the plume (BBL, 2000a, 2000c, 2001a).

1.2 MCP Phase V Objectives

MCP Phase V activities have been conducted to observe soil and groundwater VC concentrations following the injection of additives, which was performed in accordance with the *MCP Release Abatement Measure Plan Letter for the Former Gas Holder Area, RTN 1-11901* (RAM Plan) (BBL, 2000b); *Massachusetts Contingency Plan Release Abatement Measure 120-Day Status Report for RTN 1-11901* (120-Day Status Report and RAM Plan Modifications) (BBL, 2000c); the plan modification included in the *First Semi-Annual RAM Status Report for RTN 1-11901* (BBL, 2001a); and the completion of the MCP Phase III Remedial Action Plan and Phase IV Remedy Implementation Plan (BBL, 2003b) and . The remedy involves the introduction of a chemical oxidant additive (sodium permanganate [$NaMnO_4$]) to the VC source within the subsurface soils to degrade the VC. After an evaluation of different chemical oxidant delivery injection systems, an increased pressure system using lansing points was implemented in November 2004. This replaced the procedure of installing permanent injection points for injecting nutrients. MCP Phase V OMM groundwater monitoring continued following the Phase III addition of remedial additive.

The off-specification PVC was found to contain VC at concentrations above UCLs for soils. VC is leaching to groundwater at concentrations below UCLs but above MCP-reportable concentrations. The specific objectives of the MCP Phase V injection and monitoring activities are to:

- degrade the VC average concentration in soil below UCLs as part of an MCP Permanent Solution RAO within the source-area materials;
- mitigate the potential for VC to leach to groundwater; and
- demonstrate the adequacy of natural attenuation (NA) mechanisms in groundwater in support of a monitored NA remedy (MNA) downgradient of the source area, which may be part of the MCP Permanent Solution RAO for the Former VC Gas Holder Area.

1.3 Phase V Report Organization

This Phase V Report is organized into the following sections:

Report Section	Corresponding MCP Section(s)
1 – Introduction	
2 – History of Remedial Actions	40.0891(2)a – Phase I, II, & III Sodium Permanganate Injection Activities
3 – Groundwater Monitoring	40.0892(2) – Results of sampling analyses and screening conducted as part of the monitoring and/or inspection program
4 – Post-Injection Soil Confirmation Sampling	40.0892(2) – Results of sampling analyses and screening conducted as part of the monitoring and/or inspection program
5 – Phase V Completion Statement LSP Opinion	40.0894(1)(2) – Phase V Outcome

2. History of Remedial Actions

2.1 Introduction

This section presents the remedial actions taken at the site. There were three injection phases of sodium permanganate to degrade the vinyl chloride in the subsurface in the form of a partially polymerized PVC, as presented below.

2.2 Phase I Sodium Permanganate Injection Activities

Phase I of the sodium permanganate injection activities was performed in two mobilizations (Phase 1A and Phase 1B), from May 2 to May 8, 2000 and from May 31 to June 7, 2000, respectively. Prior to injection, a total of 55 injection points were installed at approximately 8-foot-on-center spacing (the injection points were designed with an assumed 4-foot radius of influence, as determined by the pilot test performed in July and August 1999). Each injection point was screened where the target layer, which consisted of a fine, white, granular material, was observed (between 5 and 6 feet bgs, on average) and were constructed of 1-inch-diameter Schedule 40 PVC riser with varying screened intervals (0.010-inch slot screen), depending on the thickness of the target layer.

A total of 55 injection points were injected with oxidant solution during the Phase 1A and Phase 1B mobilizations. The injection process was conducted consistent with the RAM Plan (BBL, 2000b). Injection pressures during both mobilizations ranged from not detectable (0 pounds per square inch [psi]) to greater than 30 psi. In total, approximately 15,962 liters of diluted oxidant solution were injected in the treatment area during Phase 1A injection activities, and 13,857 liters were injected during Phase 1B. The total mass of sodium permanganate injected in the treatment area during both phases was approximately 765 kg.

In addition, groundwater quality parameters were monitored prior to, during, and following the sodium permanganate oxidant injection to confirm that there was no sodium permanganate migration outside the treatment area. Monitoring parameters included depth to ground water, conductivity, pH, and temperature. Permanganate concentrations were measured by collecting a filtered groundwater sample (using a Gelman 5-micrometer nylon filter) and analyzing it with a HACH DR/820 colorimeter for sodium permanganate concentration. Detailed information on the Phase I injection activities was presented in the 120-Day Status Report and RAM Plan Modifications (BBL, 2000c).

2.3 Phase II Sodium Permanganate Injection Activities

Phase II injection activities were conducted from March 15 through March 23, 2001. This phase focused on the areas that did not meet the MCP UCL for VC following the Phase I injection of chemical oxidants. Twenty-five new injection wells were installed at approximately 8-foot-on-center spacing between the locations of Phase I injection wells (i.e., injection wells were designed with an assumed 4-foot radius of influence, as determined by the pilot test performed in July and August 1999). Each injection well was screened entirely within the target layer (on average, between 5 and 6 feet bgs).

In total, 25 new wells and 12 of the 55 existing injection wells installed during Phase I activities were used to inject oxidant solution. The injection pressures at the wells ranged from 0.0 psi to greater than 30 psi (up to 60 psi). In total, approximately 14,306 liters of oxidant solution were injected in the treatment area during Phase II operations. The total mass of sodium permanganate injected in the treatment area over the entire injection period was approximately 358 kg.

In addition, groundwater quality parameters were monitored prior to, during, and following the sodium permanganate oxidant injection to confirm that there was no sodium permanganate migration outside the treatment area. Monitoring parameters included depth to ground water, dissolved oxygen (DO), pH, and temperature. Permanganate concentrations were measured by collecting a filtered groundwater sample (using a Gelman 5-µm nylon filter) and analyzing it with a HACH DR/820 colorimeter for sodium permanganate concentration. Detailed information on the Phase II injection activities was presented in the *Second Semi-Annual RAM Status Report for RTN 1-11901* (BBL, 2001b).

2.4 Phase III Sodium Permanganate Injection Activities

Phase III injection activities were conducted from November 15 to November 19, 2004 to augment the previous injection activities. The injection process was consistent with the RAM Plan (BBL, 2000b) and the MCP Phase III Remedial Action Plan and Phase IV Remedy Implementation Plan (2003b). However, prior to the Phase III activities, alternative injection systems were evaluated to target specific areas, as well as to produce a higher radius of influence during injection. During the Phase III activities, the permanent injection points were sealed, and temporary injection points (lansing points) were installed and then removed upon completion of injection.

Sodium permanganate solution (3% concentration by weight) was injected into 30 injection locations within the target area using the lansing system during the Phase III activities. At each injection location, permanganate was injected in two to three discrete 4- to 6-inch vertical intervals. The proposed pressures for the injection activities were 100 to 500 psi. However, due to equipment limitations during the activities, a maximum of 130 psi was achieved. Because of this, only seven of the 30 attempted injection locations received 97% or more of the goal injection volume. At locations where injection at a designated interval was not possible due to excessively high injection pressure requirements, sodium permanganate injection was attempted immediately above (within 1 to 2 inches) the targeted interval. This method was attempted at 13 of the locations, with five receiving the target amount of oxidant. A total of approximately 1,700 gallons of sodium permanganate (3% concentration by weight) of the total targeted volume of 3,434 gallons were injected during the Phase III activities.

In addition, groundwater quality parameters were monitored prior to, during, and following the sodium permanganate oxidant injection to confirm that there was no sodium permanganate migration outside the treatment area. Monitoring parameters included depth to groundwater, DO, pH, conductivity, temperature, and visual observation (including color). Detailed information on the Phase III injection activities was presented in the *First 2005 Semi-Annual Phase V Operation, Maintenance, and Monitoring Report* (BBL, 2005a).

3. Groundwater Monitoring

3.1 Introduction

This section presents the description and status of post-injection groundwater monitoring activities completed from 2001 to 2006 in support of an ongoing NA evaluation at the Former VC Gas Holder Area. A discussion of historical groundwater results and concentration trends over time is presented below.

3.2 Groundwater Monitoring Activities

3.2.1 Water Levels

Water-level measurements from select monitoring wells have been collected annually in conjunction with the groundwater sampling event. The results for the May 2006 round are presented in this report. Water-level elevations from 1988 to 2006 are presented in Table 3-1.

3.2.2 Groundwater Sampling and Analysis

Groundwater sampling and analysis has been conducted annually from July 1986 to May 2006 to evaluate concentration trends following the source-area *in situ* chemical oxidation treatment and to determine the effectiveness of NA. A trend of decreasing VC concentrations further supports an MNA remedy.

Nine monitoring wells (MW-58S, MW-83S, MW-87S, MW-92S, MW-93A, MW-94S, MW-95S, MW-96SF, and MW-98D) have been routinely sampled during previous groundwater monitoring events and were included in the May 2006 sampling event for the following reasons:

- Monitoring well MW-95S was selected because it is located hydraulically upgradient of the source area.
- Monitoring well MW-98D was selected because it is located at the northwest, downgradient edge of the plume.
- The shallow monitoring well, MW-99S, which is screened at a shallower depth at the MW-98D location, has not detected VC in three sampling events, whereas the deeper well, MW-98D, has had estimated detections below the method detection limit.
- Monitoring well MW-96SF is located along the southwest, downgradient edge of the plume, with concentrations slightly above detection limits.
- Monitoring well MW-58S, which has been monitored for VOCs nearly annually since 1986, has contained VC slightly above detection.
- Concentrations at MW-58S have been decreasing over time to below detection limits.

- Monitoring wells MW-92S, MW-94S, and MW-87S are sidegradient of the VC plume near the source area.

- Monitoring wells MW-83S and MW-93A are along the axis of the plume, downgradient of the source area.

An additional six perimeter monitoring wells (MW-84S, MW-85S, MW-86S, MW-93B, MW-97S, and MW-99S) were sampled during the May 2006 sampling event to provide technical justification for a Phase V Completion Statement.

3.3 Groundwater Physical Characteristics

The physical characteristics of site groundwater, which are strongly influenced by the geology of the site, were provided in the *Second Semi-Annual RAM Status Report for RTN 1-11901* (Second Semi-Annual RAM Status Report) (BBL, 2001b). Brief descriptions of site-specific geology, including the major geologic units encountered at the site or at the adjacent property to the south and west, were also included in that report. For a more detailed description of the regional and site-specific geologic conditions, refer to the MCP Phase II CSA Report (BBL, 2000a).

3.3.1 Groundwater Flow

Figure 3-1 presents a water-table elevation contour map that is based on the limited data collected on May 9 and May 10, 2006 (Table 3-1). This figure was constructed to augment the water-table elevation measurements presented in the MCP Phase II CSA Report (BBL, 2000a) and in subsequent status reports prepared for Solutia by BBL (BBL, 2001b, 2002a, 2002b, 2003a, 2003b, 2004a, 2004b, 2005a, 2005b, 2006a). Figure 3-2 shows the groundwater flow pattern, which is similar to that of previous investigations.

3.4 Groundwater Chemical Characteristics

This section discusses historical groundwater field sampling results from July 1986 to May 2006 and trends of VC concentrations over time. A summary of the analytical results of VOC concentrations in groundwater from 1986 to the 2006 sampling event is presented in Table 3-2. The groundwater laboratory data package is presented in Appendix B and the data validation report to meet presumptive certainty are presented in Appendix C - Soil and Groundwater Data Validation Report. The analytical results of NA parameters in groundwater from November 1999 to the June 2001 sampling event were presented in the *Second Semi-Annual Release Abatement Measure 2002 Status Report for Former Vinyl Chloride Gas Holder Area, RTN 1-11901* (BBL, 2002b). Groundwater field measurements, including DO and oxidation-reduction potential, from 1997 to 2006 are presented in Table 3-3.

3.4.1 Vinyl Chloride Trends in Groundwater

Groundwater analytical results for the May 2006 sampling event are generally consistent with previous results (May 2005). VC concentrations have not rebounded they began decreasing in 2001. The May 2006 VC concentrations remained low and were slightly lower than previous monitoring events at some locations. No

exceedences of MADEP criteria for groundwater discharge to surface water (40 milligrams per liter [mg/L]) have been reported at these monitoring wells, either pre- or post-injection.

Although concentrations of VC have been generally consistent during the last few events, styrene and ethylbenzene concentrations had continued to increase over the last few sampling events, especially in monitoring wells MW-83S and MW-87S. However, the most recent sampling results show that styrene and ethylbenzene concentrations have been reduced significantly (by two orders of magnitude) at these locations. In June 2005, styrene concentrations at MW-83S and MW-87S were 1.7 mg/L and 3.4 mg/L, respectively. In June 2006, these decreased to non-detect to 0.005 mg/L at both locations. Ethylbenzene concentrations in June 2005 were 11 mg/L at MW-83S and 16 mg/L at MW-87S. In June 2006, they decreased to 0.6 mg/L at both locations. These constituents were also detected at lower concentrations (ranging from 6 mg/L to 0.029 mg/L in three additional monitoring wells [MW-86S, MW-92S, and MW-94S], consistent with the June 2001, June 2004, and June 2005 monitoring events. The source of the styrene and ethylbenzene is believed to be from an upgradient offsite source associated with a release from NOVA Chemical Inc. (RTN 1-10793) in 1995. The following graph shows concentrations of VC over time for the nine monitoring wells routinely sampled (Figure 3-2).

Figure 3-2
Vinyl Chloride in Groundwater

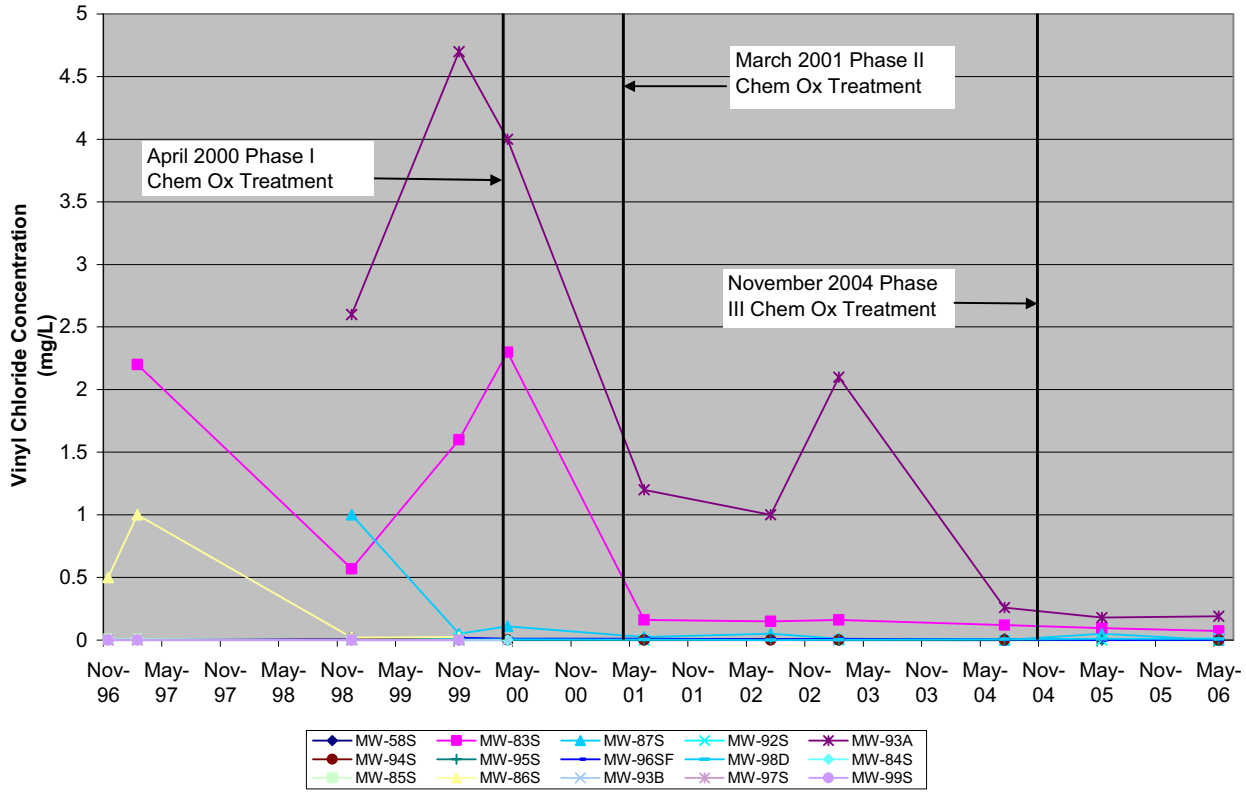

Figure 3-2 illustrates a general downward trend in VC concentrations, particularly during the periods of injection treatment. Many of the monitoring well data are not depicted on the graph due to extremely low concentrations that are near the reportable concentration standard of 0.002 mg/L. Graphs showing the trends of VC concentrations in groundwater over time for each individual well, in relation to the injection events and the reportable concentration standard, have been updated with the May 2006 data and are presented in Appendix D.

In addition, Figure 3-3 presents a VC groundwater isoconcentration map that is based on the May 2006 groundwater data. This figure was constructed to refine the previous isoconcentration figure, presented in *MCP First Semi-Annual Release Abatement Measure 2002 Status Report for the Former Vinyl Chloride Gas Holder Area, RTN 1-11901* (BBL, 2002a). Figure 3-3 shows that the VC plume has been reduced by an order of magnitude from the concentrations depicted on Figure 3-2 and supports the general downward trend.

A summary that compares the analytical results of 1986-2006 VOC concentrations in groundwater to the MADEP MCP numerical standards is presented in Table 3-3. Recently, the MADEP revised the MCP Method 1 numerical standards, as well as the reportable concentrations in both soil and groundwater (MADEP, 2006a; MADEP, 2006b). Table 3-3 presents a comparison of the groundwater analytical results to these revised standards. The previous standards are presented in the table in parentheses next to their respective revised standards but are not used for comparison purposes.

4. Post-Injection Soil Confirmation Sampling

4.1 Introduction

On May 11, 2006, BBL collected soil samples at 10 random locations to determine the effect of oxidant injection on VC concentrations in soil following the Phase III injection activities. This section presents the method used to randomly select sampling locations, soil sampling and analysis, and a discussion of the analytical results.

4.2 Method Used to Generate Random Sampling Locations

BBL randomly selected 10 proposed soil sampling locations within the target treatment area within the Former VC Gas Holder Area. The first step in the process was to define the soil sampling area. A rectangular polygon was generated, with the north and south sides of the rectangle aligned parallel to the east-west survey coordinate system, and the east and west sides aligned parallel to the north-south survey coordinate system, as shown on Figure 1-2.

Once complete, the minimum and maximum easting and northing coordinates of the defined rectangle were extracted using computer-aided drafting (CAD) software. These minima and maxima were then input into a spreadsheet program to determine 10 random locations. A spreadsheet function, used for determining a random value between two numbers, was used to obtain a random *x*- and *y*-coordinate for each proposed soil sampling location. First, a random number between the minimum easting value and maximum easting value of the generated rectangle was generated. This process was repeated to generate the minimum and maximum northing values. The random numbers were rounded to the nearest 1 foot. Therefore, the probability of generating any one soil sampling location was approximately one in 2000. When the spreadsheet was set up to generate 10 random <*x,y*> pairs, it was initialized, and the first generated random set of ten locations was retained.

These random surveyed *x*- and *y*-coordinates were then re-imported into the CAD software to plot the locations within the rectangle. If obstacles, such as subsurface utilities, were evident at any of the proposed sampling locations, the location was moved the minimum practical distance from those obstacles while still maintaining with the site Health and Safety Plan.

4.3 Post-Injection Confirmation Soil Sampling and Analysis

Ten post-injection confirmation soil samples were collected [SB-132 (B-1), SB-133 (B-2), SB-134 (B-3), SB-135 (B-4), SB-136 (B-5), SB-137 (B-6), SB-138 (B-7), SB-139 (B-8), SB-140 (B-9), and SB-141 (B-10)] from the 6- to 8-foot depth interval with in the treatment zone. Samples were collected using a tractor-mounted Powerprobe® 9600 TC and a dual tube system. A 2¼-inch-inner-diameter by 4-foot-long steel pipe was advanced to 4 feet bgs, a plastic lexan tube was placed in the pipe, and the pipe was advanced to 8 feet bgs to collect the sample. After the sampling was completed, each borehole was backfilled with ¾-inch bentonite chips and sealed at the surface with an asphalt patch. Each sample was visually and tactilely inspected for evidence of white material (partially polymerized PVC) and indications of permanganate. Sample descriptions were logged, and samples were screened for headspace using a photoionization detector. Boring logs of visual observations are presented in Appendix E.

Each sample was collected with an Encore sampler for laboratory analysis of VOCs plus tentatively identified compounds using the MADEP quality assurance/quality control (QA/QC) requirements and performance standards for SW-846 Method 8260b. One duplicate sample was collected at SB-135 (B-4), and matrix spike/matrix spike duplicate samples were collected at SB-134 (B-3) in accordance with QA/QC requirements. Soil samples were packaged in a cooler on ice and shipped to Severn Trent Laboratories in Savannah, Georgia via overnight carrier. A Level IV reporting package that is compliant with the MADEP's content, format, and certification requirements was completed and is presented in Appendix B. The data validation report to meet presumptive certainty is presented in Appendix C - Soil and Groundwater Data Validation Report.

4.4 Soil Sampling Results

Soil data for vinyl chloride were averaged using four data sets and then compared to the applicable MCP standards. Soil data were averaged using the following data sets:

- the 10 samples collected in May 2006 (Table 4-1);
- the entire soil data set across the disposal site from August 1997 to May 2006 (Table 4-2);
- subsurface data within the target area (Table 4-3); and
- data around the perimeter of the target area (Table 4-4).

Based on the May 2006 post-injection soil sampling results, concentrations of VC in the subsurface within the target zone ranged from below detection limit (0.0051 mg/kg) at SB-132 to 550 mg/kg at SB-140. The average soil concentration of VC for these 10 samples was 188 mg/kg. This is below the current UCL for VC for soil at 300 mg/kg. A comparison of these VOC analytical results to MADEP MCP numerical standards is presented in Table 4-1. In April 2006, the MADEP revised the MCP Method 1 standards, as well as the reportable concentrations in both soil and groundwater (MADEP, 2006). Table 4-1 presents a comparison of the soil analytical results to these revised standards. The previous standards are presented in the table in parentheses next to their respective revised standards. Although four of the ten soil samples were reported with concentrations above the UCL, the average concentration for this data set remains below the UCL.

An average vinyl chloride concentration in soil of 108 mg/kg was estimated across for the disposal site per 40.0996 (2)(a) using current and historical data (Table 4-2). These data include surface and subsurface soil, as well as data within the target area and data from around the perimeter of the target area or "hot spot." However, it should be noted that 80% of this data is within the target area.

An average vinyl chloride concentration in soil of 161 mg/kg was estimated for samples within the "hot spot" per 40.099b (2)(b) using current and historical data (Table 4-3). This average excludes surface soil and perimeter data.

The average vinyl chloride concentration in soils around the perimeter of the target area was estimated at 0.05 mg/kg (Table 4-4). This estimate also excludes surface soils.

Based on this evaluation, average vinyl chloride concentrations of both the more recent post-injection data collected in 2006 and the historical data within the target area remain below the current UCL of 300 mg/kg.

5. Phase V Completion Statement

5.1 Licensed Site Professional Opinion

This final Phase V Report, prepared on behalf of Solutia by BBL, has been completed in conformance with the objectives and scope of the MCP Phase III Remedial Action Plan and Phase IV Remedy Implementation Plan (BBL, 2003b), 120-Day Status Report and RAM Plan Modifications (BBL, 2000c), RAM Plan (BBL, 2000b), and MCP Phase II CSA Report (BBL, 2000a). The MCP Phase V OMM activities have been performed in conformance with the MCP. Copies of the public notifications for this submission are presented in Appendix F.

One objective of the MCP Phase V OMM activities is to degrade the average VC concentration in soil to below the UCL (BBL, 2000a) for continued industrial land use. In accordance with the MCP Phase II Method 3 risk characterization goals, the calculated remedial goal for VC in soil was originally determined to be 119 mg/kg. Because this value was higher than the 1993 MCP UCL for VC (20 mg/kg), the cleanup objective was set at the lower UCL to meet MCP requirements. However, the January 9, 2006 MCP revision increased the standard to 300 mg/kg. Given that the average concentration in soils following the Phase I, Phase II, and Phase III injection activities was 108 mg/kg, the objective has been met. Additional random soil confirmation sampling was conducted to evaluate and confirm soil concentrations following Phase III injection activities. The subsequent soil confirmation soil sampling reported herein (Section 4.0) further supports that the average concentration within the source area (hot spot and target area) remain below the UCL of 300 mg/kg.

Two additional objectives of the MCP Phase V OMM activities are to mitigate the potential for VC to leach to groundwater and to demonstrate the adequacy of NA. Based on historical groundwater sampling analytical results, VC concentrations have decreased from December 1998 to May 2005 in support of ongoing NA. A significant decrease in VC concentrations has been observed post-injection (i.e., after April 2000) and has not rebounded.

A previous status report (BBL, 2001b) presents evidence that naturally occurring oxidation/reduction reactions are occurring, including:

- aerobic respiration;
- iron reduction; and
- methanogenesis.

Reductive dechlorination is also apparent based on the dissolved ethane. These natural attenuating processes are occurring at a faster rate than existing plume migration. Based on the data collected from 1999 to 2006, the plume extent and concentration have significantly diminished. (See Figure 4-1 and 4-2 of the *MCP Second Semi-Annual 2001 Release Abatement Measures Status Report for Former Vinyl Chloride Gas Holder Area, RTN 1-11901*, August 2001, for the 1999 groundwater plume extent and concentration.) The rate of degradation has been sufficient to limit the plume extent to within the Solutia property and has remained at least 600 feet from a surface water body (BBL, 2001b). Since the release occurred approximately 50 years ago, the plume is approximately 600 feet downgradient from the source, yet a solute transport model suggests the plume should have reached twice the current size (BBL, 2001b). An evaluation of site-specific vinyl chloride half-lives (BBL, 2002b) supports ongoing degradation. The degradation rate exceeds the rate of plume migration and is shrinking. Based on the half-life estimates, a 50% mass reduction occurs within 2 years (BBL, 2002b). Half-life was estimated to range between 14 and 654 days. This half-life rate further supports ongoing degradation.

The continued low concentrations of VOCs in groundwater supports that leaching to groundwater has been significantly restricted, and following chemical oxidation treatment, the available source for leaching to groundwater has been diminished to concentrations that are below the levels identified in the site-specific risk assessment (BBL, 2000a) necessary to achieve a condition of no significant risk.

Given that the objectives of the response actions have been met and a condition of no significant risk has been achieved, a Class A-3 Response Action Outcome can be applied to RTN 1-11901 upon the completion of the following:

- An activity use limitation for continued industrial (non residential) land use per 40.1074;
- A surveyed description of the area subject to the AUL, as well as a map showing boundaries of the disposal area applicable to the RAO;
- Summary of the results of feasibility evaluation that support that achieving background conditions are not feasible per 40.0860;
- Data usability assessment per 40.1056 (2)(k) documenting the data used to support the RAO is scientifically valid and defensible; and
- Data representative evaluation per 40.1056(2)(k) documenting the adequacy of the spatial and temporal data sets to support the RAO.

It is expected that continued groundwater monitoring annually for up to two years will be implemented until the AUL is registered with Hampden County.

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TABLES

BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

TABLE 3-1
WATER LEVEL ELEVATIONS
(1988 - 2006)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Well No.	Well Depth (ft. , TOIC)	Casing Elevation (ft.)	July 1988 Water Level Elevation (ft.)	March 1989 Water Level Elevation (ft.)	December 1990 Water Level Elevation (ft.)	October 1991 Water Level Elevation (ft.)	August 1994 Water Level Elevation (ft.)	February 11, 1997 Water Level [2] Elevation (ft.)	March 18. 1997 Water Level [3] Elevation (ft.)	December 1998 Water Level [4] Elevation (ft.)	November 1999 Water Level [4] Elevation (ft.)
MW-56 S	23.44	136.09	NA	119.66	119.41	119.58	119.18	NA	N/A	NA	NA
MW-58 S	23.95	142.61	NA	134.11	134.74	135.24	135.25	135.37	135.38	134.99	134.94
MW-59 S	19.72	145.48	NA	141.28	141.98	141.94	142.61	142.51	141.54	141.2	NA
MW-60 S	30.3	145.28	NA	135.63	136.94	136.92	137.38	N/A	N/A	NA	NA
MW-61 S	23.83	142.59	130.26	NA	NA	130.41	130.59	130.8	130.82	130.62	NA
MW-62 S	20.89	136.4	124.15	NA	NA	125.88	125.25	125.18	125.16	124.65	NA
MW-63 S	21.72	134.85	124.41	NA	125.17	125.50	125.15	125.16	N/A	124.77	NA
MW-64 S	18.69	141.58	NA	NA	NA	135.03	NA	NA	NA	NA	NA
MW-64 RE [1]	18.69	141.69	NA	NA	NA	NA	134.71	N/A	N/A	NA	NA
MW-65 S	20.09	144.49	NA	NA	132.03	132.27	132.17	N/A	N/A	NA	NA
TB-1	14.00	149.41	NA	NA	NA	NA	NA	137.24	136.94	135.79	NA
TB-2	14.00	142.53	NA	NA	NA	NA	NA	DRY	DRY	NA	NA
TB-3	17.00	148.18	NA	NA	NA	NA	NA	137.10	136.65	135.23	NA
TB-5	17.00	145.59	NA	NA	NA	NA	NA	136.05	136.64	135.22	NA
TB-6	20.00	148.17	NA	NA	NA	NA	NA	137.49	137.12	135.53	NA
TB-7	17.00	142.78	NA	NA	NA	NA	NA	130.10	129.76	128.29	NA
RW-1	28.00	146.20	NA	NA	NA	NA	NA	134.05	125.02	N/A	NA
RW-2	28.00	148.01	NA	NA	NA	NA	NA	137.36	137.00	N/A	NA
RW-3	29.00	146.84	NA	NA	NA	NA	NA	137.28	136.99	N/A	NA
RW-4 (TB-4)	17.00	148.14	NA	NA	NA	NA	NA	137.22	136.84	135.65	NA
(EP) MW-1	20.00	145.37	NA	NA	NA	NA	NA	132.74	132.52	131.39	NA
(EP) MW-2	20.00	142.78	NA	NA	NA	NA	NA	126.69	126.51	128.57	NA
MW-83 S	18	140.64	NA	NA	NA	NA	NA	136.79	136.59	135.75	135.49
MW-84 S	22	148.50	NA	NA	NA	NA	NA	136.49	136.41	135.6	NA
MW-85 S	27	176.08	NA	NA	NA	NA	NA	158.15	157.95	155.69	NA
MW-86 S	28	154.22	NA	NA	NA	NA	NA	136.97	136.73	135.79	NA
MW-87 S	13.76	140.43	NA	NA	NA	NA	NA	NA	NA	136.01	135.6
MW-92 S	12.56	140.47	NA	NA	NA	NA	NA	NA	NA	135.66	135.63
MW-93 A	25.61	139.77	NA	NA	NA	NA	NA	NA	NA	134.66	134.62
MW-93 B	14.7	139.79	NA	NA	NA	NA	NA	NA	NA	134.66	134.54
MW-94 S	14.81	139.99	NA	NA	NA	NA	NA	NA	NA	135.08	134.28
MW-95 S	14	144	NA	NA	NA	NA	NA	NA	NA	136.04	135.76
MW-96 SF	NA	140.05	NA	NA	NA	NA	NA	NA	NA	NA	134.7
MW-97 S	NA	139.2	NA	NA	NA	NA	NA	NA	NA	NA	134.63
MW-98 D	NA	140.58	NA	NA	NA	NA	NA	NA	NA	NA	134.55
MW-99 S	NA	140.46	NA	NA	NA	NA	NA	NA	NA	NA	135.12
SB-92 (DW-1)	23.68	136.89	NA	NA	NA	NA	NA	NA	NA	129.63	NA
SB-93 (DW-2)	16.48	136.47	NA	NA	NA	NA	NA	NA	NA	120.88	NA
SB-94 (DW-3)	20.04	137.09	NA	NA	NA	NA	NA	NA	NA	117.14	NA
SB-95 (DW-4)	20.03	139.27	NA	NA	NA	NA	NA	NA	NA	119.93	NA
SB-96 (DW-5)	14.27	136.15	NA	NA	NA	NA	NA	NA	NA	124.7	NA
SB-97 (DW-6)	23.35	143.66	NA	NA	NA	NA	NA	NA	NA	122.32	NA
SB-98 (DW-7)	17.51	150.29	NA	NA	NA	NA	NA	NA	NA	135.66	NA
SB-105	7.74	141.34	NA	NA	NA	NA	NA	NA	NA	NA	NA
SRP-1	118.06		NA	114.29	NA	NA	NA	NA	NA	NA	NA
SRP-2	119.59		NA	NA	NA	NA	115.79	NA	NA	NA	NA

See Notes on Page 3.

TABLE 3-1
WATER LEVEL ELEVATIONS
(1988 - 2006)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Well No.	Well Depth (ft. , TOIC)	Casing Elevation (ft.)	April 2000 Water Level [4] Elevation (ft.)	March 12, 2001 Water Level [4] Elevation (ft.)	March 23, 2001 Water Level [4] Elevation (ft.)	June 29, 2001 Water Level [4] Elevation (ft.)	July 1, 2002 Water Level Elevation (ft.)	February 2003 Water Level Elevation (ft.)	July 16, 2004 Water Level Elevation (ft.)	May 5, 2005 Water Level Elevation (ft.)	May 2006 Water Level Elevation (ft.)
MW-56 S	23.44	136.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-58 S	23.95	142.61	135.52	135.73	136.25	135.49	135.44	135.47	135.47	135.99	134.88
MW-59 S	19.72	145.48	141.4	141.59	141.78	141.61	NA	NA	NA	NA	NA
MW-60 S	30.3	145.28	138.05	NA	NA	137.89	NA	NA	NA	NA	NA
MW-61 S	23.83	142.59	130.86	NA	NA	130.92	NA	NA	NA	NA	NA
MW-62 S	20.89	136.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-63 S	21.72	134.85	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-64 S	18.69	141.58	134.64	NA	NA	NA	NA	NA	NA	NA	NA
MW-64 RE [1]	18.69	141.69	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-65 S	20.09	144.49	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-1	14.00	149.41	135.43	NA	NA	NA	NA	NA	NA	NA	NA
TB-2	14.00	142.53	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	17.00	148.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-5	17.00	145.59	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-6	20.00	148.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-7	17.00	142.78	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-1	28.00	146.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-2	28.00	148.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-3	29.00	146.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-4 (TB-4)	17.00	148.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
(EP) MW-1	20.00	145.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
(EP) MW-2	20.00	142.78	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-83 S	18	140.64	135.94	136.36	137.51	135.87	136.39	136.44	136.16	137.04	137.06
MW-84 S	22	148.50	136.09	NA	137.17	136.01	NA	NA	NA	NA	136.53
MW-85 S	27	176.08	157.97	NA	156.66	161.92	NA	NA	NA	NA	160.22
MW-86 S	28	154.22	135.97	NA	137.74	135.87	NA	NA	NA	NA	137.20
MW-87 S	13.76	140.43	135.89	136.39	137.21	135.85	136.32	136.32	136.19	136.90	137.04
MW-92 S	12.56	140.47	135.97	136.25	137.29	135.91	NA	136.47	136.11	136.80	136.90
MW-93 A	25.61	139.77	135.23	135.45	135.93	135.19	135.06	135.15	135.19	135.57	135.57
MW-93 B	14.7	139.79	135.13	135.35	NA	135.11	134.95	NA	NA	NA	135.47
MW-94 S	14.81	139.99	134.92	135.91	136.29	135.56	135.54	135.83	135.67	NA	136.18
MW-95 S	14	144	136.84	NA	137.76	136.15	136.65	136.61	136.60	137.5	137.51
MW-96 SF	NA	140.05	135.22	135.48	135.91	135.21	135.02	135.72	135.23	135.63	135.67
MW-97 S	NA	139.2	135.04	135.3	135.71	135.06	NA	NA	NA	NA	135.41
MW-98 D	NA	140.58	135.09	NA	135.79	135.09	134.88	134.89	135.03	135.46	135.34
MW-99 S	NA	140.46	135.86	NA	136.93	135.76	135.76	NA	NA	NA	136.05
SB-92 (DW-1)	23.68	136.89	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-93 (DW-2)	16.48	136.47	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-94 (DW-3)	20.04	137.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-95 (DW-4)	20.03	139.27	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-96 (DW-5)	14.27	136.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-97 (DW-6)	23.35	143.66	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-98 (DW-7)	17.51	150.29	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-105	7.74	141.34	136.11	NA	NA	NA	136.54	NA	NA	NA	NA
SRP-1	118.06		NA	NA	NA	NA	NA	NA	NA	NA	NA
SRP-2	119.59		NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 3.

TABLE 3-1
WATER LEVEL ELEVATIONS
(1988 - 2006)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

General Notes:
MW - Monitoring well.
SRP - Stream reference point located on the Chicopee River.
NA - Water levels not obtained, well not installed yet or abandoned well.
RE - Revised elevation resurveyed on 8/3/94 after repairs.
TOIC - Top of inner casing.
S - Well installed at the water table, shallow well.
NA - Not available well not installed yet.
N/A - Not available water level not collected during this monitoring event.
1 - Datum elevation was changed; resurveyed 8/3/94.
2 - Water levels collected during non pumping conditions (recovery wells installed at styrene AST Area in 1995).
3 - Water levels collected during pumping conditions (one or more of the recovery wells installed in 1995 operational at Styrene AST Area).
4 - Water levels collected during non pumping conditions (however wells were shut down one day before measurements were collected).
Elevations are based on the plant datum, which is 0.45 feet above the National Geodetic Vertical Datum (NGVD) of 1929.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-58S
Sample Date	RCs for		Method 1 Standard		7/15/1986	8/21/1987	8/21/1987	2/8/1988	3/21/1989	11/30/1990	10/16/1991	8/18/1994
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	DUP	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	--	--	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
2-Butanone	50	100	50	50	--	--	--	--	--	--	--	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	--
2-Hexanone	10	--	--	--	--	--	--	--	--	--	--	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	--	--	--	--	--	--	--	ND (0.01)
Acetone	50	100	50	50	--	--	--	--	--	--	--	ND (0.01)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.005)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)
Carbon disulfide	10	--	--	--	--	--	--	--	--	--	--	ND (0.005)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	ND (0.01)	ND (0.1)	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Trichlorofluoromethane					--	--	--	--	--	ND (0.001)	ND (0.001)	--
Vinyl acetate	100				--	--	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.02 (0.001)***	***0.016 (0.001)***	***0.017 (0.001)***	***0.012 (0.001)***	***0.011 (0.001)***	***0.01 (0.001)***	***0.005 (NA)***	ND (0.01)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.003)	ND (0.005)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-58S
Sample Date	RCs for		Method 1 Standard		11/26/1996	2/12/1997	12/29/1998	11/23/1999	4/19/2000	6/27/2001	7/1/2002
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	**0.00064 J (0.001)**	**0.0007 J (0.001)**
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.005)	ND (0.005)	ND (0.005)	--	ND (0.001)	ND (0.001)	ND (0.001)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	**0.0059 J (0.01)**	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	**0.005 J (0.01)**	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	ND (0.001)	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	**0.002 (0.005)**	ND (0.005)	**0.011 (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	**0.004 JB (0.005)**	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	**0.003 (0.005)**	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	ND (0.001)	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				ND (0.01)	ND (0.01)	ND (0.01)	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.003 J (0.01)***	***0.003 J (0.01)***	ND (0.01)	***0.0034 (0.001)***	***0.0033 (NA)***	***0.0023 (0.001)***	***0.01 (0.001)***
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-58S	MW-59S
Sample Date	RCs for		Method 1 Standard		7/1/2002	2/4/2003	2/4/2003	7/16/2004	5/5/2005	5/9/2006	7/15/1986
Sample Type	GW-2	UCL	GW-2	GW-3	DUP	FS	DUP	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.005)	**0.00024 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.005)	**0.00038 J (0.005)**	ND (0.001)	**0.00038 J (0.001)**	ND (0.001)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.002)	ND (0.002)	ND (0.002)	--
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.01)	**0.00074 J (0.025)**	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	--
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	ND (0.01)
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.025)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	--
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.025)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	--
Acetone	50	100	50	50	ND (0.025)	ND (0.05)	ND (0.05)	ND (0.025)	ND (0.025)	ND (0.025)	--
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	**0.0001 J (0.005)**	**0.00014 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.002)	--
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	**0.00054 J (0.001)**	ND (0.001)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	**0.002 (0.001)**
Chloromethane	10	--	--	--	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.005)	**0.00012 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.005)	ND (0.001)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.005)	**0.00011 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	--
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	**0.00079 J (0.005)**	**0.004 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	--	--	ND (0.001)
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.01 (0.001)***	***0.0038 J (0.005)***	***0.0036 J (0.005)***	***0.0071 (0.001)***	***0.0053 (0.001)***	***0.0051 (0.001)***	ND (0.001)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	**0.0002 J (0.01)**	**0.00038 J (0.01)**	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-59S	MW-59S	MW-59S	MW-59S	MW-59S	MW-59S	MW-59S	MW-59S
Sample Date	RCs for		Method 1 Standard		8/21/1987	3/21/1989	11/30/1990	10/16/1991	8/18/1994	2/12/1997	12/29/1998	4/20/2000
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	**0.00028 J (NA)**
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
2-Butanone	50	100	50	50	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	--	--	--	--
2-Hexanone	10	--	--	--	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)
Carbon disulfide	10	--	--	--	--	--	--	--	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	ND (0.01)	ND (0.01)	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	**0.035 (0.005)**	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	**0.002 (0.001)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	**0.0004 J (NA)**
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	ND (0.001)	ND (0.001)	--	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)
Trichlorofluoromethane					--	--	ND (0.001)	ND (0.001)	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	ND (0.01)	ND (0.01)	--
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.003)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-60S	MW-60S	MW-60S	MW-60S	MW-60S	MW-60S	MW-60S	MW-83S
Sample Date	RCs for		Method 1 Standard		7/15/1986	8/21/1987	3/17/1988	12/3/1990	10/16/1991	8/18/1994	4/20/2000	2/12/1997
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	***0.011 (0.005)***
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	***0.15 (0.005)***
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
2-Butanone	50	100	50	50	--	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	--	--	--
2-Hexanone	10	--	--	--	--	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	--	--	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	--	--	--	--	--	ND (0.01)	ND (0.025)	ND (0.01)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.005)	ND (0.001)	ND (0.005)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)	ND (0.01)
Carbon disulfide	10	--	--	--	--	--	--	--	--	ND (0.005)	ND (0.001)	ND (0.005)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.01)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.001)	ND (0.01)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Dichlorodifluoromethane	100	--	--	--	--	--	--	ND (0.01)	ND (0.01)	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	***17 (0.5)*** **
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	**0.006 (0.005)**
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.005)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	**1.9 (0.5)**
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	***0.029 (0.005)***
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	**0.01 (0.005)**
Trichlorofluoromethane					--	--	--	ND (0.001)	ND (0.001)	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	--	ND (0.01)
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.001)	***2.2 (1)***
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.003)	ND (0.005)	ND (0.002)	ND (0.005)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-83S	MW-83S	MW-83S	MW-83S	MW-83S	MW-83S	MW-83S
Sample Date	RCs for		Method 1 Standard		12/28/1998	11/23/1999	4/20/2000	4/20/2000	6/28/2001	7/1/2002	2/5/2003
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	DUP	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.25)	ND (0.001)	**0.00015 J (NA)**	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.25)	ND (0.001)	**0.00042 J (NA)**	**0.00036 J (NA)**	ND (0.025)	ND (0.004)	ND (0.005)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.25)	***0.0065 J (0.001)***	***0.0074 (NA)***	***0.0075 (NA)***	ND (0.025)	**0.0028 J (0.004)**	ND (0.005)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.25)	--	**0.091 (NA)**	**0.089 (NA)**	ND (0.025)	**0.0037 J (0.004)**	**0.0025 J (0.01)**
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
2-Butanone	50	100	50	50	ND (0.5)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.25)	ND (0.04)	ND (0.025)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.5)	ND (0.01)	**0.0017 J (NA)**	ND (0.01)	ND (0.25)	ND (0.04)	ND (0.025)
4-Methyl-2-pentanone	50	100	50	50	ND (0.5)	ND (0.01)	**0.0014 J (NA)**	ND (0.01)	ND (0.25)	ND (0.04)	ND (0.025)
Acetone	50	100	50	50	ND (0.5)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.62)	ND (0.1)	ND (0.05)
Benzene	2	100 (70)	2	10 (7)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	**0.00049 J (0.005)**
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Bromomethane	0.002	100	0.002	50	ND (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Carbon disulfide	10	--	--	--	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Chloroethane	10	--	--	--	ND (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	**0.011 (0.004)**	ND (0.005)
Chloroform	0.4	100	0.4	10	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Chloromethane	10	--	--	--	ND (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	**0.038 J (0.001)**	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	***4.9 (0.25)****	**0.17 (0.001)**	**0.057 (NA)**	**0.055 (NA)**	***4.3 (0.025)****	**0.53 (0.004)**	***4.6 D (0.25)****
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.25)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.12)	**0.0017 J (0.02)**	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.25)	ND (0.001)	**0.002 (NA)**	**0.002 (NA)**	***0.54 (0.025)***	**0.001 J (0.004)**	***2.1 D (0.25)***
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.25)	**0.0028 (0.001)**	**0.0015 (NA)**	**0.0014 (NA)**	ND (0.025)	**0.0017 J (0.004)**	**0.0053 (0.005)**
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	ND (0.001)	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.25)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.025)	ND (0.004)	ND (0.005)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.25)	**0.0012 (0.001)**	**0.0016 (NA)**	**0.0015 (NA)**	ND (0.025)	ND (0.004)	**0.00013 J (0.005)**
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				ND (0.5)	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.57 (0.5)***	***1.6 D (0.01)***	***2.3 D (NA)***	***2.2 D (NA)***	***0.16 (0.025)***	***0.15 (0.004)***	***0.16 (0.005)***
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.25)	ND (0.002)	**0.00049 J (NA)**	ND (0.002)	**0.018 J (0.05)**	ND (0.008)	ND (0.01)

See Notes on Page 20.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-83S	MW-83S	MW-83S	MW-83S	MW-84S	MW-84S	MW-84S
Sample Date	RCs for		Method 1 Standard		7/16/2004	5/5/2005	5/5/2005	5/10/2006	2/12/1997	12/29/1998	4/20/2000
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	DUP	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.1)	ND (0.01)	***0.01 (0.001)***	ND (0.005)	ND (0.005)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.002)	ND (0.2)	ND (0.02)	**0.0032 (0.002)**	ND (0.005)	ND (0.005)	ND (0.001)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.01)	ND (1)	ND (0.1)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (1)	ND (0.1)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (1)	ND (0.1)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	ND (0.025)	ND (2.5)	ND (0.25)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	**0.9 (0.001)**	***11 (0.1)***	***9.1 (0.1)***	**0.66 D (0.005)**	ND (0.005)	ND (0.005)	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.1)	ND (0.01)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	***1.7 (0.1)***	***1.2 (0.01)***	**0.00082 J (0.001)**	**0.004 J (0.005)**	ND (0.005)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.1)	**0.0062 J (0.01)**	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.1)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.1)	ND (0.01)	**0.0011 (0.001)**	ND (0.005)	ND (0.005)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	ND (0.01)	ND (0.01)	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.12 (0.001)***	***0.096 J (0.1)***	***0.1 (0.01)***	***0.073 (0.001)***	ND (0.01)	ND (0.01)	ND (0.001)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	ND (0.2)	ND (0.02)	ND (0.002)	**0.003 J (0.005)**	ND (0.005)	ND (0.002)

See Notes on Page 20.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-84S	MW-84S	MW-85S	MW-85S	MW-85S	MW-86S	MW-86S	MW-86S
Sample Date	RCs for		Method 1 Standard		6/29/2001	5/9/2006	2/12/1997	1/5/1999	5/10/2006	2/12/1997	2/12/1997	12/29/1998
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	DUP	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.001)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.5)	ND (0.5)	ND (1)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (1)	ND (1)	ND (2)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (1)	ND (1)	ND (2)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (1)	ND (1)	ND (2)
Acetone	50	100	50	50	ND (0.025)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.025)	ND (1)	ND (1)	ND (7.5)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)	ND (1)	ND (1)	ND (2)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.5)	ND (0.5)	ND (1)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)	ND (1)	ND (1)	ND (2)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)	ND (1)	ND (1)	ND (2)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	***36 (1.2)*****	***40 (1.2)*****	***23 (1)*****
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.5)	ND (0.5)	ND (1)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	***0.3 J (0.5)***	***0.55 (0.5)***	ND (1)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	**0.32 J (0.5)**	**0.44 J (0.5)**	ND (1)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.5)	ND (0.5)	ND (1)
Trichlorofluoromethane					--	--	--	--	--	--	--	--
Vinyl acetate	100				--	--	ND (0.01)	ND (0.01)	--	ND (1)	ND (1)	ND (2)
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)	ND (0.001)	ND (1)	ND (1)	ND (2)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	ND (0.002)	**0.004 J (0.005)**	ND (0.005)	ND (0.002)	ND (0.5)	ND (0.5)	***16 (1)*****

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-86S	MW-86S	MW-87S	MW-87S	MW-87S	MW-87S	MW-87S	MW-87S
Sample Date	RCs for		Method 1 Standard		6/29/2001	5/10/2006	12/29/1998	11/19/1999	4/19/2000	6/28/2001	6/28/2001	7/1/2002
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	DUP	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.04)	ND (0.1)	ND (1)	--	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
2-Butanone	50	100	50	50	ND (0.4)	ND (0.5)	ND (2)	ND (1)	ND (0.4)	ND (0.5)	ND (0.5)	ND (1)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.4)	ND (0.5)	ND (2)	ND (1)	ND (0.4)	ND (0.5)	ND (0.5)	ND (1)
4-Methyl-2-pentanone	50	100	50	50	ND (0.4)	ND (0.5)	ND (2)	ND (1)	ND (0.4)	ND (0.5)	ND (0.5)	ND (1)
Acetone	50	100	50	50	ND (1)	ND (1.3)	ND (2)	ND (2.5)	ND (1)	ND (1.2)	ND (1.2)	ND (2.5)
Benzene	2	100 (70)	2	10 (7)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	**0.0088 J (0.05)**	**0.017 J (0.05)**	ND (0.1)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Bromomethane	0.002	100	0.002	50	ND (0.04)	ND (0.05)	ND (2)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Carbon disulfide	10	--	--	--	ND (0.04)	ND (0.1)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.04)	**0.054 (0.05)**	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Chloroethane	10	--	--	--	ND (0.04)	ND (0.05)	ND (2)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Chloroform	0.4	100	0.4	10	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Chloromethane	10	--	--	--	ND (0.04)	ND (0.05)	ND (2)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	ND (0.1)	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	***5.7 (0.04)***	***6.1 (0.05)***	***20 (1)***	***26 D (0.2)***	***7 (NA)***	***21 D (0.2)***	***22 D (0.2)***	***11 (0.1)***
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.2)	ND (0.25)	ND (1)	ND (0.5)	ND (0.2)	ND (0.25)	ND (0.25)	**0.04 J (0.5)**
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	**0.071 (0.04)**	***1.8 (0.05)***	ND (1)	ND (0.1)	***0.63 (NA)***	***26 D (0.2)***	***27 D (0.2)***	ND (0.1)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	**0.033 J (0.05)**	**0.046 J (0.05)**	ND (0.1)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	ND (0.1)	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	ND (0.05)	ND (0.05)	ND (0.1)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.04)	ND (0.05)	ND (1)	ND (0.1)	ND (0.04)	**0.013 J (0.05)**	**0.015 J (0.05)**	ND (0.1)
Trichlorofluoromethane					--	--	--	--	--	--	--	--
Vinyl acetate	100				--	--	ND (2)	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.04)	ND (0.05)	ND (2)	ND (0.1)	***0.11 (NA)***	ND (0.05)	ND (0.05)	ND (0.1)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.08)	ND (0.1)	ND (1)	ND (0.2)	ND (0.08)	ND (0.1)	ND (0.1)	ND (0.2)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-87S	MW-87S	MW-87S	MW-87S	MW-92S	MW-92S	MW-92S
Sample Date	RCs for		Method 1 Standard		2/4/2003	7/16/2004	5/5/2005	5/10/2006	12/28/1998	11/23/1999	6/29/2001
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	**0.0005 J (0.01)**	ND (0.002)	ND (0.2)	ND (0.002)	ND (0.005)	--	ND (0.001)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.025)	ND (0.01)	ND (1)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.025)	ND (0.01)	ND (1)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.025)	ND (0.01)	ND (1)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	ND (0.05)	ND (0.025)	ND (2.5)	ND (0.025)	ND (0.01)	ND (0.025)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	**0.001 J (0.005)**	ND (0.001)	ND (0.1)	**0.00054 J (0.001)**	ND (0.005)	ND (0.001)	**0.00037 J (0.001)**
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.002)	ND (0.005)	ND (0.001)	**0.00042 J (0.001)**
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	**0.004 J (0.005)**	ND (0.001)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.01)	**0.0014 (0.001)**	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	ND (0.001)	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	***23 D (1.25)*****	***4.1 (0.001)*****	***16 (0.1)*****	**0.029 (0.001)**	**0.026 (0.005)**	ND (0.001)	**0.0016 (0.001)**
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.1)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	***10 DB (1.25)*****	ND (0.001)	***3.4 (0.1)***	ND (0.001)	ND (0.005)	ND (0.001)	**0.00024 J (0.001)**
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	**0.018 (0.005)**	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	--	ND (0.001)	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	**0.00021 J (0.005)**	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	ND (0.01)	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.012 (0.005)***	ND (0.001)	ND (0.1)	ND (0.001)	ND (0.01)	***0.014 (0.001)***	**0.0007 J (0.001)**
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.01)	ND (0.002)	ND (0.2)	ND (0.002)	ND (0.005)	ND (0.002)	ND (0.002)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-92S	MW-92S	MW-92S	MW-92S	MW-93A	MW-93A	MW-93A
Sample Date	RCs for		Method 1 Standard		2/5/2003	7/16/2004	5/5/2005	5/9/2006	12/28/1998	11/18/1999	4/20/2000
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	***0.0054 (NA)***
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.01)	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.1)	--	**0.00085 J (NA)**
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
2-Butanone	50	100	50	50	**0.0018 J (0.025)**	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.2)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.2)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	**0.0003 J (0.025)**	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.2)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	**0.026 J (0.05)**	ND (0.025)	ND (0.025)	ND (0.13)	ND (0.2)	ND (0.025)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	**0.00017 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	**0.011 (0.001)**	**0.0094 (NA)**
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.2)	ND (0.001)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.1)	ND (0.001)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	**0.00088 J (0.001)**	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.2)	ND (0.001)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.2)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	**0.0013 (0.001)**	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.005)	ND (0.001)	**1.2 (0.001)**	**2.1 D (0.025)**	**0.15 (0.1)**	**0.16 DJ (0.05)**	**0.11 (NA)**
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.025)	ND (0.1)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	**0.000074 J (0.005)**	ND (0.001)	**0.00068 J (0.001)**	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	**0.0012 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	**0.022 (0.001)**	**0.017 (NA)**
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	--	ND (0.001)	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.1)	ND (0.001)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	ND (0.2)	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	**0.00067 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.005)	***2.6 (0.2)***	***4.7 DJ (0.05)***	***4 D (NA)***
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.01)	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.1)	ND (0.002)	**0.00062 J (NA)**

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-93A	MW-93A	MW-93A	MW-93A	MW-93A	MW-93A	MW-93B
Sample Date	RCs for		Method 1 Standard		6/28/2001	7/1/2002	2/5/2003	7/16/2004	5/5/2005	5/10/2006	12/28/1998
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	**0.0046 (0.001)**	**0.0049 (0.001)**	***0.005 (0.005)***	ND (0.001)	**0.0018 (0.001)**	**0.0024 (0.001)**	ND (0.005)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.001)	ND (0.001)	**0.00038 J (0.01)**	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	**0.013 J (0.025)**	ND (0.025)	**0.01 J (0.05)**	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.01)
Benzene	2	100 (70)	2	10 (7)	**0.0041 (0.001)**	**0.0042 (0.001)**	**0.0044 J (0.005)**	ND (0.001)	**0.001 (0.001)**	**0.0011 (0.001)**	ND (0.005)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.002)	ND (0.005)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	**0.012 (0.001)**	**0.0085 (0.001)**	**0.00034 J (0.005)**	ND (0.001)	**0.0068 (0.001)**	ND (0.001)	ND (0.005)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	**0.0014 (0.001)**	ND (0.001)	ND (0.005)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	**0.0052 (0.001)**	**0.0015 (0.001)**	**0.0025 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	ND (0.01)
Vinyl chloride	0.002	0.002	50 (40)	100	***1.2 D (0.01)***	***1 D (0.01)***	***2.1 D (0.1)***	***0.26 (0.001)***	***0.18 (0.001)***	***0.19 (0.001)***	ND (0.01)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	**0.026 (0.002)**	**0.00012 J (0.002)**	**0.00049 J (0.01)**	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-93B	MW-93B	MW-93B	MW-93B	MW-93B	MW-94S	MW-94S
Sample Date	RCs for		Method 1 Standard		11/18/1999	4/19/2000	6/29/2001	5/9/2006	5/9/2006	12/29/1998	12/29/1998
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	DUP	FS	DUP
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	--	ND (0.005)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.01)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.02)	ND (0.02)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.02)	ND (0.02)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.02)	ND (0.02)
Acetone	50	100	50	50	ND (0.025)	ND (0.12)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.02)	ND (0.02)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.02)	ND (0.02)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.005)	**0.00099 J (0.001)**	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.01)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	**0.00096 J (0.001)**	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.02)	ND (0.02)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.02)	ND (0.02)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	ND (0.001)	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	**0.073 (0.01)**	**0.068 (0.01)**
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.01)	ND (0.01)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	**0.005 J (0.01)**	**0.005 J (0.01)**
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	ND (0.001)	--	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.005)	**0.00025 J (0.001)**	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.01)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	ND (0.02)	ND (0.02)
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	ND (0.005)	**0.00064 J (0.001)**	ND (0.001)	ND (0.001)	ND (0.02)	ND (0.02)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	ND (0.01)	**0.00026 J (0.002)**	ND (0.002)	ND (0.002)	**0.43 (0.01)**	**0.47 (0.01)**

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-94S	MW-94S	MW-94S	MW-94S	MW-94S	MW-94S
Sample Date	RCs for		Method 1 Standard		11/23/1999	4/20/2000	6/28/2001	7/1/2002	2/4/2003	7/16/2004
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.002)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.01)	**0.0068 J (NA)**	ND (0.01)	ND (0.01)	**0.0022 J (0.025)**	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	**0.0019 J (0.025)**	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.01)
Acetone	50	100	50	50	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	**0.0079 J (0.05)**	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	**0.0003 J (0.001)**	ND (0.001)	**0.00029 J (0.001)**	ND (0.001)	**0.00052 J (0.005)**	**0.00045 J (0.001)**
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.001)	**0.0011 (0.001)**	ND (0.001)	ND (0.005)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	**0.00099 J (0.001)**	**0.0023 (NA)**	**0.002 (0.001)**	**0.0024 (0.001)**	**0.0018 J (0.005)**	**0.0015 (0.001)**
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	ND (0.001)	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	**0.0012 (0.001)**	**0.025 (NA)**	**0.012 (0.001)**	**0.0015 (0.001)**	ND (0.005)	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	**0.00029 J (0.001)**	**0.00062 J (NA)**	**0.0015 (0.001)**	**0.001 (0.001)**	**0.0022 J (0.005)**	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	ND (0.001)	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	**0.001 (0.001)**	**0.0012 (NA)**	**0.00077 J (0.001)**	**0.00045 J (0.001)**	**0.00014 J (0.005)**	ND (0.001)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	**0.0056 (0.002)**	**0.15 (NA)**	**0.04 (0.002)**	**0.016 (0.002)**	**0.0045 J (0.01)**	**0.0024 (0.002)**

See Notes on Page 20.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-94S	MW-95S	MW-95S	MW-95S	MW-95S	MW-95S	MW-95S
Sample Date	RCs for		Method 1 Standard		5/10/2006	12/28/1998	11/23/1999	4/20/2000	6/26/2001	6/26/2002	2/4/2003
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.002)	ND (0.005)	--	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.01)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)	**0.0011 J (0.025)**
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.025)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.025)
Acetone	50	100	50	50	**0.011 J (0.025)**	ND (0.01)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.05)	**0.0068 J (0.05)**
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	**0.00012 J (0.001)**	ND (0.005)	ND (0.005)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.005)
Carbon disulfide	10	--	--	--	ND (0.002)	ND (0.005)	ND (0.001)	ND (0.001)	**0.00073 J (0.001)**	ND (0.005)	ND (0.005)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	**0.0013 (0.001)**	ND (0.005)	ND (0.001)	**0.00036 J (NA)**	ND (0.001)	ND (0.005)	ND (0.005)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.005)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.005)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	ND (0.001)	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	**0.05 (0.001)**	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	**0.007 (0.005)**
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	**0.0014 JB (0.005)**
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	**0.0009 J (0.001)**	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	**0.00038 J (0.005)**
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	ND (0.001)	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	**0.00031 J (0.005)**
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	ND (0.01)	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	**0.00024 J (0.005)**
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	**0.0031 (0.002)**	ND (0.005)	ND (0.002)	**0.00046 J (NA)**	ND (0.002)	ND (0.01)	ND (0.01)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-95S	MW-95S	MW-95S	MW-96SF	MW-96SF	MW-96SF	MW-96SF
Sample Date	RCs for		Method 1 Standard		7/16/2004	5/5/2005	5/9/2006	11/19/1999	4/19/2000	6/28/2001	6/26/2002
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.002)	ND (0.002)	ND (0.002)	--	**0.012 (NA)**	**0.007 (0.001)**	ND (0.005)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	**0.0025 J (0.01)**	ND (0.025)
Acetone	50	100	50	50	ND (0.025)	ND (0.025)	ND (0.025)	**0.016 J (0.025)**	**0.038 (NA)**	**0.046 (0.025)**	**0.11 (0.11)**
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.002)	**0.00074 J (0.001)**	**0.0018 (NA)**	**0.002 (0.001)**	**0.014 (0.014)**
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	**0.0082 (0.001)**	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00043 J (NA)**	ND (0.001)	ND (0.005)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	**0.0095 (0.001)**	**0.0087 (NA)**	**0.0044 (0.001)**	**0.005 (0.005)**
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	ND (0.001)	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	**0.002 (0.001)**	**0.0018 (NA)**	**0.00092 J (0.001)**	ND (0.005)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	ND (0.001)	ND (0.001)	***0.018 (0.001)***	***0.012 (NA)***	***0.011 (0.001)***	ND (0.01)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.01)

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TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-96SF	MW-96SF	MW-96SF	MW-96SF	MW-97S	MW-97S	MW-97S
Sample Date	RCs for		Method 1 Standard		2/4/2003	7/16/2004	5/5/2005	5/10/2006	11/23/1999	4/19/2000	6/27/2001
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00023 J (NA)**	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	**0.014 (0.01)**	**0.0093 (0.002)**	**0.0055 (0.002)**	**0.0065 (0.002)**	--	ND (0.001)	ND (0.001)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
2-Butanone	50	100	50	50	**0.0026 J (0.025)**	**0.0045 J (0.01)**	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.025)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	**0.0005 J (0.025)**	**0.0022 J (0.01)**	**0.0014 J (0.01)**	**0.003 J (0.01)**	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	**0.069 (0.05)**	**0.035 (0.025)**	**0.028 (0.025)**	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	**0.00014 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Carbon disulfide	10	--	--	--	**0.00076 J (0.005)**	**0.0018 (0.001)**	ND (0.001)	**0.004 (0.002)**	ND (0.001)	ND (0.001)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	--	ND (0.001)	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00022 J (NA)**	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	**0.0029 J (0.005)**	**0.0034 (0.001)**	**0.004 (0.001)**	**0.004 (0.001)**	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	**0.00076 J (0.005)**	ND (0.001)	ND (0.001)	ND (0.001)	**0.00033 J (0.001)**	ND (0.001)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	--	ND (0.001)	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	**0.0017 J (0.005)**	**0.0015 (0.001)**	**0.00093 J (0.001)**	**0.0013 (0.001)**	**0.0021 (0.001)**	**0.0022 (NA)**	**0.00072 J (0.001)**
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.0088 (0.005)***	***0.0061 (0.001)***	ND (0.001)	**0.0018 (0.001)**	ND (0.001)	ND (0.001)	ND (0.001)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	**0.00019 J (0.01)**	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)

See Notes on Page 20.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-97S	MW-98D	MW-98D	MW-98D	MW-98D	MW-98D	MW-98D
Sample Date	RCs for		Method 1 Standard		5/9/2006	11/19/1999	4/19/2000	6/27/2001	7/1/2002	2/5/2003	7/16/2004
Sample Type	GW-2	UCL	GW-2	GW-3	FS	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	**0.00022 J (NA)**	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.002)	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.01)	ND (0.002)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	**0.0011 J (0.025)**	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.025)	ND (0.01)
Acetone	50	100	50	50	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	**0.0081 J (0.05)**	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00012 J (0.001)**	ND (0.001)	**0.00033 J (0.005)**	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	ND (0.001)	--	--	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.0011 J (0.005)**	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00049 JB (0.005)**	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.0042 J (0.005)**	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	ND (0.001)	--	--	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00023 J (0.001)**	ND (0.001)	ND (0.005)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	ND (0.001)	***0.0042 (0.001)***	***0.0052 (NA)***	***0.0034 (0.001)***	**0.00036 J (0.001)**	**0.0018 J (0.005)**	***0.0068 (0.001)***
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	**0.003 J (0.01)**	ND (0.002)

See Notes on Page 20.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				MW-98D	MW-98D	MW-98D	MW-99S	MW-99S	MW-99S	MW-99S
Sample Date	RCs for		Method 1 Standard		7/16/2004	5/5/2005	5/10/2006	11/19/1999	4/19/2000	6/27/2001	5/9/2006
Sample Type	GW-2	UCL	GW-2	GW-3	DUP	FS	FS	FS	FS	FS	FS
1,1,1-Trichloroethane	4	100	4	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2,2-Tetrachloroethane	0.009 (0.02)	100	0.009 (0.02)	50 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,2-Trichloroethane	0.9 (20)	100	0.9 (20)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	1 (9)	100	1 (9)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.08 (0.001)	100	0.08 (0.001)	30 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00056 J (NA)**	ND (0.001)	ND (0.001)
1,2-Dichloroethane	0.005 (0.02)	100	0.005 (0.02)	20 (50)	ND (0.001)	ND (0.001)	ND (0.001)	**0.0033 (0.001)**	ND (0.001)	ND (0.001)	ND (0.001)
1,2-Dichloroethene, Total	0.1 (30)	--	--	--	ND (0.002)	ND (0.002)	ND (0.002)	--	ND (0.001)	ND (0.001)	ND (0.002)
1,2-Dichloropropane	0.003 (0.009)	100	0.003 (0.009)	50 (30)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
2-Butanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Chloroethylvinyl ether	50	--	--	--	--	--	--	--	--	--	--
2-Hexanone	10	--	--	--	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
4-Methyl-2-pentanone	50	100	50	50	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Acetone	50	100	50	50	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)
Benzene	2	100 (70)	2	10 (7)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromodichloromethane	0.006 (50)	100	0.006	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromoform	0.7 (0.8)	100	0.7 (0.8)	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Bromomethane	0.002	100	0.002	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Carbon disulfide	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.002)
Carbon tetrachloride	0.002 (0.02)	50 (100)	0.002 (0.02)	5 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chlorobenzene	0.2 (0.5)	10	0.2 (1)	1 (0.5)	ND (0.001)	ND (0.001)	ND (0.001)	**0.001 (0.001)**	**0.0004 J (NA)**	ND (0.001)	ND (0.001)
Chlorodibromomethane	0.02 (50)	100	0.02	50	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloroform	0.4	100	0.4	10	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Chloromethane	10	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.1 (30)	100	0.1 (30)	50	--	--	--	ND (0.001)	--	--	--
cis-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Dichlorodifluoromethane	100	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	4	100	30	4	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene chloride	10 (50)	100	10 (50)	50	ND (0.005)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Styrene	0.1 (0.9)	60 (100)	0.1 (0.9)	6 (50)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene	0.05 (3)	100 (50)	0.05 (3)	30 (5)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00052 J (NA)**	ND (0.001)	ND (0.001)
Toluene	4 (6)	80 (100)	8 (6)	4 (50)	ND (0.001)	ND (0.001)	ND (0.001)	**0.00033 J (0.001)**	ND (0.001)	ND (0.001)	ND (0.001)
trans-1,2-Dichloroethene	0.09 (20)	100	0.09 (20)	50	--	--	--	ND (0.001)	--	--	--
trans-1,3-Dichloropropene	0.005	--	--	--	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene	0.03 (0.3)	50 (100)	0.03 (0.3)	5 (20)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichlorofluoromethane					--	--	--	--	--	--	--
Vinyl acetate	100				--	--	--	--	--	--	--
Vinyl chloride	0.002	0.002	50 (40)	100	***0.0073 (0.001)***	***0.0096 (0.001)***	***0.0097 (0.001)***	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Xylenes, Total	0.5 (6)	9 (6)	0.5 (50)	100	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)

See Notes on Page 20.

TABLE 3-2
VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUNDWATER

FIRST SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

General Notes:
1. Results are expressed as milligrams per liter (mg/L); equivalent to parts per million (ppm).
2. MADEP MCP Values from "Final Amendments to 310 CMR 40.0000" revisions effective April 3, 2006. If revised criteria differs from previous version, it is presented in parentheses.
3. Samples from MW-58S and MW-59S collected on 8/18/94 and from MW-58S collected on 11/26/96 were not checked to lab data sheets.
4. Detection limits are presented in parentheses (DL).

FS = Field sample.
DUP = Duplicate sample.
-- = Not analyzed and/or no MCP standard available.
(NA) = Detection Limit not available.

Detected values are in bold-face type.
Detected values above reportable concentrations (RCs for GW-2) are show in italics.
Detected values above Method 1 GW-2 groundwater conditions are underlined.
** Detected above Method 1 GW-3 ground-water conditions.
# Detected above MCP Upper Concentration Limits (UCLs).

Data Qualifiers:
B = The compound was detected in the sample, as well as in the associated blank.
J = The compound was detected below the method quantitation limits and is estimated.
ND = The compound was not detected; the associated number is the quantitation limit.
ND J = The compound was not detected; the associated number is the quantitation limit; the quantitation limit is estimated.

See Notes on Page 20.

TABLE 3-3
FIELD MEASUREMENTS FOR GROUNDWATER
(1997 - 2006)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	Date Collected	Temperature (degrees C)	Conductivity (mS/cm)	pH (Standard Units)	Dissolved Oxygen (Field) (mg/L)	Oxidation Reduction Potential (mV)
EPMW-1	1/5/1999	13.0	1.49	6.51	3.85	--
EPMW-2	2/12/1997	9.2	1.01	6.65	3.36	+ 46
EPMW-2	12/31/1998	13.0	0.76	3.71	1.10	--
MW-58S	2/12/1997	9.8	0.32	7.54	3.59	- 38
MW-58S	8/28/1997	21.1	0.20	7.30	--	--
MW-58S	12/29/1998	15.2	0.32	7.45	0.50	- 24.6
MW-58S	11/23/1999	16.9	0.33	7.52	0.59	-128.1
MW-58S	4/19/2000	11.9	0.36	7.32	0.08	-146
MW-58S	6/27/2001	16.4	0.34	7.01	4.17 / 0-1.0*	-109
MW-58S	7/1/2002	18.0	0.47	--	5.04	+169
MW-58S	2/4/2003	13.0	0.46	7.22	--	--
MW-58S	7/16/2004	17.5	0.50	6.71	--	--
MW-58S	5/5/2005	13.0	0.52	7.17	0.40	-136.3
MW-58S	5/10/2006	13.3	0.46	7.57	NA	-103.2
MW-59S	2/12/1997	8.1	0.44	7.14	3.16	+ 9.0
MW-59S	8/28/1997	22.3	0.33	6.51	--	--
MW-59S	12/29/1998	10.5	0.37	7.90	4.80	- 60.5
MW-59S	4/20/2000	11.7	0.34	7.91	3.05	+17
MW-60S	4/20/2000	10.6	0.24	7.84	2.68	+141
MW-61S	12/31/1998	15.4	1.39	6.53	1.20	+ 21
MW-62S	12/30/1998	14.6	1.00	7.17	1.50	- 15.8
MW-63S	12/30/1998	14.3	0.24	8.08	0.66	- 70.5
MW-80S	11/18/1999	19.3	0.86	7.16	--	--
MW-81D	11/17/1999	12.1	0.54	7.67	--	--
MW-82S	11/17/1999	12.3	1.31	6.70	--	--
MW-83S	2/12/1997	6.1	0.41	6.02	3.10	+ 6.0
MW-83S	8/28/1997	22.7	0.30	6.25	--	--
MW-83S	12/28/1998	13.5	0.42	6.56	1.20	--
MW-83S	11/23/1999	16.5	0.59	6.60	0.32	-61.2
MW-83S	4/20/2000	11.1	0.93	6.30	0.00	-65
MW-83S	6/28/2001	18.4	1.04	6.58	3.69 / 0.15*	-167
MW-83S	7/1/2002	20.6	0.73	6.36	1.44	--
MW-83S	2/5/2003	8.4	0.64	6.87	--	--
MW-83S	7/16/2004	20.6	0.85	6.97	--	--
MW-83S	5/5/2005	11.4	0.93	6.37	0.33	-90.1
MW-83S	5/10/2006	13.8	0.83	8.70	NA	-82.1
MW-84S	2/12/1997	9.0	0.45	6.82	3.21	+ 81
MW-84S	12/29/1998	15.7	0.64	7.07	3.57	- 5.2
MW-84S	4/20/2000	15.4	0.91	6.56	2.82	+113
MW-84S	6/29/2001	19.5	0.44	6.41	6.92 / >1.0*	+121
MW-84S	5/9/2006	16.7	0.61	7.00	4.00	+10.6
MW-85S	2/12/1997	8.6	0.25	6.64	6.21	+ 76
MW-85S	1/5/1999	10.4	0.29	5.96	9.00	--
MW-85S	5/10/2006	10.6	0.82	7.92	NA	+ 13.4
MW-86S	2/12/1997	8.9	0.36	6.60	--	- 93
MW-86S	12/29/1998	12.5	0.50	6.61	2.36	+ 15.3
MW-86S	6/29/2001	--	--	--	--	--
MW-86S	5/10/2006	12.8	0.61	8.04	NA	- 110.5
MW-87S	8/28/1997	20.5	0.32	6.39	--	--
MW-87S	12/29/1998	14.4	0.42	6.58	0.90	+ 16.7
MW-87S	11/19/1999	16.9	0.44	6.39	0.29	-43.6
MW-87S	4/19/2000	12.2	0.62	6.32	0.12	-71
MW-87S	6/28/2001	16.5	0.53	6.20	4.22 / 0.0*	-110
MW-87S	7/1/2002	18.8	0.63	6.17	0.99	+208
MW-87S	2/4/2003	9.7	0.62	7.14	--	--
MW-87S	7/16/2004	19.8	0.79	6.00	--	--
MW-87S	5/5/2005	11.7	0.84	6.28	0.44	-58.7
MW-87S	5/10/2006	13.1	0.84	9.03	NA	-78.7
MW-89D	11/18/1999	14.2	1.77	7.17	--	--

See Notes on Page 3.

TABLE 3-3
FIELD MEASUREMENTS FOR GROUNDWATER
(1997 - 2006)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	Date Collected	Temperature (degrees C)	Conductivity (mS/cm)	pH (Standard Units)	Dissolved Oxygen (Field) (mg/L)	Oxidation Reduction Potential (mV)
MW-90S	11/16/1999	9.6	2.08	6.98	--	--
MW-92S	12/28/1998	14.0	0.55	6.93	3.60	- 8.3
MW-92S	11/23/1999	17.9	0.42	7.10	--	--
MW-92S	6/29/2001	--	--	--	--	--
MW-92S	2/5/2003	8.2	0.56	7.22	--	--
MW-92S	7/16/2004	18.7	0.76	6.92	--	--
MW-92S	5/5/2005	10.7	0.73	6.42	1.39	-65.5
MW-92S	5/9/2006	19.1	0.92	7.08	2.00	-115.2
MW-93A	12/28/1998	14.7	0.85	7.41	4.10	--
MW-93A	11/18/1999	17.5	0.90	7.60	0.25	+152.6
MW-93A	4/20/2000	15.9	1.04	7.45	0.07	-171
MW-93A	6/28/2001	17.1	0.88	7.33	3.97 / 0.3*	-200
MW-93A	7/1/2002	20.7	1.13	7.17	1.15	+129
MW-93A	2/5/2003	13.3	1.09	7.16	--	--
MW-93A	7/16/2004	19.0	0.99	6.75	--	--
MW-93A	5/5/2005	15.8	1.01	7.54	0.20	-155.2
MW-93A	5/10/2006	14.2	0.80	7.21	8.01	-104.6
MW-93B	12/28/1998	15.4	0.72	7.04	1.10	- 3.0
MW-93B	11/18/1999	18.0	1.01	6.69	0.56	-48.7
MW-93B	4/19/2000	13.6	0.89	6.45	0.24	-192
MW-93B	6/29/2001	--	--	--	--	--
MW-93B	5/9/2006	18.9	0.99	6.72	9.42	+32.2
MW-94S	12/29/1998	16.8	0.95	7.20	3.40	- 18.8
MW-94S (DUP)	12/29/1998	16.8	0.95	7.20	3.40	- 18.8
MW-94S	11/23/1999	19.6	0.66	6.98	1.96	-90.6
MW-94S	4/20/2000	17.6	0.73	6.80	2.18	-105
MW-94S	6/28/2001	21.1	0.56	6.69	4.00 / 0.8*	-168
MW-94S	7/1/2002	18.9	0.62	6.94	4.30	+60
MW-94S	2/4/2003	9.4	1.34	7.32	--	--
MW-94S	7/16/2004	18.9	1.32	7.03	--	--
MW-94S	5/10/2006	17.0	1.23	7.81	NA	-76.4
MW-95S	12/28/1998	14.2	0.60	7.61	3.10	- 60
MW-95S	11/23/1999	17.4	0.67	7.80	3.86	+55.3
MW-95S	4/20/2000	11.8	0.72	7.72	2.40	+152
MW-95S	6/26/2002	19.6	0.81	6.90	4.44	+20
MW-95S	2/4/2003	8.4	0.79	7.70	--	--
MW-95S	7/16/2004	18.6	0.79	6.00	--	--
MW-95S	5/5/2005	13.0	0.82	6.91	0.86	+29.0
MW-95S	5/9/2006	13.6	0.75	7.65	8.28	-43.3
MW-96SF	11/19/1999	19.4	0.90	10.49	0.17	-280.1
MW-96SF	4/19/2000	12.1	1.15	11.22	0.00	-273
MW-96SF	6/28/2001	16.7	1.15	10.69	4.20 / 0.2*	-389
MW-96SF	6/26/2002	22.3	0.76	10.20	4.20	+28
MW-96SF	2/4/2003	12.0	0.51	8.76	--	--
MW-96SF	7/16/2004	22.6	0.88	9.92	--	--
MW-96SF	5/5/2005	12.6	1.01	10.95	0.25	-219.9
MW-96SF	5/10/2006	13.9	0.99	10.83	NA	-233.4
MW-97S	11/23/1999	17.7	0.36	6.68	2.61	+138.2
MW-97S	4/19/2000	13.4	0.44	6.29	0.76	+259
MW-97S	6/27/2001	15.5	0.75	6.05	4.86 / >1.0*	+146
MW-97S	5/9/2006	13.4	0.45	8.00	7.78	-18.7
MW-98D	11/19/1999	14.6	0.46	7.56	0.48	-129.2
MW-98D	4/19/2000	13.2	0.55	7.24	0.61	-91
MW-98D	6/27/2001	15.7	0.51	6.91	4.02 / 0.15*	-104
MW-98D	7/1/2002	21.2	0.65	6.70	2.43	+226
MW-98D	2/5/2003	9.5	0.46	8.06	--	--
MW-98D	7/16/2004	16.9	0.50	6.72	--	--
MW-98D	5/5/2005	13.5	0.62	7.33	0.25	-142.7
MW-98D	5/10/2006	15.6	0.55	8.02	4.39	-74.6

See Notes on Page 3.

TABLE 3-3
FIELD MEASUREMENTS FOR GROUNDWATER
(1997 - 2006)

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FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	Date Collected	Temperature (degrees C)	Conductivity (mS/cm)	pH (Standard Units)	Dissolved Oxygen (Field) (mg/L)	Oxidation Reduction Potential (mV)
MW-99S	11/19/1999	16.0	0.37	7.86	--	+28.6
MW-99S	4/19/2000	10.9	0.24	8.26	4.62	+55
MW-99S	6/27/2001	19.5	0.40	7.69	7.53 / >1.0*	+110
MW-99S	5/9/2006	14.7	0.38	8.02	8.52	-33.5
MW-100D	11/17/1999	11.8	0.42	7.34	--	--
MW-101S	11/17/1999	13.8	1.24	7.04	--	--
MW-102D	11/17/1999	13.1	1.67	6.91	--	--
MW-103S	11/17/1999	13.8	1.19	6.54	--	--
MW-104S	11/17/1999	17.7	0.75	7.29	--	--
MW-105S	11/18/1999	16.8	0.84	7.16	--	--
SB-92 (DW-1)	12/30/1998	11.6	1.03	6.70	0.29	+ 9.0
SB-93 (DW-2)	12/30/1998	15.1	1.13	6.82	1.10	+ 1.1
SB-95 (DW-4)	12/30/1998	--	--	--	--	--
SB-96 (DW-5)	12/30/1998	11.1	1.03	6.88	1.90	- 3.1
SB-97 (DW-6)	12/31/1998	7.0	0.57	5.86	1.66	--
SB-98 (DW-7)	12/30/1998	13.0	0.29	6.24	6.33	+ 30
TB-1	2/12/1997	8.1	0.31	6.32	2.12	- 42
TB-1	12/31/1998	12.1	0.38	6.14	0.70	--
TB-1 (DUP)	12/31/1998	12.1	0.38	6.14	0.70	--
TB-3	2/12/1997	5.8	0.39	6.29	--	--
TB-3	12/30/1998	13.1	0.06	6.13	2.58	+ 41.1
TB-4 (RW-4)	1/5/1999	11.8	0.11	6.00	5.50	--
TB-5	2/12/1997	4.3	0.25	5.60	3.76	+ 116
TB-5	1/5/1999	10.3	0.22	5.30	9.40	--
TB-6	2/12/1997	6.4	0.35	6.10	2.32	+ 40
TB-6	12/31/1998	11.6	0.29	6.32	3.25	--
TB-7	2/12/1997	9.1	--	3.96	5.75	+ 141
TB-7	12/30/1998	12.8	0.32	6.27	2.30	+ 34

Notes:
-- = Not measured.
NA = Dissolved Oxygen meter malfunctioning.
SB-95 (DW-4) had insufficient water to collect parameter readings.
SB-94 (DW-3) had insufficient water to sample well.
*Dissolved oxygen values separated by "/" indicate a value measured using a Horiba U-22 flow through cell versus the value measured using an Accutest® colorimetric kit.

TABLE 4-1
POST-INJECTION VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR SUBSURFACE SOIL (mg/kg)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				SB-132 (B-1)[3]	SB-133 (B-2)[3]	SB-134 (B-3)[3]	SB-135 (B-4)[3]	SB-135 (B-4)[3]	SB-136 (B-5)[3]	SB-137 (B-6)[3]
Sample Date					5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006	5/11/2006
Sample Interval	S-2	S-2	S-3		(6 - 8')	(6 - 8')	(6 - 8')	(6 - 8')	(6 - 8')	(6 - 8')	(6 - 8')
Sample Type	RCs	GW-2	GW-2	UCL	FS	FS	FS	FS	DUP	FS	FS
1,1,1-Trichloroethane	600 (500)	600 (500)	600 (500)	10000 (5000)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
1,1,2,2-Tetrachloroethane	0.02 (0.2)	0.02 (0.2)	0.02 (0.2)	400 (20)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
1,1,2-Trichloroethane	2 (3)	2 (3)	2 (10)	2000 (100)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
1,1-Dichloroethane	5 (400)	5 (400)	5 (400)	10000 (5000)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
1,1-Dichloroethene	40 (0.1)	40 (0.1)	40 (0.1)	10000 (90)	ND (0.0051)	***0.32 J (0.25)***	***0.34 (0.26)***	ND (0.2)	ND (0.19)	***0.16 J (0.25)***	***0.18 J (0.26)***
1,2-Dichloroethane	0.1 (0.2)	0.1 (0.2)	0.1 (0.2)	6000 (600)	ND (0.0051)	***120 D (13)#*****	**0.15 J (0.26)#****	**0.17 J (0.2)#****	ND (0.19)	**0.12 J (0.25)#****	**0.11 J (0.26)#****
1,2-Dichloroethene, Total	0.4 (500)	--	--	--	ND (0.01)	**120 D (25)****	**150 D (64)****	**0.13 J (0.4)**	**0.079 J (0.38)**	**86 D (25)****	**87 D (26)****
1,2-Dichloropropane	0.1 (0.2)	0.1 (0.2)	0.1 (0.2)	6000 (400)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
2-Butanone	40	40	40	10000	ND (0.026)	ND (1.3)	ND (1.3)	ND (0.99)	ND (0.94)	ND (1.3)	ND (1.3)
2-Hexanone	1000	--	--	--	ND (0.026)	ND (1.3)	ND (1.3)	ND (0.99)	ND (0.94)	ND (1.3)	ND (1.3)
4-Methyl-2-pentanone	50 (70)	50 (70)	50 (70)	10000	ND (0.026)	ND (1.3)	ND (1.3)	ND (0.99)	ND (0.94)	ND (1.3)	ND (1.3)
Acetone	60	60	60	10000	ND (0.051)	ND (130)	ND (2.6)	ND (2)	ND (1.9)	ND (130)	ND (2.6)
Benzene	200 (60)	200 (60)	700 (100)	9000 (2000)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Bromodichlorometh	0.1 (20)	0.1 (20)	0.1 (90)	5000 (900)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Bromoform	1 (20)	1 (20)	1 (20)	10000 (7000)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Bromomethane	3	3	3	7000	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Carbon disulfide	1000	--	--	--	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Carbon tetrachloride	5 (4)	5 (4)	5 (4)	4000 (400)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Chlorobenzene	3 (40)	3 (80)	3 (80)	10000	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Chlorodibromom	0.03 (20)	0.03 (20)	0.03 (70)	5000 (700)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Chloroethane	1000	--	--	--	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Chloroform	10	10	10	5000	ND (0.0051)	**0.23 J (0.25)**	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Chloromethane	1000	--	--	--	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
cis-1,3-Dichloropropene	0.1	--	--	--	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Ethylbenzene	500	1000	2500	10000	ND (0.0051)	**0.08 J (0.25)**	**0.1 J (0.26)**	**29 D (0.99)**	**25 D (0.94)**	**0.23 J (0.25)**	**0.11 J (0.26)**
Methylene chlori	20 (200)	20 (200)	20 (700)	10000 (7000)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Styrene	4 (20)	4 (20)	4 (20)	10000 (1000)	ND (0.0051)	ND (0.25)	ND (0.26)	**0.32 (0.2)**	**0.19 (0.19)**	ND (0.25)	ND (0.26)
Tetrachloroethene	10 (30)	10 (30)	10 (100)	10000 (1000)	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Toluene	300 (500)	300 (500)	300 (500)	10000	ND (0.0051)	**0.1 JTB (0.25)**	**0.055 JTB (0.26)**	**0.13 JTB (0.2)**	**0.075 JTB (0.19)**	**0.13 JTB (0.25)**	**0.07 JTB (0.26)**
trans-1,3-Dichloropropene	0.1	--	--	--	ND (0.0051)	ND (0.25)	ND (0.26)	ND (0.2)	ND (0.19)	ND (0.25)	ND (0.26)
Trichloroethene	2 (20)	2 (20)	2 (20)	10000 (5000)	ND (0.0051)	**0.23 J (0.25)**	**0.21 J (0.26)**	**0.12 J (0.2)**	ND (0.19)	**2.7 (0.25)#****	***16 D (13)#*****
Vinyl chloride	0.7 (0.4)	0.7 (0.4)	0.7 (0.4)	300 (20)	ND (0.0051)	***320 DTB (13)#*****	***310 DTB (32)#*****	***0.23 JTB (0.2)***	***0.83 JTB (0.19)#*****	***120 DTB (13)#*****	***100 DTB (13)#*****
Xylenes, Total	300 (500)	300 (500)	300 (500)	10000	ND (0.01)	**0.18 J (0.5)**	**0.36 J (0.51)**	ND (0.4)	ND (0.38)	**0.14 J (0.5)**	ND (0.52)

See Notes on Page 3.

TABLE 4-1
POST-INJECTION VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR SUBSURFACE SOIL (mg/kg)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

Location ID	MADEP MCP Values[2]				SB-138 (B-7)[3]	SB-139 (B-8)[3]	SB-140 (B-9)[3]	SB-141 (B-10)[3]
Sample Date					5/11/2006	5/11/2006	5/11/2006	5/11/2006
Sample Interval	S-2	S-2	S-3		(6 - 8')	(6 - 8')	(6 - 8')	(6 - 8')
Sample Type	RCs	GW-2	GW-2	UCL	FS	FS	FS	FS
1,1,1-Trichloroethane	600 (500)	600 (500)	600 (500)	10000 (5000)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
1,1,2,2-Tetrachloroethane	0.02 (0.2)	0.02 (0.2)	0.02 (0.2)	400 (20)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
1,1,2-Trichloroethane	2 (3)	2 (3)	2 (10)	2000 (100)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
1,1-Dichloroethane	5 (400)	5 (400)	5 (400)	10000 (5000)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
1,1-Dichloroethene	40 (0.1)	40 (0.1)	40 (0.1)	10000 (90)	ND (0.0045)	***0.28 (0.21)***	***0.28 (0.27)***	ND (0.0045)
1,2-Dichloroethane	0.1 (0.2)	0.1 (0.2)	0.1 (0.2)	6000 (600)	**0.022 (0.0045)**	**0.15 J (0.21)#****	***52 D (34)#*****	**0.0032 J (0.0045)**
1,2-Dichloroethene, Total	0.4 (500)	--	--	--	ND (0.009)	**150 D (52)****	**160 D (68)****	**0.0093 (0.0091)**
1,2-Dichloropropane	0.1 (0.2)	0.1 (0.2)	0.1 (0.2)	6000 (400)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
2-Butanone	40	40	40	10000	ND (0.022)	ND (1)	ND (1.4)	ND (0.023)
2-Hexanone	1000	--	--	--	ND (0.022)	ND (1)	ND (1.4)	ND (0.023)
4-Methyl-2-pentanone	50 (70)	50 (70)	50 (70)	10000	ND (0.022)	ND (1)	ND (1.4)	ND (0.023)
Acetone	60	60	60	10000	ND (0.045)	ND (2.1)	ND (2.7)	ND (0.045)
Benzene	200 (60)	200 (60)	700 (100)	9000 (2000)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Bromodichlorometh	0.1 (20)	0.1 (20)	0.1 (90)	5000 (900)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Bromoform	1 (20)	1 (20)	1 (20)	10000 (7000)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Bromomethane	3	3	3	7000	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Carbon disulfide	1000	--	--	--	**0.0026 J (0.0045)**	ND (0.21)	ND (0.27)	ND (0.0045)
Carbon tetrachloride	5 (4)	5 (4)	5 (4)	4000 (400)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Chlorobenzene	3 (40)	3 (80)	3 (80)	10000	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Chlorodibromom	0.03 (20)	0.03 (20)	0.03 (70)	5000 (700)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Chloroethane	1000	--	--	--	**0.0031 J (0.0045)**	ND (0.21)	ND (0.27)	ND (0.0045)
Chloroform	10	10	10	5000	ND (0.0045)	ND (0.21)	**0.17 J (0.27)**	ND (0.0045)
Chloromethane	1000	--	--	--	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
cis-1,3-Dichloropropene	0.1	--	--	--	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Ethylbenzene	500	1000	2500	10000	ND (0.0045)	**6.1 (0.21)**	**0.22 J (0.27)**	ND (0.0045)
Methylene chlori	20 (200)	20 (200)	20 (700)	10000 (7000)	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Styrene	4 (20)	4 (20)	4 (20)	10000 (1000)	ND (0.0045)	**0.097 J (0.21)**	ND (0.27)	ND (0.0045)
Tetrachloroethene	10 (30)	10 (30)	10 (100)	10000 (1000)	**0.014 (0.0045)**	ND (0.21)	ND (0.27)	**0.0014 J (0.0045)**
Toluene	300 (500)	300 (500)	300 (500)	10000	ND (0.0045)	**0.32 TB (0.21)**	**0.077 JTB (0.27)**	ND (0.0045)
trans-1,3-Dichloropropene	0.1	--	--	--	ND (0.0045)	ND (0.21)	ND (0.27)	ND (0.0045)
Trichloroethene	2 (20)	2 (20)	2 (20)	10000 (5000)	ND (0.0045)	**0.26 (0.21)**	**0.28 (0.27)**	**0.021 (0.0045)**
Vinyl chloride	0.7 (0.4)	0.7 (0.4)	0.7 (0.4)	300 (20)	**0.024 TB (0.0045)**	***480 DTB (26)#*****	***550 DTB (34)#*****	**0.037 TB (0.0045)**
Xylenes, Total	300 (500)	300 (500)	300 (500)	10000	ND (0.009)	**0.13 J (0.41)**	**0.84 (0.54)**	ND (0.0091)

See Notes on Page 3.

TABLE 4-1
POST-INJECTION VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR SUBSURFACE SOIL (mg/kg)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

General Notes:
1. Results are expressed as milligrams per kilogram (mg/kg); equivalent to parts per million (ppm).
2. MADEP MCP Values from "Final Amendments to 310 CMR 40.0000" revisions effective April 3, 2006. If revised criteria differs from the previous version, the previous version is presented in parentheses.
3. Detection limits are presented in parentheses (DL).

FS - Field sample.
DUP - Duplicate sample.
-- = Not analyzed and/or no standard available.

Detected values are in bold-face type.
Detected values above USEPA R9 PRGs are show in italics.
Detected above MCP Upper Concentration Limits (UCLs) are shaded.
Detected values above MCP S-2 soil category and GW-2 groundwater category are underlined.
Detected above MCP S-3 soil category and GW-2 groundwater category.
** Detected above reportable concentrations (RCs for S-2).

Data Qualifiers:
B = The compound was detected in the sample, as well as in the associated blank.
D = Concentration is based on a diluted sample analysis.
J = The compound was detected below the method quantitation limits and is estimated.
ND = The compound was not detected; the associated number is the quantitation limit.
ND J = The compound was not detected; the associated number is the quantitation limit; the quantitation limit is estimated.
TB = Constituent detected in associated Trip Blank.

TABLE 4-2
AVERAGE VINYL CHLORIDE CONCENTRATION (ALL SOIL)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

LOCATION DESCRIPTION	LOCATION ID	SAMP_INT	DATE	SAMP_TYPE	VINYL CHLORIDE CONCENTRATION (mg/kg)	VC VALUE
Target area	C-2.5	(0 - 3')	6/25/2001	FS	0.42 U	0.21
Target area	C-2.5	(3 - 6')	6/25/2001	FS	**660 D**	660
Target area	C-2.5	(3 - 6')	6/25/2001	DUP	**870 D**	870
Target area	C-4.5	(0 - 3')	6/25/2001	FS	**0.0095 J**	0.0095
Target area	C-4.5	(3 - 6')	6/25/2001	FS	**40**	40
Target area	E-2.5	(0 - 3')	6/25/2001	FS	**0.0037 J**	0.0037
Target area	E-2.5	(3 - 7')	6/25/2001	FS	**190 D**	190
Target area	E-4.5	(0 - 3')	6/25/2001	FS	**0.013**	0.013
Target area	E-4.5	(3 - 7')	6/25/2001	FS	**70**	70
Target area	G-0.5	(0 - 3')	6/25/2001	FS	0.43 U	0.215
Target area	G-0.5	(3 - 6')	6/25/2001	FS	**1 D**	1
Target area	G-2.5	(0 - 3')	6/25/2001	FS	**0.0067 J**	0.0067
Target area	G-2.5	(3 - 6')	6/25/2001	FS	**67 D**	67
Target area	G-4.5	(0 - 3')	6/25/2001	FS	**0.0047 J**	0.0047
Target area	G-4.5	(3 - 6')	6/25/2001	FS	**140 D**	140
Target area	I-0.5	(0 - 3')	6/25/2001	FS	**0.089 J**	0.089
Target area	I-0.5	(3 - 6')	6/25/2001	FS	**0.34 J**	0.34
Target area	I-2.5	(0 - 3')	6/25/2001	FS	**0.014**	0.014
Target area	I-2.5	(3 - 6')	6/25/2001	FS	**220 D**	220
Target area	I-4.5	(0 - 3')	6/25/2001	FS	**0.0025 J**	0.0025
Target area	I-4.5	(3 - 6')	6/25/2001	FS	**200 D**	200
Target area	MW-83S	(4 - 6')	1/28/1997	FS	***490***	490
Perimeter	MW-87S	(0 - 2')	8/27/1997	FS	*0.0105 U*	0.00525
Perimeter	MW-87S	(6 - 8')	8/27/1997	FS	*0.0111 U*	0.00555
Target area	SB-72	(5.7')	4/15/1997	FS	***12***	12
Target area	SB-73	(5.55')	4/15/1997	FS	***7.9***	7.9
Target area	SB-74	(5.8')	4/15/1997	FS	***410***	410
Perimeter	SB-75	(4 - 6')	4/16/1997	FS	*0.011 U*	0.0055
Perimeter	SB-76	(4 - 6')	4/16/1997	FS	*1.4 U*	0.7
Target area	SB-77	(5.9')	4/16/1997	FS	***47***	47
Target area	SB-78	(5.6')	4/16/1997	FS	***0.15 J***	*0.15*
Perimeter	SB-79	(4 - 6')	4/16/1997	FS	*0.011 U*	0.0055
Perimeter	SB-79	(4 - 6')	4/16/1997	DUP	*0.011 U*	0.0055
Perimeter	SB-80	(4 - 6')	4/16/1997	FS	*0.011 U*	0.0055
Perimeter	SB-81	(4 - 6')	4/17/1997	FS	*0.013 U*	0.0065
Perimeter	SB-84	(0 - 2')	8/27/1997	FS	*0.0108 U*	0.0054
Perimeter	SB-84	(6 - 8')	8/27/1997	FS	*0.0111 U*	0.00555
Perimeter	SB-85	(1 - 2')	8/27/1997	FS	*0.0109 U*	0.00545
Perimeter	SB-85	(6 - 8')	8/27/1997	FS	***0.004 J***	*0.004*
Perimeter	SB-89	(1 - 3')	8/28/1997	FS	*0.0106 U*	0.0053
Perimeter	SB-89	(5 - 7')	8/28/1997	FS	*0.0109 U*	0.00545
Target area	SB-115	(5 - 6')	7/13/1999	FS	*0.28U*	0.14
Target area	SB-116	(5 - 6')	7/13/1999	FS	***260.33***	260.33
Target area	SB-117	(5 - 6')	7/13/1999	FS	*0.18U*	0.09
Target area	SB-118	(5 - 6')	7/13/1999	FS	*0.15U*	0.075
Target area	SB-119	(5 - 6')	7/13/1999	FS	***35.15***	35.15
Target area	SB-120	(5 - 6')	7/13/1999	FS	*0.14U*	0.07
Target area	SB-121	(5 - 6')	7/13/1999	FS	***21.24***	21.24
Target area	SB-121	(5 - 6')	7/13/1999	DUP	***189.2***	189.2
Target area	SB-122	(5 - 6')	7/13/1999	FS	***63.56***	63.56
Target area	SB-123	(5 - 6')	7/13/1999	FS	*0.14U*	0.07
Target area	SB-124	(5 - 6')	7/13/1999	FS	***10.27***	10.27
Target area	C4-1	(5 - 7')	6/9/2000	FS	**28**	28
Target area	C4-1(DUP)	(5 - 7')	6/9/2000	DUP	**61**	61
Target area	C4-2	(5 - 7')	6/9/2000	FS	**1.3J**	1.3
Target area	C4-4 (DL)	(5 - 7')	6/9/2000	FS	**450**	450
Target area	E2-1 (DL)	(5 - 7')	6/9/2000	FS	**420**	420
Target area	E2-2	(5 - 7')	6/9/2000	FS	**670**	670

See Notes on Page 2.

TABLE 4-2
AVERAGE VINYL CHLORIDE CONCENTRATION (ALL SOIL)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

LOCATION DESCRIPTION	LOCATION ID	SAMP_INT	DATE	SAMP_TYPE	VINYL CHLORIDE CONCENTRATION (mg/kg)	VC VALUE
Target area	E2-4	(5 - 7')	6/9/2000	FS	**68**	68
Target area	G4-1	(5 - 7')	6/9/2000	FS	**85**	85
Target area	G4-2	(5 - 7')	6/9/2000	FS	**140**	140
Target area	G4-4	(5 - 7')	6/9/2000	FS	**77**	77
Target area	SB-132 (B-1)	(6 - 8')	5/11/2006	FS	ND (0.0051)	0.00255
Target area	SB-133 (B-2)	(6 - 8')	5/11/2006	FS	***320 D***	320
Target area	SB-134 (B-3)	(6 - 8')	5/11/2006	FS	***310 D***	310
Target area	SB-135 (B-4)	(6 - 8')	5/11/2006	FS	***0.23 J***	0.23
Target area	SB-135 (B-4)	(6 - 8')	5/11/2006	DUP	***0.83 J***	0.83
Target area	SB-136 (B-5)	(6 - 8')	5/11/2006	FS	***120 D***	120
Target area	SB-137 (B-6)	(6 - 8')	5/11/2006	FS	***100 D***	100
Target area	SB-138 (B-7)	(6 - 8')	5/11/2006	FS	**0.024**	0.024
Target area	SB-139 (B-8)	(6 - 8')	5/11/2006	FS	***480 D***	480
Target area	SB-140 (B-9)	(6 - 8')	5/11/2006	FS	***550 D***	550
Target area	SB-141 (B-10)	(6 - 8')	5/11/2006	FS	**0.037**	0.037

Average Concentration	108.0595493

Notes:
SB-114 through SB-124 were within a 10 x 20 foot area next to SB-83 within the target area collected after the ChemOx pilot Study.
Vinyl chloride concentration used for average assumed the following:
- J and D qualified were used as values.
- U qualified data (not detected above detection limit) was used in calculation as 1/2 the detection limit.
- Duplicates were included

TABLE 4-3
AVERAGE VINYL CHLORIDE CONCENTRATION (SUBSURFACE SOIL)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

LOCATION DESCRIPTION	LOCATION ID	SAMP_INT	DATE	SAMP_TYPE	VINYL CHLORIDE CONCENTRATION (mg/kg)	VC VALUE
Target Area	C-2.5	(3 - 6')	6/25/2001	FS	**660 D**	660
Target Area	C-2.5	(3 - 6')	6/25/2001	DUP	**870 D**	870
Target Area	C-4.5	(3 - 6')	6/25/2001	FS	**40**	40
Target Area	E-2.5	(3 - 7')	6/25/2001	FS	**190 D**	190
Target Area	E-4.5	(3 - 7')	6/25/2001	FS	**70**	70
Target Area	G-0.5	(3 - 6')	6/25/2001	FS	**1 D**	1
Target Area	G-2.5	(3 - 6')	6/25/2001	FS	**67 D**	67
Target Area	G-4.5	(3 - 6')	6/25/2001	FS	**140 D**	140
Target Area	I-0.5	(3 - 6')	6/25/2001	FS	**0.34 J**	0.34
Target Area	I-2.5	(3 - 6')	6/25/2001	FS	**220 D**	220
Target Area	I-4.5	(3 - 6')	6/25/2001	FS	**200 D**	200
Target Area	MW-83S	(4 - 6')	1/28/1997	FS	***490***	490
Target Area	SB-72	(5.7')	4/15/1997	FS	***12***	12
Target Area	SB-73	(5.55')	4/15/1997	FS	***7.9***	7.9
Target Area	SB-74	(5.8')	4/15/1997	FS	***410***	410
Target Area	SB-77	(5.9')	4/16/1997	FS	***47***	47
Target Area	SB-78	(5.6')	4/16/1997	FS	***0.15 J***	*0.15*
Target Area	SB-115	(5 - 6')	7/13/1999	FS	*0.28U*	0.14
Target Area	SB-116	(5 - 6')	7/13/1999	FS	***260.33***	260.33
Target Area	SB-117	(5 - 6')	7/13/1999	FS	*0.18U*	0.09
Target Area	SB-118	(5 - 6')	7/13/1999	FS	*0.15U*	0.075
Target Area	SB-119	(5 - 6')	7/13/1999	FS	***35.15***	35.15
Target Area	SB-120	(5 - 6')	7/13/1999	FS	*0.14U*	0.07
Target Area	SB-121	(5 - 6')	7/13/1999	FS	***21.24***	21.24
Target Area	SB-121	(5 - 6')	7/13/1999	DUP	***189.2***	189.2
Target Area	SB-122	(5 - 6')	7/13/1999	FS	***63.56***	63.56
Target Area	SB-123	(5 - 6')	7/13/1999	FS	*0.14U*	0.07
Target Area	SB-124	(5 - 6')	7/13/1999	FS	***10.27***	10.27
Target Area	C4-1	(5 - 7')	6/9/2000	FS	**28**	28
Target Area	C4-1(DUP)	(5 - 7')	6/9/2000	DUP	**61**	61
Target Area	C4-2	(5 - 7')	6/9/2000	FS	**1.3J**	1.3
Target Area	C4-4 (DL)	(5 - 7')	6/9/2000	FS	**450**	450
Target Area	E2-1 (DL)	(5 - 7')	6/9/2000	FS	**420**	420
Target Area	E2-2	(5 - 7')	6/9/2000	FS	**670**	670
Target Area	E2-4	(5 - 7')	6/9/2000	FS	**68**	68
Target Area	G4-1	(5 - 7')	6/9/2000	FS	**85**	85
Target Area	G4-2	(5 - 7')	6/9/2000	FS	**140**	140
Target Area	G4-4	(5 - 7')	6/9/2000	FS	**77**	77
Target Area	SB-132 (B-1)	(6 - 8')	5/11/2006	FS	ND (0.0051)	0.00255
Target Area	SB-133 (B-2)	(6 - 8')	5/11/2006	FS	***320 D***	320
Target Area	SB-134 (B-3)	(6 - 8')	5/11/2006	FS	***310 D***	310
Target Area	SB-135 (B-4)	(6 - 8')	5/11/2006	FS	***0.23 J***	0.23
Target Area	SB-135 (B-4)	(6 - 8')	5/11/2006	DUP	***0.83 J***	0.83
Target Area	SB-136 (B-5)	(6 - 8')	5/11/2006	FS	***120 D***	120
Target Area	SB-137 (B-6)	(6 - 8')	5/11/2006	FS	***100 D***	100
Target Area	SB-138 (B-7)	(6 - 8')	5/11/2006	FS	0.024 (0.0045))	0.012
Target Area	SB-139 (B-8)	(6 - 8')	5/11/2006	FS	***480 D***	480
Target Area	SB-140 (B-9)	(6 - 8')	5/11/2006	FS	***550 D***	550
Target Area	SB-141 (B-10)	(6 - 8')	5/11/2006	FS	0.037 (0.0045)	0.0185

Average Concentration	160.9587357

Total number samples below UCL	35
Total number samples	45
Percent below UCL	77.78%

Notes:
Vinyl chloride concentration used for average assumed the following:
- J and D qualified were used as values.
- U qualified data (not detected above detection limit) was used in calculation as 1/2 the detection limit.
- Duplicates were included

TABLE 4-4
AVERAGE VINYL CHLORIDE CONCENTRATION (PERIMETER SOIL)

SECOND SEMI-ANNUAL 2006 ROS REPORT
FORMER VC GAS HOLDER AREA
SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

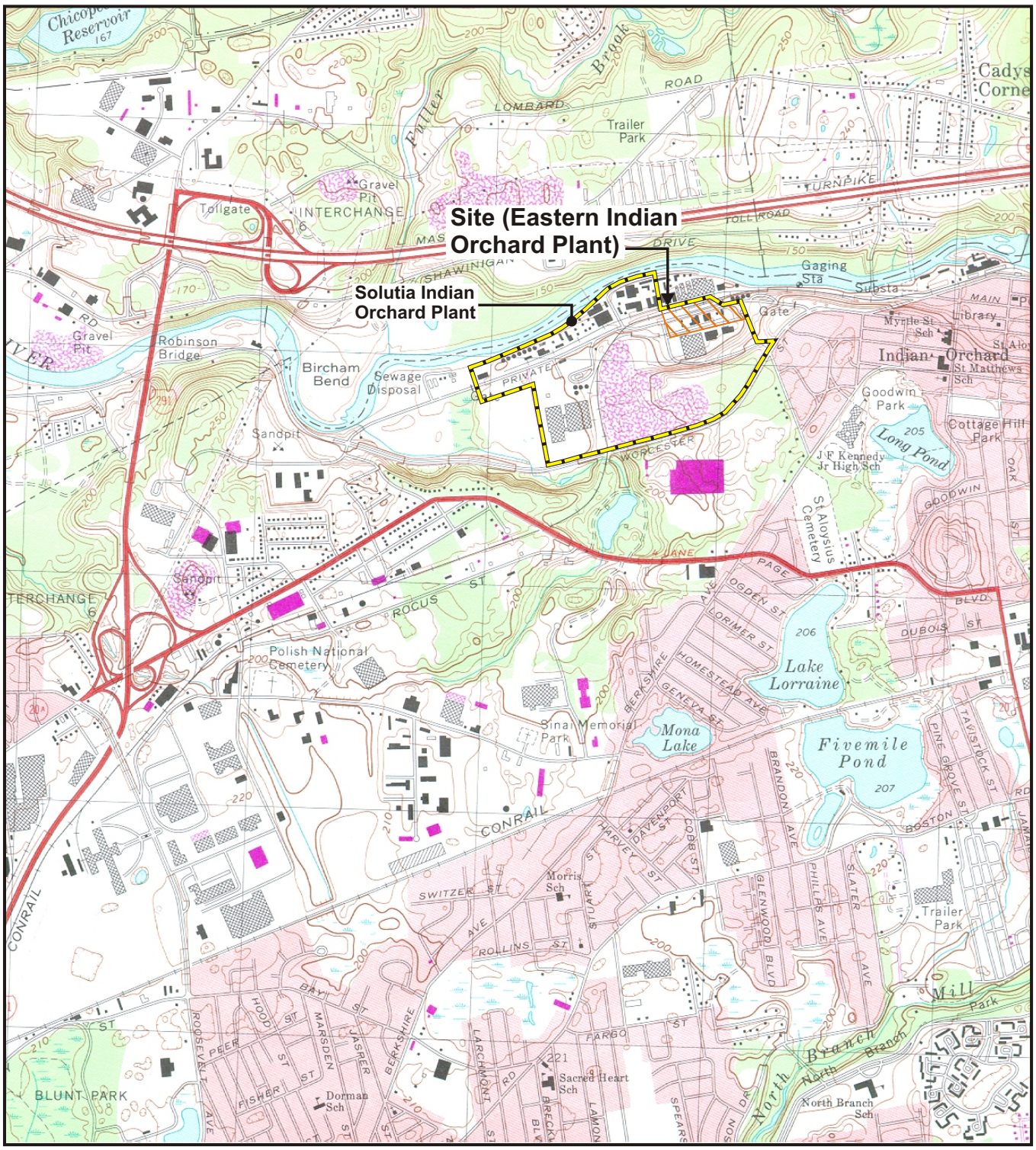
LOCATION DESCRIPTION	LOCATION ID	SAMP_INT	DATE	SAMP_TYPE	VINYL CHLORIDE CONCENTRATION (mg/kg)	VC Value
Perimeter	MW-87S	(0 - 2')	8/27/1997	FS	*0.0105 U*	0.00525
Perimeter	MW-87S	(6 - 8')	8/27/1997	FS	*0.0111 U*	0.00555
Perimeter	SB-75	(4 - 6')	4/16/1997	FS	*0.011 U*	0.0055
Perimeter	SB-76	(4 - 6')	4/16/1997	FS	*1.4 U*	0.7
Perimeter	SB-79	(4 - 6')	4/16/1997	FS	*0.011 U*	0.0055
Perimeter	SB-79	(4 - 6')	4/16/1997	DUP	*0.011 U*	0.0055
Perimeter	SB-80	(4 - 6')	4/16/1997	FS	*0.011 U*	0.0055
Perimeter	SB-81	(4 - 6')	4/17/1997	FS	*0.013 U*	0.0065
Perimeter	SB-84	(0 - 2')	8/27/1997	FS	*0.0108 U*	0.0054
Perimeter	SB-84	(6 - 8')	8/27/1997	FS	*0.0111 U*	0.00555
Perimeter	SB-85	(1 - 2')	8/27/1997	FS	*0.0109 U*	0.00545
Perimeter	SB-85	(6 - 8')	8/27/1997	FS	***0.004 J***	*0.004*
Perimeter	SB-89	(1 - 3')	8/28/1997	FS	*0.0106 U*	0.0053
Perimeter	SB-89	(5 - 7')	8/28/1997	FS	*0.0109 U*	0.00545

Average Concentration	0.055032143

Notes:
Vinyl chloride concentration used for average assumed the following:
- J and D qualified were used as values.
- U qualified data (not detected above detection limit) was used in calculation as 1/2 the detection limit.
- Duplicates were included

FIGURES

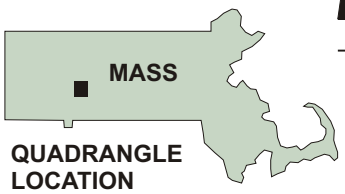
BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company



REFERENCE: Base Map USGS 7.5 Min. Series Quads., Springfield North, Massachusetts, Photorevised 1979.

2000' 0 2000'

APPROXIMATE SCALE: 1" = 2000'



QUADRANGLE LOCATION

SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

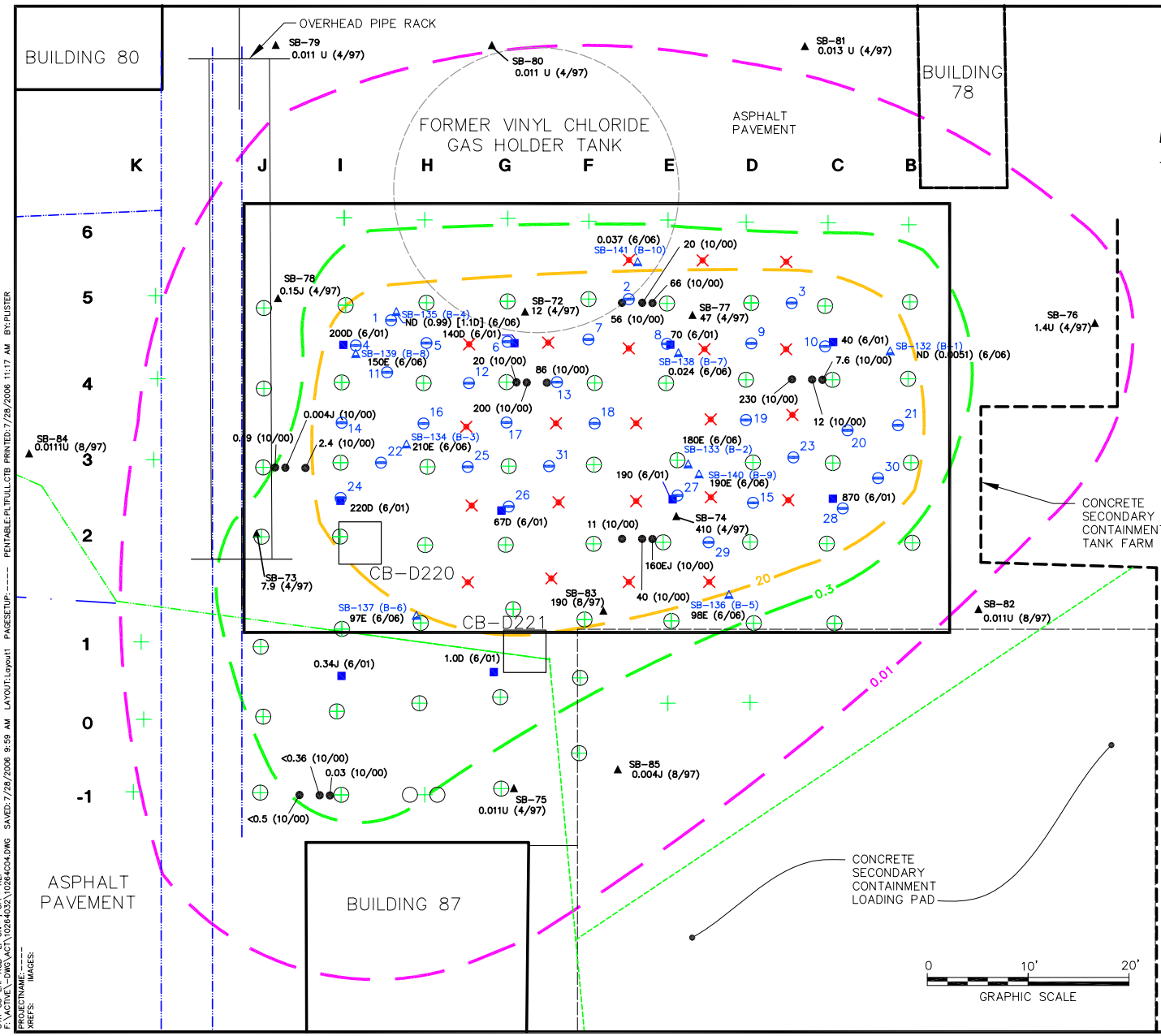
SECOND SEMI-ANNUAL 2006 RTN 1-1901
PHASE V INSPECTION AND MONITORING REPORT

SITE LOCATION PLAN

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
1-1

07/17/06 SYR-D85-DJH-KLS
10264032/10264n01.cdr



LEGEND:

- POST INJECTION CONFIRMATION SOIL SAMPLES (2006)
- POST FULL SCALE CONFIRMATION SOIL BORING LOCATION (2001)
- POST FULL SCALE CONFIRMATION SOIL BORING (2000)
- SB-76 ▲ DELINIATION SOIL BORING (17) (1997)
- DELINEATION SOIL BORING (74) (2000)
- PHASE I CHEMOX INJECTION POINT (55) (2000) SEALED 11/04
- PHASE II CHEMOX INJECTION POINT (25) (2001) SEALED 11/04
- ISCO INJECTION POINT (30) (11/04) SEALED 11/04
- UTILITY MANHOLE
- UNDERGROUND WATER LINE
- UNDERGROUND SEWER OR DRAIN
- RANDOM SOIL SAMPLE LOCATION BOUNDARY
- 40 (6/01) VINYL CHLORIDE CONCENTRATION IN SUBSURFACE SOIL WITHIN 4 TO 7 FOOT ZONE BELOW GRADE (6/01) MONTH/YEAR OF SAMPLE COLLECTION.
- [1.1D] DUPLICATE SAMPLE
- 0.01 U VC SOIL EXTENT
- 0.3 VC SOIL EXTENT
- 20 VC SOIL EXTENT

NOTES:

1. BASE MAP PREPARED FROM "BUILDING DESIGNATION PLAN" SUPPLIED BY SOLUTIA INC. 1993, AT A SCALE OF 1"=200'.
2. INJECTION WELLS WERE INSTALLED APPROX. 8' O.C. WELLS CONSTRUCTED OF 1" SCH. 40 PVC RISER AND 10-SLOT SCREEN.
3. THE LOCATION OF BORINGS AND WELLS, ARE SURVEYED BY BBL, BASED ON GRID COORDINATES SUPPLIED BY SOLUTIA INC. EXCEPT FOR FOUNDATION.
4. ELEVATIONS OF WELLS AND SOIL BORINGS ARE BASED ON SOLUTIA/NOVA CHEMICALS PLANT DATUM (SPD) WHICH IS 0.45' HIGHER THAN USGS NATIONAL GEODETIC VERTICAL DATUM OF 1929.
5. RESULTS ARE IN MILLIGRAMS PER KILOGRAM UNITS (MG/KG).
6. DRAWING MODIFIED FROM XPERT DESIGN AND DIAGNOSTICS, LLC DRAWING ENTITLED "POST PHASE I CHEM-OX INJECTION CONFIRMATORY SOIL SAMPLING" DATED 11/29/00.

SOLUTIA INC.,
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS
SECOND SEMI-ANNUAL 2006
PHASE V INSPECTION AND MONITORING REPORT RTN 1-11901

PHASE I, II, AND III INJECTION LOCATIONS

BBL an ARCADIS company

FIGURE **1-2**

SYR-85-LAF RCB L: ON=*, OFF=*REF*
F:\ACTIVE\-DWG\ACT\10284032\10284C04.DWG SAVED: 7/28/2006 9:59 AM LAYOUT:Layout1 PAGESETUP:---- PENTABLE:PLTFULL.CTB PRINTED: 7/28/2006 11:17 AM BY:PLISTER
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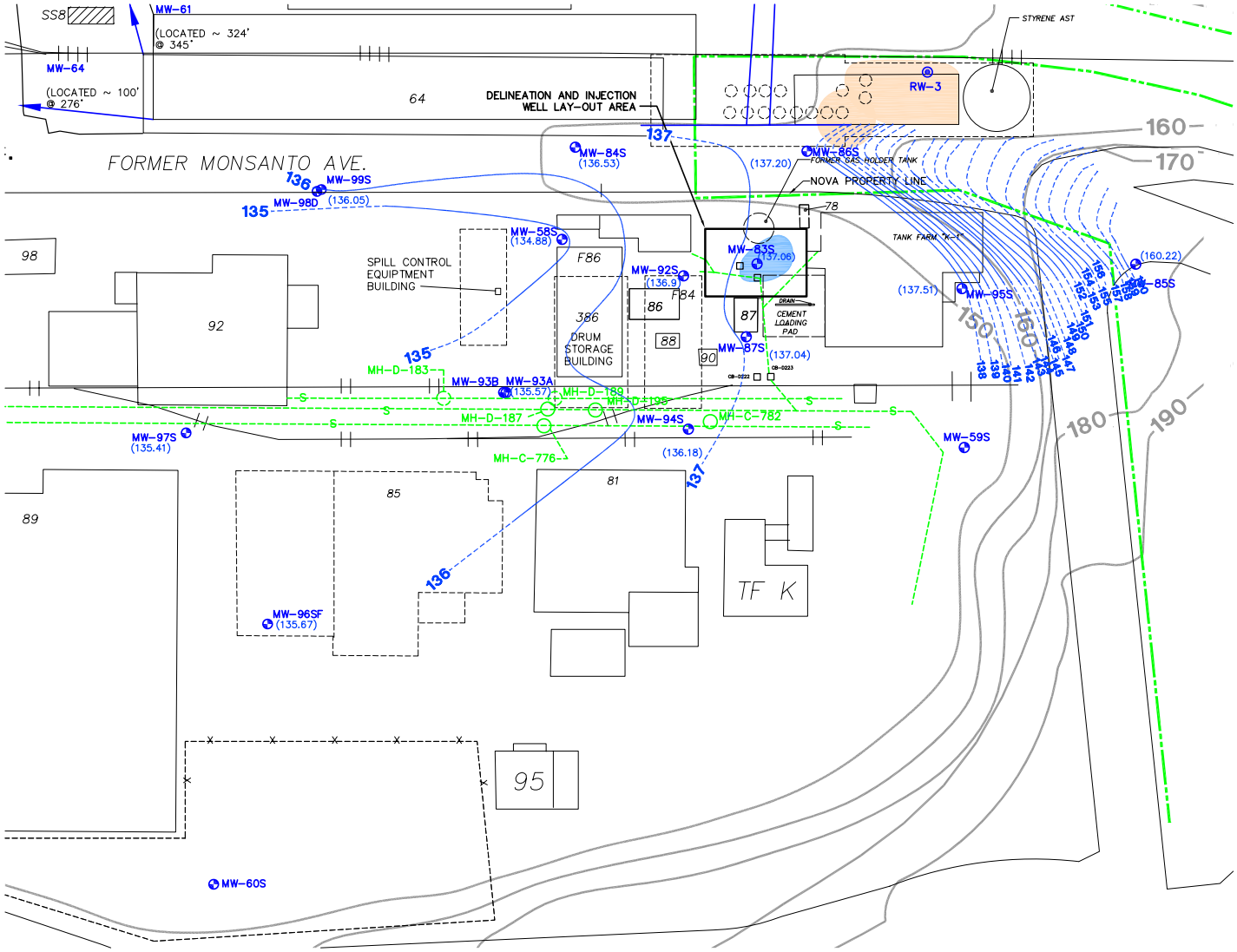


LEGEND

- MONITORING WELL
- RECOVERY WELL
- 136 — GROUND-WATER ELEVATION CONTOUR (FT, ASPD) DASHED WHERE INFERRED
- (137.5) WATER TABLE ELEVATION (IN FEET)
- 140 — TOPOGRAPHIC ELEVATION CONTOUR (FT, ASPD)
- w — UNDERGROUND WATER LINE
- s — UNDERGROUND SEWER
- FORMER BUILDING
- VINYL CHLORIDE SOURCE AREA (RTN-1-11901)
- ETHYLBENZENE/STYRENE SOURCE AREA (RTN 1-11694)

NOTES:

1. BASE MAP PREPARED FROM "BUILDING DESIGNATION PLAN" SUPPLIED BY SOLUTIA INC., 1993, AT A SCALE OF 1" = 200'.
2. THE LOCATION OF BORINGS AND WELLS, ARE SURVEYED BY BBL, BASED ON GRID COORDINATES SUPPLIED BY SOLUTIA INC., EXCEPT FOR FOUNDATION BORINGS (SEE NOTE 5).
3. BUILDINGS, ROADS, AND HYDROGRAPHY SHOULD BE CONSIDERED APPROXIMATE ONLY. FEATURE LOCATIONS ADJUSTED PER SOLUTIA INC. CONSENT ON 11/16/94. FORMER BUILDINGS BASED ON SANBORN MAPS AND SOLUTIA INC. PLANT MAPS PROVIDED 5/8/96. APPROXIMATE UNDERGROUND UTILITY LOCATIONS ADDED 5/98 BASED ON PLANT UTILITY DRAWINGS.
4. ELEVATIONS OF WELLS AND SOIL BORINGS ARE BASED ON SOLUTIA PLANT DATUM (SPD) WHICH IS 0.45' HIGHER THAN USGS NATIONAL GEODETIC VERTICAL DATUM OF 1929.
5. ADDITIONAL BORING LOCATIONS WERE DRILLED FOR GENERAL PLANT (B-72) FROM 1970 THROUGH 1982. SB-57 THROUGH SB-61 WERE DRILLED IN DECEMBER 1994 TO EVALUATE SOILS AND GROUND WATER ASSOCIATED WITH A SEWER. NONE OF THESE BORINGS WERE SURVEYED TO THE PLANT GRID SYSTEM, HOWEVER THEY WERE TIED TO EXISTING UTILITY MANHOLES.
6. SOIL BORING LOCATIONS B-96-08 THROUGH B-96-19 WERE INSTALLED IN OCTOBER 1996 AND ARE APPROXIMATE.
7. THE BANK OF THE RIVER HAS NOT BEEN SURVEYED. RIVER BANK AND RIVER WERE ADJUSTED 15' NORTH TO ACCOMMODATE SURVEYED LOCATIONS.
8. SURVEY OF TEMPORARY WELLS DW-1 THROUGH DW-7 WAS PERFORMED BY HILL ENGINEERS. SURVEY OF MONITORING WELLS TB-1 THROUGH TB-7, MW-61S THROUGH MW-95S, AND SB-71 THROUGH SB-108 WERE SURVEYED BY BBL.
9. SURFACE SOIL SAMPLE LOCATIONS ARE APPROXIMATE.
10. SOIL BORINGS (B-96-1 THROUGH B-96-7) ARE APPROXIMATE AND LOCATED BASED ON SITE FEATURES, (EXISTING STYRENE TANK), NOT WELLS (T&B, 1996).

0 100' 200'

GRAPHIC SCALE

SOLUTIA INC.
INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS

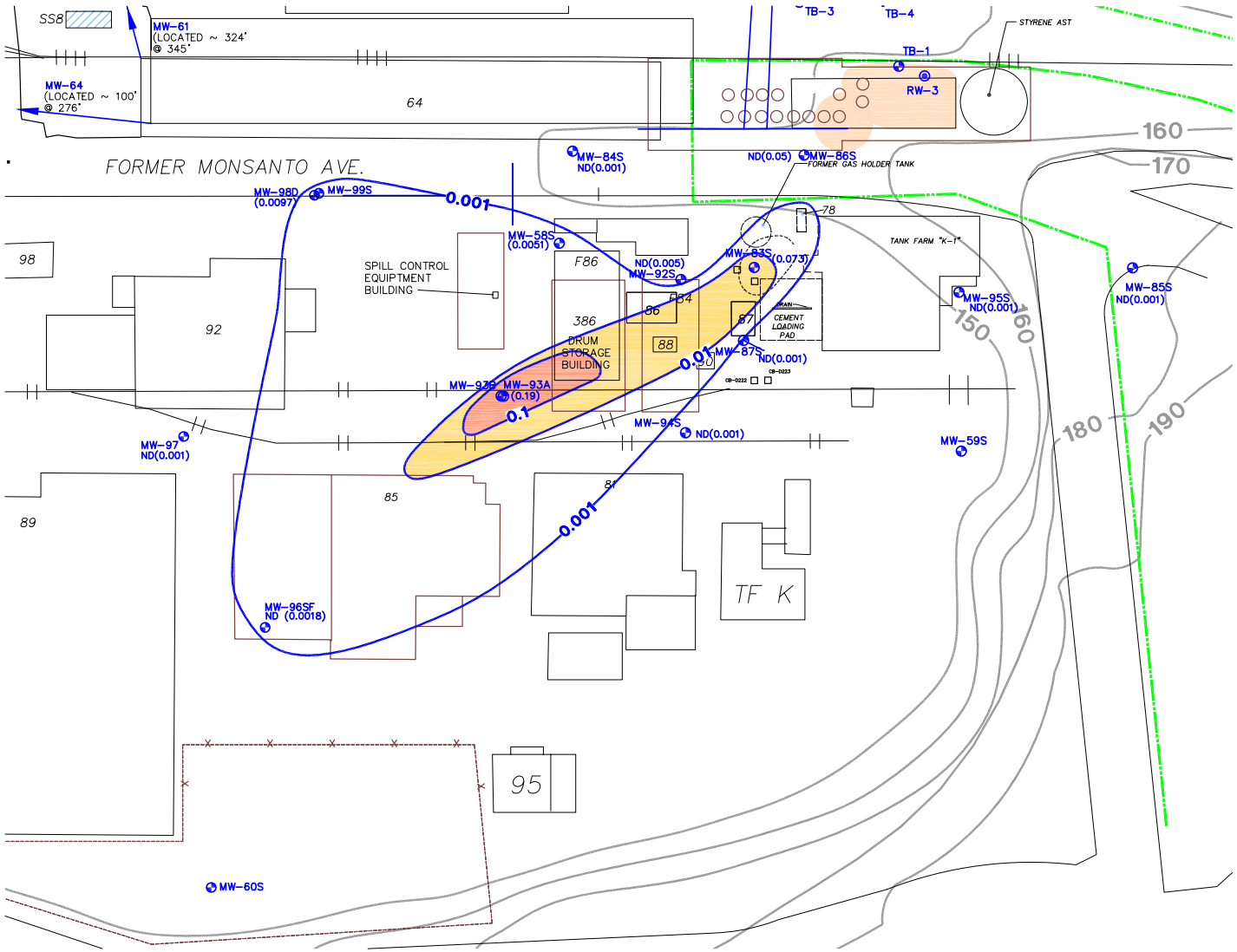
SECOND SEMI-ANNUAL 2006
STATUS REPORT RTN 1-11901

WATER TABLE ELEVATION CONTOUR MAP MAY 9-10, 2006

BBL an ARCADIS company

FIGURE **3-1**

SYR-85-RCB L: ON=*; OFF=REF*
F:\ACTIVE\-DWG\ACT\10284032\10284WOLDWG SAVED: 7/26/2006 10:07 AM LAYOUT:Layout1 PAGESETUP:---- PENTABLE:PLTFULL.CTB PRINTED: 7/26/2006 11:18 AM BY:PLUSTER
PROJECTNAME: ----
XREFS:
IMAGES:
10256X16 Temp01499.Tif



LEGEND:

- MONITORING WELL
- NOVA PROPERTY BOUNDRY
- 140 — TOPOGRAPHIC ELEVATION CONTOUR (FT, ASPD)
- (1.8) — VINYL CHLORIDE CONCENTRATION (mg/L)
- ND (0.01) — NOT DETECTED (DETECTION LIMITS)
- FORMER BUILDING
- VINYL CHLORIDE SOURCE AREA (RTN 1-11901)
- ETHYLBENZENE/STYRENE SOURCE AREA (RTN 1-11694)
- 0.01 — VINYL CHLORIDE GROUNDWATER ISOCONCENTRATION LINE (mg/L)

NOTES:

1. BASE MAP PREPARED FROM "BUILDING DESIGNATION PLAN" SUPPLIED BY SOLUTIA INC., 1993, AT A SCALE OF 1" = 200'.
2. THE LOCATION OF BORINGS AND WELLS, ARE SURVEYED BY BBL, BASED ON GRID COORDINATES SUPPLIED BY SOLUTIA INC., EXCEPT FOR FOUNDATION BORINGS (SEE NOTE 5).
3. BUILDINGS, ROADS, AND HYDROGRAPHY SHOULD BE CONSIDERED APPROXIMATE ONLY. FEATURE LOCATIONS ADJUSTED PER SOLUTIA INC. CONSENT ON 11/16/94. FORMER BUILDINGS BASED ON SANBORN MAPS AND SOLUTIA INC. PLANT MAPS PROVIDED 8/8/96. APPROXIMATE UNDERGROUND UTILITY LOCATIONS ADDED 8/98 BASED ON PLANT UTILITY DRAWINGS.
4. ELEVATIONS OF WELLS AND SOIL BORINGS ARE BASED ON SOLUTIA PLANT DATUM (SPD) WHICH IS 0.45' HIGHER THAN USGS NATIONAL GEODETIC VERTICAL DATUM OF 1929.
5. ADDITIONAL BORING LOCATIONS WERE DRILLED FOR GENERAL PLANT (B-72) FROM 1970 THROUGH 1982. SB-57 THROUGH SB-61 WERE DRILLED IN DECEMBER 1994 TO EVALUATE SOILS AND GROUND WATER ASSOCIATED WITH A SEWER.
NONE OF THESE BORINGS WERE SURVEYED TO THE PLANT GRID SYSTEM, HOWEVER THEY WERE TIED TO EXISTING UTILITY MANHOLES.
6. SOIL BORING LOCATIONS B-96-08 THROUGH B-96-19 WERE INSTALLED IN OCTOBER 1996 AND ARE APPROXIMATE.
7. THE BANK OF THE RIVER HAS NOT BEEN SURVEYED. RIVER BANK AND RIVER WERE ADJUSTED 15' NORTH TO ACCOMMODATE SURVEYED LOCATIONS.
8. SURVEY OF TEMPORARY WELLS DW-1 THROUGH DW-7 WAS PERFORMED BY HILL ENGINEERS. SURVEY OF MONITORING WELLS TB-1 THROUGH TB-7, MW-61S THROUGH MW-95S, AND SB-71 THROUGH SB-106 WERE SURVEYED BY BBL.
9. SURFACE SOIL SAMPLE LOCATIONS ARE APPROXIMATE.
10. SOIL BORINGS (B-96-1 THROUGH B-96-7) ARE APPROXIMATE AND LOCATED BASED ON SITE FEATURES, (EXISTING STYRENE TANK), NOT WELLS (T&B, 1996).

0 100' 200'

GRAPHIC SCALE

SOLUTIA INC.
EASTERN INDIAN ORCHARD PLANT
SPRINGFIELD, MASSACHUSETTS
SECOND SEMI-ANNUAL 2006
PHASE V INSPECTION AND MONITORING REPORT RTN 1-11901

VINYL CHLORIDE GROUNDWATER ISOCONCENTRATION CONTOUR MAP MAY 2006

BBL an ARCADIS company

FIGURE 3-3

7/17/06 SYR-85-RCA WJJ RCB L: ON=*; OFF=REF*
F:\ACTIVE\-DWG\ACT\10284032\10284033.DWG SAVED:7/28/2006 10:13 AM LAYOUT:Layout1 PAGESETUP:---- PENTABLE:PLTFULL.CTB PRINTED:7/28/2006 11:16 AM BY:PLUSTER
PROJECTNAME: ----
XREFS: IMAGES:
10284X16

APPENDICES

BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

Appendix A

Bureau of Waste Site Cleanup Form 108

BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number
1 - 11901

A. SITE LOCATION:

1. Site Name: ~~MONSANTO~~ / FMR GAS HOLDER AREA Solutia
2. Street Address: 730 WORCESTER ST
3. City/Town: SPRINGFIELD 4. ZIP Code: 01151-0000
5. UTM Coordinates: a. UTM N: 4669635 b. UTM E: 704978

☑ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☑ d. Tier II

7. If applicable, provide the Permit Number:

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.

☐ 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

☐ 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.

☐ 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.

☐ 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.

☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number
1 - 11901

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☑ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☐ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☐ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase V ☐ ii. Remedy Operation Status ☐ iii. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

☑ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).

☑ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☑ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number
1 - 11901

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a **Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement** is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a **Phase II Scope of Work** or a **Phase IV Remedy Implementation Plan** is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an **As-Built Construction Report, a Remedy Operation Status**, a **Phase IV, Phase V or Post-Class C RAO Status Report,** a **Status Report to Maintain a Remedy Operation Status** and/or a **Remedial Monitoring Report** is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 6889

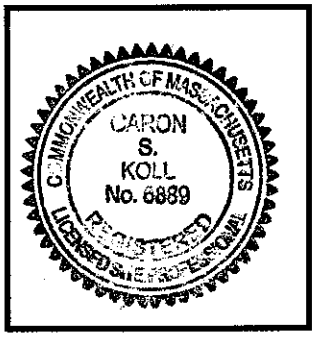
2. First Name: CARON S 3. Last Name: KOLL

4. Telephone: (315) 446-2570 5. Ext.: 6. FAX:

7. Signature:

8. Date: (mm/dd/yyyy)

9. LSP Stamp:



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number
1 - 11901

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☑ c. change in the person undertaking response actions

2. Name of Organization: SOLUTIA INC.

3. Contact First Name: DIRK 4. Last Name: DUQUET

5. Street: 730 WORCESTER STREET 6. Title: PLANT MANAGER

7. City/Town: SPRINGFIELD 8. State: MA 9. ZIP Code: 01151-1089

10. Telephone: (413) 730-3000 11. Ext.: 12. FAX:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

☑ 1. RP or PRP ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☑ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.

☑ 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.

☑ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.

☐ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number
1 - 11901

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, DIRK DUQUET, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ Signature

3. Title: PLANT MANAGER

4. For: SOLUTIA INC.
(Name of person or entity recorded in Section D)

5. Date: 8/14/2006
(mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. FAX:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Appendix B

Groundwater and Soil Laboratory Analytical Data

BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

ANALYTICAL REPORTF

Job Number: 680-16530-1d

SDG Number: SIO39d

Job Description: Solutia-Indian Orchard

For:d
Blasland, Bouck & Lee, Inc. (BBL)d
6723 Towpath Road, Box 66d
Syracuse, NY 13214d

Attention: Ms. Caron Kolld

Lidya Guliziad
Project Manager Id
lgulizia@stl-inc.comd

06/09/2006d

cc:d Mr. Roy Hartd

Project Manager: Lidya Guliziad

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any d exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, d without the written approval of the laboratory. All questions regarding this test report should be directed to the STL Project Manager d who signed this test report.d

METHOD SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Description	Lab Location	Method	Preparation Method
Matrix:F WaterF			
Volatile Organic Compounds by GC/MS-	STL-SAV-	SW846 8260B-	
Purge-and-Trap-	STL-SAV-		SW846 5030B-

LAB RE ERENCES:F

STL-SAV = STL-Savannah-

METHOD RE ERENCES:F

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 a
And Its Updates.a

METHOD / ANALYST SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Method	Analyst	Analyst ID
SW846 8260B-	Agresta, Maria-	MA-
SW846 8260B-	Vandergriff, Jerry-	JV

SAMPLE SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-16530-1-	MW-92 S-	Water-	05/09/2006 1120-	05/11/2006 0922-
680-16530-2-	MW-84 S-	Water-	05/09/2006 1245-	05/11/2006 0922-
680-16530-3-	MW-99 S-	Water-	05/09/2006 1345-	05/11/2006 0922-
680-16530-4-	MW-93 B-	Water-	05/09/2006 1425-	05/11/2006 0922-
680-16530-5-	MW-97 S-	Water-	05/09/2006 1445-	05/11/2006 0922-
680-16530-6-	MW-58 S-	Water-	05/09/2006 1540-	05/11/2006 0922-
680-16530-6MSMS-	MW-58 S MS-	Water-	05/09/2006 1540-	05/11/2006 0922-
680-16530-6MSDMS-	MW-58 S MSD-	Water-	05/09/2006 1540-	05/11/2006 0922-
680-16530-7	MW-95 S-	Water-	05/09/2006 1551-	05/11/2006 0922-
680-16530-8-	MW-DUP-1-	Water-	05/09/2006 0000-	05/11/2006 0922-
680-16530-9-	MW-93 B-	Water-	05/10/2006 0900-	05/11/2006 0922-
680-16530-10-	MW-94 S-	Water-	05/10/2006 0935-	05/11/2006 0922-
680-16530-11-	MW-86 S-	Water-	05/10/2006 1145-	05/11/2006 0922-
680-16530-12-	MW- 85 S-	Water-	05/10/2006 1155-	05/11/2006 0922-
680-16530-13-	MW-96 SF-	Water-	05/10/2006 1410-	05/11/2006 0922-
680-16530-14-	MW-87 S-	Water-	05/10/2006 1518-	05/11/2006 0922-
680-16530-15-	MW-98 D-	Water-	05/10/2006 1540-	05/11/2006 0922-
680-16530-16-	MW-83 S-	Water-	05/10/2006 1620-	05/11/2006 0922-
680-16530-17	TRIP BLANK-	Water-	05/10/2006 0000-	05/11/2006 0922-

SAMPLE RESULTST

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-92 SF

Lab Sample ID:- 680-16530-1-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1120-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 5.0-
Date Analyzed:- 05/22/2006 1827-
Date Prepared:- 05/22/2006 1827-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0105.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	5.0-	U-	4.7-	5.0-
Chloromethane-	5.0-	U-	2.7-	5.0-
Vinyl chloride-	5.0-	U-	4.6-	5.0-
Chloroethane-	5.0-	U-	4.5-	5.0-
Methylene Chloride-	25-	U-	2.2	25-
Acetone-	130-	U-	37-	130-
Carbon disulfide-	10-	U-	3.8-	10-
1,1-Dichloroethene-	5.0-	U-	4.7-	5.0-
1,1-Dichloroethane-	5.0-	U-	2.8-	5.0-
1,2-Dichloroethene, cis-, trans-	10-	U-	6.0-	10-
Chloroform-	5.0-	U-	2.6-	5.0-
1,2-Dichloroethane-	5.0-	U-	1.4-	5.0-
2 Butanone (MEK)	50-	U-	3.6-	50-
1,1,1-Trichloroethane-	5.0-	U-	4.0-	5.0-
Carbon tetrachloride-	5.0-	U-	4.6-	5.0-
Bromodichloromethane-	5.0-	U-	2.1-	5.0-
1,1,2,2-Tetrachloroethane-	5.0-	U-	1.1-	5.0-
1,2-Dichloropropane-	5.0-	U-	1.3-	5.0-
trans-1,3-Dichloropropene-	5.0-	U-	1.8-	5.0-
Trichloroethene-	5.0-	U-	3.6-	5.0-
Dibromochloromethane-	5.0-	U-	2.0-	5.0-
1,1,2-Trichloroethane-	5.0-	U-	1.9-	5.0-
Benzene-	5.0-	U-	2.7-	5.0-
cis-1,3-Dichloropropene-	5.0-	U-	2.1-	5.0-
Bromoform-	5.0-	U-	1.8-	5.0-
2 Hexanone	50-	U-	2.0-	50-
4-Methyl-2-pentanone (MIBK)-	50-	U-	2.3-	50-
Tetrachloroethene-	5.0-	U-	3.8-	5.0-
Toluene-	5.0-	U-	3.1-	5.0-
Chlorobenzene-	5.0-	U-	2.1-	5.0-
Ethylbenzene-	2300-	E-	3.1-	5.0-
Styrene-	5.0-	U-	2.1-	5.0-
Xylenes, Total-	10-	U-	6.5-	10-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	92	79 - 122
4-Bromofluorobenzene-	89-	77 - 120-
Dibromofluoromethane-	97-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-92 SF

Lab Sample ID:- 680-16530-1-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1120-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 25-
Date Analyzed:- 05/23/2006 0947-
Date Prepared:- 05/23/2006 0947-

Analysis Batch: 680-45329-
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0159.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	25-	U-	23-	25-
Chloromethane-	25-	U-	13-	25-
Vinyl chloride-	25-	U-	23-	25-
Chloroethane-	25-	U-	22	25-
Methylene Chloride-	130-	U-	11-	130-
Acetone-	630-	U-	180-	630-
Carbon disulfide-	50-	U-	19-	50-
1,1-Dichloroethene-	25-	U-	23-	25-
1,1-Dichloroethane-	25-	U-	14-	25-
1,2-Dichloroethene, cis-, trans-	50-	U-	30-	50-
Chloroform-	25-	U-	13-	25-
1,2-Dichloroethane-	25-	U-	7.0-	25-
2 Butanone (MEK)	250-	U-	18-	250-
1,1,1-Trichloroethane-	25-	U-	20-	25-
Carbon tetrachloride-	25-	U-	23-	25-
Bromodichloromethane-	25-	U-	11-	25-
1,1,2,2-Tetrachloroethane-	25-	U-	5.3-	25-
1,2-Dichloropropane-	25-	U-	6.5-	25-
trans-1,3-Dichloropropene-	25-	U-	9.0-	25-
Trichloroethene-	25-	U-	18-	25-
Dibromochloromethane-	25-	U-	10-	25-
1,1,2-Trichloroethane-	25-	U-	9.3-	25-
Benzene-	25-	U-	14-	25-
cis-1,3-Dichloropropene-	25-	U-	10-	25-
Bromoform-	25-	U-	9.0-	25-
2 Hexanone	250-	U-	9.8-	250-
4-Methyl-2-pentanone (MIBK)-	250-	U-	11-	250-
Tetrachloroethene-	25-	U-	19-	25-
Toluene-	25-	U-	16-	25-
Chlorobenzene-	25-	U-	10-	25-
Ethylbenzene-	2100-	D-	16-	25-
Styrene-	25-	U-	11-	25-
Xylenes, Total-	50-	U-	33-	50-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	96-	79 - 122
4-Bromofluorobenzene-	92	77 - 120-
Dibromofluoromethane-	92	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-84 SF

Lab Sample ID:- 680-16530-2
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1245-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 1855-
Date Prepared:- 05/22/2006 1855-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0107.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	95-	79 - 122
4-Bromofluorobenzene-	88-	77 - 120-
Dibromofluoromethane-	94-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-99 SF

Lab Sample ID:- 680-16530-3-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1345-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 1923-
Date Prepared:- 05/22/2006 1923-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0109.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	94-	79 - 122
4-Bromofluorobenzene-	90-	77 - 120-
Dibromofluoromethane-	92	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **MW-93 Bu**

Lab Sample ID:- 680-16530-4-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1425-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 1951-
Date Prepared:- 05/22/2006 1951-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0111.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	96-	79 - 122
4-Bromofluorobenzene-	86-	77 - 120-
Dibromofluoromethane-	90-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **MW-97 SF**

Lab Sample ID:- 680-16530-5-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1445-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 2019-
Date Prepared:- 05/22/2006 2019-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0113.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	94-	79 - 122
4-Bromofluorobenzene-	88-	77 - 120-
Dibromofluoromethane-	90-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-58 SF

Lab Sample ID:- 680-16530-6-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1540-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 2047-
Date Prepared:- 05/22/2006 2047-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0115.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	5.1-		0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	94-	79 - 122
4-Bromofluorobenzene-	90-	77 - 120-
Dibromofluoromethane-	90-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-95 SF

Lab Sample ID:- 680-16530-7-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 1551-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 2211-
Date Prepared:- 05/22/2006 2211-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0121.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	93	79 - 122
4-Bromofluorobenzene-	86-	77 - 120-
Dibromofluoromethane-	91-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **MW-DUP-1F**

Lab Sample ID:- 680-16530-8-
Client Matrix:- Water-

Date Sampled:- 05/09/2006 0000-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/22/2006 2238-
Date Prepared:- 05/22/2006 2238-

Analysis Batch: 680-45297-

Instrument ID:- GC/MS Volatiles - P-
Lab File ID:- p0123.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	95-	79 - 122
4-Bromofluorobenzene-	87-	77 - 120-
Dibromofluoromethane-	90-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **MW-93 Bu**

Lab Sample ID:- 680-16530-9-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 0900-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 0902
Date Prepared:- 05/23/2006 0902

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0467.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	190-		0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	2.4-		0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.1-		0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	105-	79 - 122
4-Bromofluorobenzene-	96-	77 - 120-
Dibromofluoromethane-	107-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-94 SF

Lab Sample ID:- 680-16530-10-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 0935-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 0923-
Date Prepared:- 05/23/2006 0923-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0468.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	11-	J-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2-Butanone (MEK)-	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	0.90-	J-	0.62	1.0-
Chlorobenzene-	1.3		0.41-	1.0
Ethylbenzene-	50-		0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	3.1-		1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122
4-Bromofluorobenzene-	96-	77 - 120-
Dibromofluoromethane-	105-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-86 SF

Lab Sample ID:- 680-16530-11-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1145-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 50-
Date Analyzed:- 05/23/2006 1459-
Date Prepared:- 05/23/2006 1459-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0484.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	50-	U-	47-	50-
Chloromethane-	50-	U-	27-	50-
Vinyl chloride-	50-	U-	46-	50-
Chloroethane-	50-	U-	45-	50-
Methylene Chloride-	250-	U-	22	250-
Acetone-	1300-	U-	370-	1300-
Carbon disulfide-	100-	U-	38-	100-
1,1-Dichloroethene-	50-	U-	47-	50-
1,1-Dichloroethane-	50-	U-	28-	50-
1,2-Dichloroethene, cis-, trans-	100-	U-	60-	100-
Chloroform-	50-	U-	26-	50-
1,2-Dichloroethane-	50-	U-	14-	50-
2 Butanone (MEK)	500-	U-	36-	500-
1,1,1-Trichloroethane-	50-	U-	40-	50-
Carbon tetrachloride-	50-	U-	46-	50-
Bromodichloromethane-	50-	U-	21-	50-
1,1,2,2-Tetrachloroethane-	50-	U-	11-	50-
1,2-Dichloropropane-	50-	U-	13-	50-
trans-1,3-Dichloropropene-	50-	U-	18-	50-
Trichloroethene-	50-	U-	36-	50-
Dibromochloromethane-	50-	U-	20-	50-
1,1,2-Trichloroethane-	50-	U-	19-	50-
Benzene-	50-	U-	27-	50-
cis-1,3-Dichloropropene-	50-	U-	21-	50-
Bromoform-	50-	U-	18-	50-
2 Hexanone	500-	U-	20-	500-
4-Methyl-2-pentanone (MIBK)-	500-	U-	23-	500-
Tetrachloroethene-	50-	U-	38-	50-
Toluene-	50-	U-	31-	50-
Chlorobenzene-	54-		21-	50-
Ethylbenzene-	6100-		31-	50-
Styrene-	1800-		21-	50-
Xylenes, Total-	100-	U-	65-	100-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	103	79 - 122
4-Bromofluorobenzene-	95-	77 - 120-
Dibromofluoromethane-	104-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **MW- 85 SF**

Lab Sample ID:- 680-16530-12
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1155-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 1108-
Date Prepared:- 05/23/2006 1108-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0473.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122
4-Bromofluorobenzene-	96-	77 - 120-
Dibromofluoromethane-	106-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-96 SFF

Lab Sample ID:- 680-16530-13-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1410-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 1156-
Date Prepared:- 05/23/2006 1156-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0475.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.8-		0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	4.0-		0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	6.5-		1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.3		0.71-	1.0
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	3.0-	J-	0.45-	10-
Tetrachloroethene-	4.0-		0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122
4-Bromofluorobenzene-	96-	77 - 120-
Dibromofluoromethane-	104-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-87 SF

Lab Sample ID:- 680-16530-14-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1518-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 1217-
Date Prepared:- 05/23/2006 1217-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0476.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	0.54-	J-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	29-		0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122
4-Bromofluorobenzene-	96-	77 - 120-
Dibromofluoromethane-	105-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **MW-98 Du**

Lab Sample ID:- 680-16530-15-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1540-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 1048-
Date Prepared:- 05/23/2006 1048-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0472.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	9.7-		0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122
4-Bromofluorobenzene-	95-	77 - 120-
Dibromofluoromethane-	105-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-83 SF

Lab Sample ID:- 680-16530-16-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1620-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 1237-
Date Prepared:- 05/23/2006 1237-

Analysis Batch: 680-45335-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0477.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	73		0.92	1.0
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	3.2		1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	10-		0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.1-		0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	490-	E-	0.62	1.0-
Styrene-	0.82	J-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122
4-Bromofluorobenzene-	96-	77 - 120-
Dibromofluoromethane-	103	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u MW-83 SF

Lab Sample ID:- 680-16530-16-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 1620-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 5.0-
Date Analyzed:- 05/23/2006 2354-
Date Prepared:- 05/23/2006 2354-

Analysis Batch: 680-45462
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0502.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	5.0-	U-	4.7-	5.0-
Chloromethane-	5.0-	U-	2.7-	5.0-
Vinyl chloride-	61-	D-	4.6-	5.0-
Chloroethane-	5.0-	U-	4.5-	5.0-
Methylene Chloride-	25-	U-	2.2	25-
Acetone-	130-	U-	37-	130-
Carbon disulfide-	10-	U-	3.8-	10-
1,1-Dichloroethene-	5.0-	U-	4.7-	5.0-
1,1-Dichloroethane-	5.0-	U-	2.8-	5.0-
1,2-Dichloroethene, cis-, trans-	10-	U-	6.0-	10-
Chloroform-	5.0-	U-	2.6-	5.0-
1,2-Dichloroethane-	11-	D-	1.4-	5.0-
2 Butanone (MEK)	50-	U-	3.6-	50-
1,1,1-Trichloroethane-	5.0-	U-	4.0-	5.0-
Carbon tetrachloride-	5.0-	U-	4.6-	5.0-
Bromodichloromethane-	5.0-	U-	2.1-	5.0-
1,1,2,2-Tetrachloroethane-	5.0-	U-	1.1-	5.0-
1,2-Dichloropropane-	5.0-	U-	1.3-	5.0-
trans-1,3-Dichloropropene-	5.0-	U-	1.8-	5.0-
Trichloroethene-	5.0-	U-	3.6-	5.0-
Dibromochloromethane-	5.0-	U-	2.0-	5.0-
1,1,2-Trichloroethane-	5.0-	U-	1.9-	5.0-
Benzene-	5.0-	U-	2.7-	5.0-
cis-1,3-Dichloropropene-	5.0-	U-	2.1-	5.0-
Bromoform-	5.0-	U-	1.8-	5.0-
2 Hexanone	50-	U-	2.0-	50-
4-Methyl-2-pentanone (MIBK)-	50-	U-	2.3-	50-
Tetrachloroethene-	5.0-	U-	3.8-	5.0-
Toluene-	5.0-	U-	3.1-	5.0-
Chlorobenzene-	5.0-	U-	2.1-	5.0-
Ethylbenzene-	660-	D-	3.1-	5.0-
Styrene-	5.0-	U-	2.1-	5.0-
Xylenes, Total-	10-	U-	6.5-	10-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	103	79 - 122
4-Bromofluorobenzene-	95-	77 - 120-
Dibromofluoromethane-	104-	75 - 123-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Client Sample ID:u **TRIP BLANKF**

Lab Sample ID:- 680-16530-17-
Client Matrix:- Water-

Date Sampled:- 05/10/2006 0000-
Date Received:- 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/23/2006 1929-
Date Prepared:- 05/23/2006 1929-

Analysis Batch: 680-45462

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0489.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-	Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-	1.0-	U-	0.93-	1.0-
Chloromethane-	1.0-	U-	0.53-	1.0-
Vinyl chloride-	1.0-	U-	0.92	1.0-
Chloroethane-	1.0-	U-	0.89-	1.0-
Methylene Chloride-	5.0-	U-	0.44-	5.0-
Acetone-	25-	U-	7.3-	25-
Carbon disulfide-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-	1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-	1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	2.0-	U-	1.2	2.0-
Chloroform-	1.0-	U-	0.52	1.0-
1,2-Dichloroethane-	1.0-	U-	0.28-	1.0-
2 Butanone (MEK)	10-	U-	0.72	10-
1,1,1-Trichloroethane-	1.0-	U-	0.79-	1.0-
Carbon tetrachloride-	1.0-	U-	0.91-	1.0-
Bromodichloromethane-	1.0-	U-	0.42	1.0-
1,1,2,2-Tetrachloroethane-	1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-	1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-	1.0-	U-	0.36-	1.0-
Trichloroethene-	1.0-	U-	0.71-	1.0-
Dibromochloromethane-	1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-	1.0-	U-	0.37-	1.0-
Benzene-	1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-	1.0-	U-	0.41-	1.0-
Bromoform-	1.0-	U-	0.36-	1.0-
2 Hexanone	10-	U-	0.39-	10-
4-Methyl-2-pentanone (MIBK)-	10-	U-	0.45-	10-
Tetrachloroethene-	1.0-	U-	0.75-	1.0-
Toluene-	1.0-	U-	0.62	1.0-
Chlorobenzene-	1.0-	U-	0.41-	1.0-
Ethylbenzene-	1.0-	U-	0.62	1.0-
Styrene-	1.0-	U-	0.42	1.0-
Xylenes, Total-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	103	79 - 122
4-Bromofluorobenzene-	94-	77 - 120-
Dibromofluoromethane-	104-	75 - 123-

DATA REPORTING QUALIFIERSh

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Lab Sectionh	Qualifierh	Descriptionh
GC/MS VOA-		
	U-	Indicates the analyte was analyzed for but not detected.-
	E-	Result exceeded calibration range, secondary dilution required.
	J-	Result is less than the RL but greater than or equal to the MDL - and the concentration is an approximate value.-
	D-	Surrogate or matrix spike recoveries were not obtained - because the extract was diluted for analysis; also compounds - analyzed at a dilution will be flagged with a D.-

QUALITY CONTROL RESULTSO

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

QC Association Summary/

Lab Sample ID/	Client Sample ID/	Client Matrix/	Method/	Prep Batch/
GC/MS VOA/				
Analysis Batch:680-45297F				
LCS 680-45297/10-	Lab Control Spike-	Water-	8260B-	
MB 680-45297/9-	Method Blank-	Water-	8260B-	
680-16530-1-	MW-92 S-	Water-	8260B-	
680-16530-2-	MW-84 S-	Water-	8260B-	
680-16530-3-	MW-99 S-	Water-	8260B-	
680-16530-4-	MW-93 B-	Water-	8260B-	
680-16530-5-	MW-97 S-	Water-	8260B-	
680-16530-6-	MW-58 S-	Water-	8260B-	
680-16530-6MS-	Matrix Spike-	Water-	8260B-	
680-16530-6MSD-	Matrix Spike Duplicate-	Water-	8260B-	
680-16530-7-	MW-95 S-	Water-	8260B-	
680-16530-8-	MW-DUP-1-	Water-	8260B-	
Analysis Batch:680-45329/				
LCS 680-45329/2-	Lab Control Spike-	Water-	8260B-	
MB 680-45329/3-	Method Blank-	Water-	8260B-	
680-16530-1DL-	MW-92 S-	Water-	8260B-	
Analysis Batch:680-45335/				
LCS 680-45335/32-	Lab Control Spike-	Water-	8260B-	
MB 680-45335/11-	Method Blank-	Water-	8260B-	
680-16530-9-	MW-93 B-	Water-	8260B-	
680-16530-10-	MW-94 S-	Water-	8260B-	
680-16530-11-	MW-86 S-	Water-	8260B-	
680-16530-12-	MW- 85 S-	Water-	8260B-	
680-16530-13-	MW-96 SF-	Water-	8260B-	
680-16530-14-	MW-87 S-	Water-	8260B-	
680-16530-15-	MW-98 D	Water	8260B-	
680-16530-16-	MW-83 S-	Water-	8260B-	
Analysis Batch:680-45462/				
LCS 680-45462/2-	Lab Control Spike-	Water-	8260B-	
MB 680-45462/4-	Method Blank-	Water-	8260B-	
680-16530-16DL-	MW-83 S-	Water-	8260B-	
680-16530-17-	TRIP BLANK-	Water-	8260B-	

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

urrogate Recovery ReportS

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample	(BFB)S (%Rec)S	(DBFM)S (%Rec)S	(TOL)S (%Rec)S
LCS 680-45297/10-		98 -	98 -	98 -
LCS 680-45329/2-		98 -	98 -	99 -
LCS 680-45335/32-		102 -	106 -	104 -
LCS 680-45462/2-		101 -	107 -	103 -
MB 680-45297/9-		92 -	100 -	97 -
MB 680-45329/3-		90 -	91 -	94 -
MB 680-45335/11-		93 -	106 -	104 -
MB 680-45462/4-		94 -	104 -	103 -
680-16530-1-	MW-92 S-	89 -	97 -	92 -
680-16530-1DL-	MW-92 S-	92 -	92 -	96 -
680-16530-2-	MW-84 S-	88 -	94 -	95 -
680-16530-3-	MW-99 S-	90 -	92 -	94 -
680-16530-4-	MW-93 B-	86 -	90 -	96 -
680-16530-5-	MW-97 S-	88 -	90 -	94 -
680-16530-6-	MW-58 S-	90 -	90 -	94 -
680-16530-6MS-	MW-58 S-	100 -	94 -	91 -
680-16530-6MSD-	MW-58 S-	96 -	93 -	89 -
680-16530-7-	MW-95 S-	86 -	91 -	93 -
680-16530-8-	MW-DUP-1-	87 -	90 -	95 -
680-16530-9-	MW-93 B-	96 -	107 -	105 -
680-16530-10-	MW-94 S-	96 -	105 -	104 -
680-16530-11-	MW-86 S-	95 -	104 -	103 -
680-16530-12-	MW- 85 S-	96 -	106 -	104 -
680-16530-13-	MW-96 SF-	96 -	104 -	104 -
680-16530-14-	MW-87 S-	96 -	105 -	104 -

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

		(BFB)S (%Rec)S	(DBFM)S (%Rec)S	(TOL)S (%Rec)S
680-16530-15-	MW-98 D-	95 -	105 -	104 -
680-16530-16-	MW-83 S-	96 -	103 -	104 -
680-16530-16DL-	MW-83 S-	95 -	104 -	103 -
680-16530-17-	TRIP BLANK-	94 -	104 -	103

SurrogateS		Acceptance LimitsS
(BFB)-	4-Bromofluorobenzene-	77 - 120-
(DBFM)-	Dibromofluoromethane-	75 - 123-
(TOL)-	Toluene-d8	79 - 122-

Client: Blasland, Bouck & Lee, Inc. (BBL)a

Job Number: 680-16530-1d
Sdg Number: SIO39I

Method Blank - Batch: 680-45297P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dMB 680-45297/9I
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/22/2006 1731d
Date Prepared: 05/22/2006 1731d

Analysis Batch: 680-45297I
Prep Batch: N/AI
Units: ug/LI

nstrument ID:dGC/MS Volatiles - PI
Lab File ID: pq187.dI
nitial Weight/Volume: 5 mLI
Final Weight/Volume:d5 mLI

Analyted	ResultI	QualI	MDLI	RLI
Bromomethaned	1.0d	UI	0.93d	1.0d
Chloromethaned	1.0d	UI	0.53d	1.0d
Vinyl chlorided	1.0d	UI	0.92I	1.0d
Chloroethaned	1.0d	UI	0.89I	1.0d
Methylene Chlorided	5.0d	UI	0.44I	5.0d
Acetoned	25d	UI	7.3d	25d
Carbon disulfided	2.0d	UI I	0.75d	2.0d
1,1-Dichloroethened	1.0d	UI	0.93d	1.0d
1,1-Dichloroethaned	1.0d	UI	0.56d	1.0d
1,2-Dichloroethene, cis-, trans-d	2.0d	UI I	1.2I	2.0d
Chloroformd	1.0d	UI	0.52I	1.0d
1,2-Dichloroethaned	1.0d	UI	0.28d	1.0d
2-Butanone (MEK)I	10d	UI	0.72I	10d
1,1,1-Trichloroethaned	1.0d	UI	0.79I	1.0d
Carbon tetrachlorided	1.0d	UI	0.91d	1.0d
Bromodichloromethaned	1.0d	UI	0.42I	1.0d
1,1,2,2-Tetrachloroethaned	1.0d	UI	0.21d	1.0d
1,2-Dichloropropaned	1.0d	UI	0.26d	1.0d
trans-1,3-Dichloropropened	1.0d	UI	0.36d	1.0d
Trichloroethened	1.0d	UI	0.71d	1.0d
Dibromochloromethaned	1.0d	UI	0.40d	1.0d
1,1,2-Trichloroethaned	1.0d	UI	0.37I	1.0d
Benzened	1.0d	UI	0.54I	1.0d
cis-1,3-Dichloropropened	1.0d	UI	0.41d	1.0d
Bromoformd	1.0d	UI	0.36d	1.0d
2-Hexanoned	10d	UI	0.39I	10d
4-Methyl-2-pentanone (MIBK)I	10d	UI	0.45d	10d
Tetrachloroethened	1.0d	UI	0.75d	1.0d
Toluened	1.0d	UI	0.62I	1.0d
Chlorobenzened	1.0d	UI	0.41d	1.0d
Ethylbenzened	1.0d	UI	0.62I	1.0d
Styrened	1.0d	UI	0.42I	1.0d
Xylenes, TotalI	2.0d	UI I	1.3d	2.0d

Surrogated	% RecI	Acceptance LimitsI
Toluene-d8d	97I	79 - 122I
4-Bromofluorobenzened	92	77 - 120d
Dibromofluoromethaned	100d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.I

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39l

Laboratory Control Sample - Batch: 680-45297P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dLCS 680-45297/10d
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/22/2006 1759l
Date Prepared: 05/22/2006 1759l

Analysis Batch: 680-45297l
Prep Batch: N/Al
Units: ug/Ll

nstrument ID:dGC/MS Volatiles - Pl
Lab File ID: pq189.dl
nitial Weight/Volume: 5 mLl
Final Weight/Volume:d5 mLl

Analyted	Spike Amountl	Resultl	% Rec.l	Limitl	Quall
Bromomethaned	50.0	51.5d	103d	21 - 176d	
Chloromethaned	50.0d	45.8d	92l	51 - 133d	
Vinyl chlorided	50.0d	47.9l	96d	59 - 136d	
Chloroethaned	50.0	61.2l	122l	40 - 171d	
Methylene Chlorided	50.0d	48.0d	96d	67 - 128d	
Acetoned	100d	119l	119l	20 - 183d	
Carbon disulfided	50.0d	44.9l	90d	60 - 130d	
1,1-Dichloroethened	50.0d	49.8d	100d	64 - 132l	
1,1-Dichloroethaned	50.0d	47.0d	94l	70 - 127l	
1,2-Dichloroethene, cis-, trans-d	100d	95.9l	96d	70 - 130d	
Chloroformd	50.0d	48.7l	97l	74 - 124l	
1,2-Dichloroethaned	50.0d	47.0d	94l	68 - 130d	
2-Butanone (MEK)l	100d	111d	111d	51 - 142l	
1,1,1-Trichloroethaned	50.0d	48.2	96d	70 - 132l	
Carbon tetrachlorided	50.0d	47.9l	96d	64 - 137l	
Bromodichloromethaned	50.0	51.5d	103d	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	52.8d	106d	71 - 127l	
1,2-Dichloropropaned	50.0d	48.8d	98d	74 - 123d	
trans-1,3-Dichloropropened	50.0d	49.4l	99l	75 - 126d	
Trichloroethened	50.0d	47.7l	95d	75 - 122l	
Dibromochloromethaned	50.0	53.3	107l	75 - 126d	
1,1,2-Trichloroethaned	50.0d	47.8d	96d	75 - 122l	
Benzened	50.0d	47.6d	95d	74 - 122l	
cis-1,3-Dichloropropened	50.0d	48.3d	97l	76 - 126d	
Bromoformd	50.0d	52.4l	105d	64 - 132l	
2-Hexanoned	100d	118d	118d	58 - 139l	
4-Methyl-2-pentanone (MIBK)l	100d	103d	103d	62 - 130d	
Tetrachloroethened	50.0d	48.2	96d	70 - 133d	
Toluened	50.0d	47.4l	95d	75 - 122l	
Chlorobenzened	50.0d	52.7l	105d	75 - 123d	
Ethylbenzened	50.0d	52.2l	104	77 - 123d	
Styrened	50.0	53.6	107l	75 - 125d	
Xylenes, Totall	150d	152l	101d	77 - 121d	

Surrogate	% Recl	Acceptance Limitsl
Toluene-d8d	98d	79 - 122l
4-Bromofluorobenzened	98d	77 - 120d
Dibromofluoromethaned	98d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.l

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39l

Matrix Spike/P
Matrix Spike Duplicate Recovery Report - Batch: 680-45297P

Method: 8260BP
reparation: 5030BP

MS Lab Sample ID:d	680-16530-6d	Analysis Batch: 680-45297l	nstrument ID:dGC/MS Volatiles - Pl
Client Matrix:d	Waterd	Prep Batch: N/Al	Lab File ID: p0117.dl
Dilution:d	1.0d		nitial Weight/Volume:d5 mLl
Date Analyzed:d	05/22/2006 2115d		Final Weight/Volume: 5 mLl
Date Prepared:d	05/22/2006 2115d		

MSD Lab Sample ID:d	680-16530-6d	Analysis Batch: 680-45297l	nstrument ID:dGC/MS Volatiles - Pl
Client Matrix:d	Waterd	Prep Batch: N/Al	Lab File ID: p0119.dl
Dilution:d	1.0d		nitial Weight/Volume:d5 mLl
Date Analyzed:d	05/22/2006 2143d		Final Weight/Volume:d5 mLl
Date Prepared:	05/22/2006 2143d		

Analyted	% Rec.l MSl	MSDl	Limitl	RPDl	RPD Limitl	MS Quall	MSD Quall
Bromomethaned	83d	87l	21 - 176	5d	50d		
Chloromethaned	61d	66d	51 - 133d	8d	50d		
Vinyl chlorided	66d	72l	59 - 136d	8d	50d		
Chloroethaned	91d	96d	40 - 171	5d	50d		
Methylene Chlorided	91d	93d	67 - 128	3d	30d		
Acetoned	94l	102l	20 - 183d	8d	50d		
Carbon disulfided	97l	101d	60 - 130d	5d	30d		
1,1-Dichloroethened	89l	91d	64 - 132l	2l	30d		
1,1-Dichloroethaned	93d	96d	70 - 127l	3	30d		
1,2-Dichloroethene, cis-, trans-d	92	96d	70 - 130d	4l	30d		
Chloroformd	100d	101d	74 - 124l	1	30d		
1,2-Dichloroethaned	97l	97l	68 - 130d	0d	30d		
2-Butanone (MEK)l	108d	107l	51 - 142l	0	30d		
1,1,1-Trichloroethaned	100d	102l	70 - 132l	1	30d		
Carbon tetrachlorided	102	99l	64 - 137l	3	30d		
Bromodichloromethaned	103d	100d	74 - 128	3d	30d		
1,1,2,2-Tetrachloroethaned	102	97l	71 - 127l	5	30d		
1,2-Dichloropropaned	90	88d	74 - 123d	2l	30d		
trans-1,3-Dichloropropened	104	99l	75 - 126	5d	30d		
Trichloroethened	93d	93d	75 - 122l	0	30d		
Dibromochloromethaned	102l	100d	75 - 126d	2l	30d		
1,1,2-Trichloroethaned	91	86d	75 - 122l	6	30d		
Benzened	93d	95d	74 - 122l	2l	30d		
cis-1,3-Dichloropropened	99l	98d	76 - 126d	2l	30d		
Bromoformd	102l	104l	64 - 132l	1	30d		
2-Hexanoned	109l	107l	58 - 139l	2l	30d		
4-Methyl-2-pentanone (MIBK)l	103d	100d	62 - 130d	3d	30d		
Tetrachloroethened	97l	93d	70 - 133d	4l	30d		
Toluened	94l	90d	75 - 122l	5	30d		
Chlorobenzened	100d	97l	75 - 123	3d	30d		

Calculations are performed before rounding to avoid round-off errors in calculated results.l

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39l

Matrix Spike/P
Matrix Spike Duplicate Recovery Report - Batch: 680-45297P

Method: 8260BP
reparation: 5030BP

MS Lab Sample ID:d	680-16530-6d	Analysis Batch: 680-45297l	nstrument ID:dGC/MS Volatiles - Pl
Client Matrix:d	Waterd	Prep Batch: N/Al	Lab File ID: p0117.dl
Dilution:d	1.0d		nitial Weight/Volume:d5 mLl
Date Analyzed:d	05/22/2006 2115d		Final Weight/Volume: 5 mLl
Date Prepared:d	05/22/2006 2115d		

MSD Lab Sample ID:d	680-16530-6d	Analysis Batch: 680-45297l	nstrument ID:dGC/MS Volatiles - Pl
Client Matrix:d	Waterd	Prep Batch: N/Al	Lab File ID: p0119.dl
Dilution:d	1.0d		nitial Weight/Volume:d5 mLl
Date Analyzed:d	05/22/2006 2143d		Final Weight/Volume:d5 mLl
Date Prepared:	05/22/2006 2143d		

	% Rec.l						
Analyted	MSl	MSDl	Limitl	RPDl	RPD Limitl	MS Quall	MSD Quall
Ethylbenzened	101d	101d	77 - 123	0l	30d		
Styrened	96d	98d	75 - 125d	2l	30d		
Xylenes, Totall	98d	97l	77 - 121	1l	30d		

Surrogated	MS % Recl	MSD % Recl	Acceptance Limitsl
Toluene-d8d	91d	89	79 - 122l
4-Bromofluorobenzened	100d	96d	77 - 120d
Dibromofluoromethaned	94l	93d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.l

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39l

Matrix Spike/P
Matrix Spike Duplicate Data Report - Batch: 680-45297P

Method: 8260BP
reparation: 5030BP

MS Lab Sample ID:d 680-16530-6d
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d 05/22/2006 2115d
Date Prepared:d 05/22/2006 2115d

Units: ug/Ll

MSD Lab Sample ID:d 680-16530-6d
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d 05/22/2006 2143d
Date Prepared:d 05/22/2006 2143d

Analyted	Sample d Result/Quall		MS Spike d Amountl	MSD Spike d Amountl	MS d Result/Quall	MSD d Result/Quall
Bromomethaned	0.0d	Ul	50.0	50.0d	41.3d	43.5d
Chloromethaned	0.0d	Ul	50.0	50.0	30.7l	33.1d
Vinyl chlorided	5.12l		50.0	50.0d	37.9l	41.1d
Chloroethaned	0.0d	Ul	50.0	50.0d	45.6d	48.0d
Methylene Chlorided	0.0d	Ul	50.0	50.0d	45.4l	46.6d
Acetoned	0.0d	Ul	100d	100d	94.0	102l
Carbon disulfided	0.0d	Ul	50.0	50.0d	48.3	50.6d
1,1-Dichloroethened	0.0d	Ul	50.0	50.0d	44.3d	45.3d
1,1-Dichloroethaned	0.0d	Ul	50.0	50.0d	46.6d	47.9l
1,2-Dichloroethene, cis-, trans-d	0.0d	Ul	100d	100d	92.3d	96.1d
Chloroformd	0.0d	Ul	50.0	50.0d	49.8	50.4l
1,2-Dichloroethaned	0.0d	Ul	50.0	50.0d	48.5d	48.4l
2-Butanone (MEK)l	0.0d	Ul	100d	100d	108d	107l
1,1,1-Trichloroethaned	0.0d	Ul	50.0	50.0	50.2l	50.8d
Carbon tetrachlorided	0.0d	Ul	50.0	50.0	51.0d	49.3d
Bromodichloromethaned	0.0d	Ul	50.0	50.0	51.7l	50.1d
1,1,2,2-Tetrachloroethaned	0.0d	Ul	50.0	50.0	51.0d	48.5d
1,2-Dichloropropaned	0.0d	Ul	50.0	50.0d	45.2	44.1d
trans-1,3-Dichloropropened	0.0d	Ul	50.0	50.0	51.8d	49.4l
Trichloroethened	0.0d	Ul	50.0	50.0d	46.5d	46.4l
Dibromochloromethaned	0.0d	Ul	50.0	50.0	51.2l	50.2l
1,1,2-Trichloroethaned	0.0d	Ul	50.0	50.0d	45.4l	42.9l
Benzened	0.0d	Ul	50.0	50.0d	46.3d	47.3d
cis-1,3-Dichloropropened	0.0d	Ul	50.0	50.0d	49.7l	48.9l
Bromoformd	0.0d	Ul	50.0	50.0	51.2l	51.8d
2-Hexanoned	0.0d	Ul	100d	100d	109l	107l
4-Methyl-2-pentanone (MIBK)l	0.0d	Ul	100d	100d	103d	99.9l
Tetrachloroethened	0.0d	Ul	50.0	50.0d	48.4l	46.7l
Toluened	0.0d	Ul	50.0	50.0d	47.2	45.1d
Chlorobenzened	0.0d	Ul	50.0	50.0d	49.9l	48.4l
Ethylbenzened	0.0d	Ul	50.0	50.0	50.5	50.4l
Styrened	0.0d	Ul	50.0	50.0d	48.1d	48.8d
Xylenes, Totall	0.0d	Ul	150d	150d	147l	145d

Calculations are performed before rounding to avoid round-off errors in calculated results.l

Client: Blasland, Bouck & Lee, Inc. (BBL)a

Job Number: 680-16530-1d
Sdg Number: SIO39I

Method Blank - Batch: 680-45329P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dMB 680-45329/3d
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/23/2006 0221d
Date Prepared: 05/23/2006 0221d

Analysis Batch: 680-45329I
Prep Batch: N/AI
Units: ug/LI

nstrument ID:dGC/MS Volatiles - PI
Lab File ID: pq199.dI
nitial Weight/Volume: 5 mLI
Final Weight/Volume:d5 mLI

Analyted	ResultI	QualI	MDLI	RLI
Bromomethaned	1.0d	UI	0.93d	1.0d
Chloromethaned	1.0d	UI	0.53d	1.0d
Vinyl chlorided	1.0d	UI	0.92I	1.0d
Chloroethaned	1.0d	UI	0.89I	1.0d
Methylene Chlorided	5.0d	UI	0.44I	5.0d
Acetoned	25d	UI	7.3d	25d
Carbon disulfided	2.0d	UI I	0.75d	2.0d
1,1-Dichloroethened	1.0d	UI	0.93d	1.0d
1,1-Dichloroethaned	1.0d	UI	0.56d	1.0d
1,2-Dichloroethene, cis-, trans-d	2.0d	UI I	1.2I	2.0d
Chloroformd	1.0d	UI	0.52I	1.0d
1,2-Dichloroethaned	1.0d	UI	0.28d	1.0d
2-Butanone (MEK)I	10d	UI	0.72I	10d
1,1,1-Trichloroethaned	1.0d	UI	0.79I	1.0d
Carbon tetrachlorided	1.0d	UI	0.91d	1.0d
Bromodichloromethaned	1.0d	UI	0.42I	1.0d
1,1,2,2-Tetrachloroethaned	1.0d	UI	0.21d	1.0d
1,2-Dichloropropaned	1.0d	UI	0.26d	1.0d
trans-1,3-Dichloropropened	1.0d	UI	0.36d	1.0d
Trichloroethened	1.0d	UI	0.71d	1.0d
Dibromochloromethaned	1.0d	UI	0.40d	1.0d
1,1,2-Trichloroethaned	1.0d	UI	0.37I	1.0d
Benzened	1.0d	UI	0.54I	1.0d
cis-1,3-Dichloropropened	1.0d	UI	0.41d	1.0d
Bromoformd	1.0d	UI	0.36d	1.0d
2-Hexanoned	10d	UI	0.39I	10d
4-Methyl-2-pentanone (MIBK)I	10d	UI	0.45d	10d
Tetrachloroethened	1.0d	UI	0.75d	1.0d
Toluened	1.0d	UI	0.62I	1.0d
Chlorobenzened	1.0d	UI	0.41d	1.0d
Ethylbenzened	1.0d	UI	0.62I	1.0d
Styrened	1.0d	UI	0.42I	1.0d
Xylenes, TotalI	2.0d	UI I	1.3d	2.0d

Surrogated	% RecI	Acceptance LimitsI
Toluene-d8d	94I	79 - 122I
4-Bromofluorobenzened	90d	77 - 120d
Dibromofluoromethaned	91d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.I

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39l

Laboratory Control Sample - Batch: 680-45329P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dLCS 680-45329/2l
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/23/2006 0125d
Date Prepared: 05/23/2006 0125d

Analysis Batch: 680-45329l
Prep Batch: N/Al
Units: ug/Ll

nstrument ID:dGC/MS Volatiles - Pl
Lab File ID: pq195.dl
nitial Weight/Volume: 5 mLl
Final Weight/Volume:d5 mLl

Analyted	Spike Amountl	Resultl	% Rec.l	Limitl	Qual l
Bromomethaned	50.0d	52.4l	105d	21 - 176d	
Chloromethaned	50.0d	46.3d	93d	51 - 133d	
Vinyl chlorided	50.0d	48.6d	97l	59 - 136d	
Chloroethaned	50.0d	51.6d	103d	40 - 171d	
Methylene Chlorided	50.0d	49.3d	99l	67 - 128d	
Acetoned	100d	113d	113d	20 - 183d	
Carbon disulfided	50.0d	46.2	92	60 - 130d	l
1,1-Dichloroethened	50.0d	49.4l	99l	64 - 132l	
1,1-Dichloroethaned	50.0d	49.3d	99l	70 - 127l	
1,2-Dichloroethene, cis-, trans-d	100d	97.9l	98d	70 - 130d	
Chloroformd	50.0d	50.2l	100d	74 - 124l	
1,2-Dichloroethaned	50.0d	48.2	96d	68 - 130d	
2-Butanone (MEK)l	100d	114l	114l	51 - 142l	
1,1,1-Trichloroethaned	50.0d	48.8d	98d	70 - 132l	
Carbon tetrachlorided	50.0d	50.2l	100d	64 - 137l	
Bromodichloromethaned	50.0d	53.8d	108d	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	47.5d	95d	71 - 127l	
1,2-Dichloropropaned	50.0d	47.9l	96d	74 - 123d	
trans-1,3-Dichloropropened	50.0d	48.8d	98d	75 - 126d	
Trichloroethened	50.0d	49.7l	99l	75 - 122l	
Dibromochloromethaned	50.0d	54.6	d109l	75 - 126d	
1,1,2-Trichloroethaned	50.0d	49.2	98d	75 - 122l	
Benzened	50.0d	48.1d	96d	74 - 122l	
cis-1,3-Dichloropropened	50.0d	48.8d	98d	76 - 126d	
Bromoformd	50.0d	53.8d	108d	64 - 132l	
2-Hexanoned	100d	107l	107l	58 - 139l	
4-Methyl-2-pentanone (MIBK)l	100d	99.0d	99l	62 - 130d	
Tetrachloroethened	50.0d	49.6d	99l	70 - 133d	
Toluened	50.0d	47.7l	95d	75 - 122l	
Chlorobenzened	50.0d	51.5d	103d	75 - 123d	
Ethylbenzened	50.0d	50.9l	102	77 - 123d	
Styrened	50.0d	50.9l	102l	75 - 125d	
Xylenes, Totall	150d	149l	100d	77 - 121d	

Surrogate	% Recl	Acceptance Limitsl
Toluene-d8d	99l	79 - 122l
4-Bromofluorobenzened	98d	77 - 120d
Dibromofluoromethaned	98d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.l

Client: Blasland, Bouck & Lee, Inc. (BBL)a

Job Number: 680-16530-1d
Sdg Number: SIO39I

Method Blank - Batch: 680-45335P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dMB 680-45335/11d
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/23/2006 0816d
Date Prepared: 05/23/2006 0816d

Analysis Batch: 680-45335d
Prep Batch: N/AI
Units: ug/LI

nstrument ID:dGC/MS Volatiles - SI
Lab File ID: sq371.dI
nitial Weight/Volume: 5 mLI
Final Weight/Volume:d5 mLI

Analyted	ResultI	QualI	MDLI	RLI
Bromomethaned	1.0d	UI	0.93d	1.0d
Chloromethaned	1.0d	UI	0.53d	1.0d
Vinyl chlorided	1.0d	UI	0.92I	1.0d
Chloroethaned	1.0d	UI	0.89I	1.0d
Methylene Chlorided	5.0d	UI	0.44I	5.0d
Acetoned	25d	UI	7.3d	25d
Carbon disulfided	2.0d	UI I	0.75d	2.0d
1,1-Dichloroethened	1.0d	UI	0.93d	1.0d
1,1-Dichloroethaned	1.0d	UI	0.56d	1.0d
1,2-Dichloroethene, cis-, trans-d	2.0d	UI I	1.2I	2.0d
Chloroformd	1.0d	UI	0.52I	1.0d
1,2-Dichloroethaned	1.0d	UI	0.28d	1.0d
2-Butanone (MEK)I	10d	UI	0.72I	10d
1,1,1-Trichloroethaned	1.0d	UI	0.79I	1.0d
Carbon tetrachlorided	1.0d	UI	0.91d	1.0d
Bromodichloromethaned	1.0d	UI	0.42I	1.0d
1,1,2,2-Tetrachloroethaned	1.0d	UI	0.21d	1.0d
1,2-Dichloropropaned	1.0d	UI	0.26d	1.0d
trans-1,3-Dichloropropened	1.0d	UI	0.36d	1.0d
Trichloroethened	1.0d	UI	0.71d	1.0d
Dibromochloromethaned	1.0d	UI	0.40d	1.0d
1,1,2-Trichloroethaned	1.0d	UI	0.37I	1.0d
Benzened	1.0d	UI	0.54I	1.0d
cis-1,3-Dichloropropened	1.0d	UI	0.41d	1.0d
Bromoformd	1.0d	UI	0.36d	1.0d
2-Hexanoned	10d	UI	0.39I	10d
4-Methyl-2-pentanone (MIBK)I	10d	UI	0.45d	10d
Tetrachloroethened	1.0d	UI	0.75d	1.0d
Toluened	1.0d	UI	0.62I	1.0d
Chlorobenzened	1.0d	UI	0.41d	1.0d
Ethylbenzened	1.0d	UI	0.62I	1.0d
Styrened	1.0d	UI	0.42I	1.0d
Xylenes, TotalI	2.0d	UI I	1.3d	2.0d

Surrogated	% RecI	Acceptance LimitsI
Toluene-d8	d104	79 - 122I
4-Bromofluorobenzened	93d	77 - 120d
Dibromofluoromethaned	106d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.I

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39I

Laboratory Control Sample - Batch: 680-45335P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dLCS 680-45335/32I
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/23/2006 1600d
Date Prepared: 05/23/2006 1600d

Analysis Batch: 680-45335d
Prep Batch: N/AI
Units: ug/LI

nstrument ID:dGC/MS Volatiles - SI
Lab File ID: s0487.dI
nitial Weight/Volume: 5 mLI
Final Weight/Volume:d5 mLI

Analyted	Spike AmountI	ResultI	% Rec.I	LimitI	QualI
Bromomethaned	50.0d	32I	65d	21 - 176d	
Chloromethaned	50.0d	58d	116d	51 - 133d	
Vinyl chlorided	50.0	60	121d	59 - 136d	
Chloroethaned	50.0	58	117I	40 - 171d	
Methylene Chlorided	50.0d	59I	119I	67 - 128d	
Acetoned	100d	110d	108d	20 - 183d	
Carbon disulfided	50.0d	58d	116d	60 - 130d	
1,1-Dichloroethened	50.0d	57I	114I	64 - 132I	
1,1-Dichloroethaned	50.0d	55d	111d	70 - 127I	
1,2-Dichloroethene, cis-, trans-d	100d	110d	111d	70 - 130d	
Chloroformd	50.0d	53d	105d	74 - 124I	
1,2-Dichloroethaned	50.0d	52I	105d	68 - 130d	
2-Butanone (MEK)I	100d	95d	95d	51 - 142I	
1,1,1-Trichloroethaned	50.0d	54I	108d	70 - 132I	
Carbon tetrachlorided	50.0	56	112I	64 - 137I	
Bromodichloromethaned	50.0d	53d	106d	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	53d	106d	71 - 127I	
1,2-Dichloropropaned	50.0d	52I	103d	74 - 123d	
trans-1,3-Dichloropropened	50.0	53	107I	75 - 126d	
Trichloroethened	50.0d	52I	104I	75 - 122I	
Dibromochloromethaned	50.0d	55d	110d	75 - 126d	
1,1,2-Trichloroethaned	50.0	51	102I	75 - 122I	
Benzened	50.0	53	107	74 - 122I	
cis-1,3-Dichloropropened	50.0d	53d	106d	76 - 126d	
Bromoformd	50.0d	47I	95d	64 - 132I	
2-Hexanoned	100d	110d	108d	58 - 139I	
4-Methyl-2-pentanone (MIBK)I	100d	100d	103d	62 - 130d	
Tetrachloroethened	50.0d	52I	103d	70 - 133d	
Toluened	50.0d	51d	103d	75 - 122I	
Chlorobenzened	50.0	51	102I	75 - 123d	
Ethylbenzened	50.0	51	102	77 - 123d	
Styrened	50.0d	53d	106d	75 - 125d	
Xylenes, TotalI	150d	160d	104	77 - 121d	

Surrogate	% RecI	Acceptance LimitsI
Toluene-d8	104	79 - 122I
4-Bromofluorobenzene	102	77 - 120d
Dibromofluoromethaned	106d	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.I

Client: Blasland, Bouck & Lee, Inc. (BBL)a

Job Number: 680-16530-1d
Sdg Number: SIO39I

Method Blank - Batch: 680-45462P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dMB 680-45462/4I
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/23/2006 1909I
Date Prepared: 05/23/2006 1909I

Analysis Batch: 680-45462I
Prep Batch: N/AI
Units: ug/LI

nstrument ID:dGC/MS Volatiles - SI
Lab File ID: sq375.dI
nitial Weight/Volume: 5 mLI
Final Weight/Volume:d5 mLI

Analyted	ResultI	QualI	MDLI	RLI
Bromomethaned	1.0d	UI	0.93d	1.0d
Chloromethaned	1.0d	UI	0.53d	1.0d
Vinyl chlorided	1.0d	UI	0.92I	1.0d
Chloroethaned	1.0d	UI	0.89I	1.0d
Methylene Chlorided	5.0d	UI	0.44I	5.0d
Acetoned	25d	UI	7.3d	25d
Carbon disulfided	2.0d	UI I	0.75d	2.0d
1,1-Dichloroethened	1.0d	UI	0.93d	1.0d
1,1-Dichloroethaned	1.0d	UI	0.56d	1.0d
1,2-Dichloroethene, cis-, trans-d	2.0d	UI I	1.2I	2.0d
Chloroformd	1.0d	UI	0.52I	1.0d
1,2-Dichloroethaned	1.0d	UI	0.28d	1.0d
2-Butanone (MEK)I	10d	UI	0.72I	10d
1,1,1-Trichloroethaned	1.0d	UI	0.79I	1.0d
Carbon tetrachlorided	1.0d	UI	0.91d	1.0d
Bromodichloromethaned	1.0d	UI	0.42I	1.0d
1,1,2,2-Tetrachloroethaned	1.0d	UI	0.21d	1.0d
1,2-Dichloropropaned	1.0d	UI	0.26d	1.0d
trans-1,3-Dichloropropened	1.0d	UI	0.36d	1.0d
Trichloroethened	1.0d	UI	0.71d	1.0d
Dibromochloromethaned	1.0d	UI	0.40d	1.0d
1,1,2-Trichloroethaned	1.0d	UI	0.37I	1.0d
Benzened	1.0d	UI	0.54I	1.0d
cis-1,3-Dichloropropened	1.0d	UI	0.41d	1.0d
Bromoformd	1.0d	UI	0.36d	1.0d
2-Hexanoned	10d	UI	0.39I	10d
4-Methyl-2-pentanone (MIBK)I	10d	UI	0.45d	10d
Tetrachloroethened	1.0d	UI	0.75d	1.0d
Toluened	1.0d	UI	0.62I	1.0d
Chlorobenzened	1.0d	UI	0.41d	1.0d
Ethylbenzened	1.0d	UI	0.62I	1.0d
Styrened	1.0d	UI	0.42I	1.0d
Xylenes, TotalI	2.0d	UI I	1.3d	2.0d

Surrogated	% RecI	Acceptance LimitsI
Toluene-d8d	103d	79 - 122I
4-Bromofluorobenzened	94I	77 - 120d
Dibromofluoromethane	d104I	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.I

Client: Blasland, Bouck & Lee, Inc. (BBL)l

Job Number: 680-16530-1d
Sdg Number: SIO39l

Laboratory Control Sample - Batch: 680-45462P

Method: 8260BP
reparation: 5030BP

Lab Sample ID:dLCS 680-45462/2l
Client Matrix:d Waterd
Dilution:d 1.0d
Date Analyzed:d05/23/2006 1828d
Date Prepared: 05/23/2006 1828d

Analysis Batch: 680-45462l
Prep Batch: N/Al
Units: ug/Ll

nstrument ID:dGC/MS Volatiles - Sl
Lab File ID: sq373.dl
nitial Weight/Volume: 5 mLl
Final Weight/Volume:d5 mLl

Analyted	Spike Amountl	Resultl	% Rec.l	Limitl	Quall
Bromomethaned	50.0d	43.7l	87l	21 - 176d	
Chloromethaned	50.0d	58.2l	116d	51 - 133d	
Vinyl chlorided	50.0d	63.2l	126d	59 - 136d	
Chloroethaned	50.0d	55.5d	111d	40 - 171d	
Methylene Chlorided	50.0d	60.0d	120d	67 - 128d	
Acetoned	100d	111d	111d	20 - 183d	
Carbon disulfided	50.0d	58.4l	117l	60 - 130d	
1,1-Dichloroethened	50.0d	57.6d	115d	64 - 132l	
1,1-Dichloroethaned	50.0d	55.1d	110d	70 - 127l	
1,2-Dichloroethene, cis-, trans-d	100d	111d	111d	70 - 130d	
Chloroformd	50.0d	52.3d	105d	74 - 124l	
1,2-Dichloroethaned	50.0d	51.6d	103d	68 - 130d	
2-Butanone (MEK)l	100d	105d	105d	51 - 142l	
1,1,1-Trichloroethaned	50.0d	53.9l	108d	70 - 132l	
Carbon tetrachlorided	50.0d	57.5d	115d	64 - 137l	
Bromodichloromethaned	50.0d	53.1d	106d	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	53.8d	108d	71 - 127l	
1,2-Dichloropropaned	50.0d	51.7l	103d	74 - 123d	
trans-1,3-Dichloropropened	50.0d	54.3	d109l	75 - 126d	
Trichloroethened	50.0d	51.3d	103d	75 - 122l	
Dibromochloromethaned	50.0d	55.5d	111d	75 - 126d	
1,1,2-Trichloroethaned	50.0d	50.8	d102l	75 - 122l	
Benzened	50.0d	52.9l	106d	74 - 122l	
cis-1,3-Dichloropropened	50.0d	53.9l	108d	76 - 126d	
Bromoformd	50.0d	48.4l	97l	64 - 132l	
2-Hexanoned	100d	110d	110d	58 - 139l	
4-Methyl-2-pentanone (MIBK)l	100d	106d	106d	62 - 130d	
Tetrachloroethened	50.0d	51.2l	102l	70 - 133d	
Toluened	50.0d	51.6d	103d	75 - 122l	
Chlorobenzened	50.0d	50.4l	101d	75 - 123d	
Ethylbenzened	50.0d	50.9l	102	77 - 123d	
Styrened	50.0d	52.5d	105d	75 - 125d	
Xylenes, Totall	150d	155d	103d	77 - 121d	

Surrogate	% Recl	Acceptance Limitsl
Toluene-d8d	103d	79 - 122l
4-Bromofluorobenzened	101d	77 - 120d
Dibromofluoromethane	d107l	75 - 123d

Calculations are performed before rounding to avoid round-off errors in calculated results.l

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Laboratory ChronicleD

Client Samples:I

Lab ID:D 16530-1D **Client ID:D MW-92 SD**

Sample Date/Time:- 05/09/2006 1120- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-1-	1-	680-45297-		05/22/2006 1827-	5.00 -	SAV-	JV-
A-8260B-	680-16530-B-1-	2-	680-45329-		05/23/2006 0947-	25.00 -	SAV-	JV-

Lab ID:D 16530-2D **Client ID:D MW-84 SD**

Sample Date/Time:- 05/09/2006 1245- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-2-	1-	680-45297-		05/22/2006 1855-	1.00 -	SAV-	JV-

Lab ID:D 16530-3D **Client ID:D MW-99 SD**

Sample Date/Time:- 05/09/2006 1345- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-3-	1-	680-45297-		05/22/2006 1923-	1.00 -	SAV-	JV-

Lab ID:D 16530-4D **Client ID:D MW-93 BD**

Sample Date/Time:- 05/09/2006 1425- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-4-	1-	680-45297-		05/22/2006 1951-	1.00 -	SAV-	JV-

Lab ID:D 16530-5D **Client ID:D MW-97 SD**

Sample Date/Time:- 05/09/2006 1445- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-5-	1-	680-45297-		05/22/2006 2019-	1.00 -	SAV-	JV-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Laboratory ChronicleD

Client Samples:-

Lab ID:D 16530-6D Client ID:D MW-58 SD

Sample Date/Time:- 05/09/2006 1540- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-6-	1-	680-45297-		05/22/2006 2047-	1.00 -	SAV-	JV-

Lab ID:D 16530-6MSD Client ID:D MW-58 S MSD

Sample Date/Time:- 05/09/2006 1540- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-6 -	1-	680-45297-		05/22/2006 2115-	1.00 -	SAV-	JV-

Lab ID:D 16530-6MSD Client ID:D MW-58 S MSD

Sample Date/Time:- 05/09/2006 1540- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-6 -	1-	680-45297-		05/22/2006 2143-	1.00 -	SAV-	JV-

Lab ID:D 16530-7D Client ID:D MW-95 SD

Sample Date/Time:- 05/09/2006 1551- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-7-	1-	680-45297-		05/22/2006 2211-	1.00 -	SAV-	JV-

Lab ID:D 16530-8D Client ID:D MW-DUP-1D

Sample Date/Time:- 05/09/2006 0000- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-8-	1-	680-45297-		05/22/2006 2238-	1.00 -	SAV-	JV-

Lab ID:D 16530-9D Client ID:D MW-93 BD

Sample Date/Time:- 05/10/2006 0900- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-9-	1-	680-45335-		05/23/2006 0902-	1.00 -	SAV-	MA-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Laboratory ChronicleD

Client Samples:-

Lab ID:D 16530-10D **Client ID:D MW-94 SD**

Sample Date/Time:- 05/10/2006 0935- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-A-10-	1-	680-45335-		05/23/2006 0923-	1.00 -	SAV-	MA-

Lab ID:D 16530-11D **Client ID:D MW-86 SD**

Sample Date/Time:- 05/10/2006 1145- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-11-	1-	680-45335-		05/23/2006 1459-	50.00 -	SAV-	MA-

Lab ID:D 16530-12D **Client ID:D MW- 85 SD**

Sample Date/Time:- 05/10/2006 1155- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-12-	1-	680-45335-		05/23/2006 1108-	1.00 -	SAV-	MA-

Lab ID:D 16530-13D **Client ID:D MW-96 SFD**

Sample Date/Time:- 05/10/2006 1410- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-13-	1-	680-45335-		05/23/2006 1156-	1.00 -	SAV-	MA-

Lab ID:D 16530-14D **Client ID:D MW-87 SD**

Sample Date/Time:- 05/10/2006 1518- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-14-	1-	680-45335-		05/23/2006 1217-	1.00 -	SAV-	MA-

Lab ID:D 16530-15D **Client ID:D MW-98 F**

Sample Date/Time:- 05/10/2006 1540- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-15-	1-	680-45335-		05/23/2006 1048-	1.00 -	SAV-	MA-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39-

Laboratory ChronicleD

Client Samples:-

Lab ID:D 16530-16D **Client ID:D MW-83 SD**

Sample Date/Time:- 05/10/2006 1620- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-B-16-	1-	680-45335-		05/23/2006 1237-	1.00 -	SAV-	MA-
A-8260B-	680-16530-C-16-	2-	680-45462-		05/23/2006 2354-	5.00 -	SAV-	MA-

Lab ID:D 16530-17D **Client ID:D TRIP BLANKD**

Sample Date/Time:- 05/10/2006 0000- Received Date/Time:- 05/11/2006 0922-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-	680-16530-C-17-	1-	680-45462-		05/23/2006 1929-	1.00 -	SAV-	MA-

Lab ID:D MBD **Client ID:D MBD**

Sample Date/Time:- NA- Received Date/Time:- NA-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-		1-	680-45297-		05/22/2006 1731-	1.00 -	SAV-	JV-
A-8260B-		1-	680-45329-		05/23/2006 0221-	1.00 -	SAV-	JV-
A-8260B-		1-	680-45335-		05/23/2006 0816-	1.00 -	SAV-	MA-
A-8260B-		1-	680-45462-		05/23/2006 1909-	1.00 -	SAV-	MA-

Lab ID:D LCSD **Client ID:D LCSD**

Sample Date/Time:- NA- Received Date/Time:- NA-

MethodD	Bottle ID	RunD	Analysis BatchD	Prep Batch	Date Analyzed	DilutionD	LabD	AnalystD
A-8260B-		1-	680-45297-		05/22/2006 1759-	1.00 -	SAV-	JV-
A-8260B-		1-	680-45329-		05/23/2006 0125-	1.00 -	SAV-	JV-
A-8260B-		1-	680-45335-		05/23/2006 1600-	1.00 -	SAV-	MA-
A-8260B-		1-	680-45462-		05/23/2006 1828-	1.00 -	SAV-	MA-

LOGIN SAMPLE RECEIPT CHECK LIST1

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16530-1-
Sdg Number: SIO39I

Login Number: 16530 1

Question1	T/F/NA1	CommentP
Radioactivity either was not measured or, if measured, is at or below background-	NA-	
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.-	NA-	
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 REPORTF

Job Number: 680-16600-1d

SDG Number: SIO40d

Job Description: Solutia-Indian Orchard SoilsF

or:d
Blasland, Bouck & Lee, Inc. (BBL)F
6723 Towpath Road, Box 66d
Syracuse, NY 13214F

Attention: Ms. Caron KollF

Lidya GuliziaF
Project Manager IF
lgulizia@stl-inc.comd

06/09/2006d

cc:d Mr. Roy HartF

Project Manager: Lidya GuliziaF

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any d exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, d without the written approval of the laboratory. All questions regarding this test report should be directed to the STL Project Manager d who signed this test report.F

Case Narrative for job: 680-J16600-1v

Client:S Blasland, Bouck & Lee, Inc. (BBL)S
Date:S 06/09/2006S

Volatile GC/MS DepartmentA

Other Deficiency

8260-Sample results contain a 'J'-value (estimated result) for Toluene. It is suspected that the laboratory received a S comtaminated lot of VOA vials, and these vials were used for medium level analysis.S

ffected ItemsA

680-16600-D-3-Au

Batch:S 680-45491u
Method:u 680-8260BS

680-16600-D-4-Au

Batch:S 680-45491u
Method:u 680-8260BS

680-16600-D-5-Au

Batch:S 680-45491u
Method:u 680-8260BS

680-16600-D-6-Au

Batch:S 680-45491u
Method:u 680-8260BS

680-16600-D-9-Au

Batch:S 680-45491u
Method:u 680-8260BS

680-16600-D-11-Au

Batch:S 680-45491u
Method:u 680-8260BS

Case Narrative for job: 680-J16600-1v

Client:S Blasland, Bouck & Lee, Inc. (BBL)S
Date:S 06/09/2006S

Volatile GC/MS DepartmentA

Other Deficiency

8260-Sample results contain a 'J'-value (estimated result) for Toluene. It is suspected that the laboratory received a S comtaminated lot of VOA vials, and these vials were used for medium level analysis.S

ffected ItemsA

680-16600-D-2-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-4-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-5-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-6-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-8-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-11-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-3-Au

Batch:S 680-45614:
Method:u 680-8260BS

680-16600-D-11-Au

Batch:S 680-45614:
Method:u 680-8260BS

METHOD SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL)S

Job Number: 680-16600-1-
Sdg Number: SIO40-

DescriptionB	Lab LocationB	MethodB	Preparation MethodB
Matrix:F SolidB			
Volatile Organic Compounds by GC/MS-	STL-SAV-	SW846 8260B-	
Closed System Purge & Trap/Laboratory -	STL-SAV-		SW846 5035-
Percent Moisture-	STL-SAV-	EPA PercentMoisture-	
Matrix:F WaterF			
Volatile Organic Compounds by GC/MS-	STL-SAV-	SW846 8260B-	
Purge-and-Trap-	STL-SAV-		SW846 5030B-

LAB REFERENCES:F

STL-SAV = STL-Savannah-

METHOD REFERENCES:F

EPA - US Environmental Protection Agency-

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 a
And Its Updates.a

METHOD / ANALYST SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Method	Analyst	Analyst ID
SW846 8260B-	Waldorf, Jonathan-	JW-
SW846 8260B-	Young, Myron-	MY-

SAMPLE SUMMARY

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time B Sampled	Date/Time B Received
680-16600-1-	SB-132 (6-8')-	Solid-	05/11/2006 0910-	05/13/2006 0915-
680-16600-2-	SB-133 (6-8')-	Solid-	05/11/2006 0940-	05/13/2006 0915-
680-16600-3-	SB-134 (6-8')-	Solid-	05/11/2006 1000-	05/13/2006 0915-
680-16600-3MSMS-	SB-134 (6-8') MS-	Solid-	05/11/2006 1000-	05/13/2006 0915-
680-16600-3MSDMS-	SB-134 (6-8') MSD	Solid-	05/11/2006 1000-	05/13/2006 0915-
680-16600-4-	SB-135 (6-8')-	Solid-	05/11/2006 1020-	05/13/2006 0915-
680-16600-5-	SB-136 (6-8')-	Solid-	05/11/2006 1050-	05/13/2006 0915-
680-16600-6-	SB-137 (6-8')-	Solid-	05/11/2006 1120-	05/13/2006 0915-
680-16600-7-	SB-138 (6-8')-	Solid-	05/11/2006 1135-	05/13/2006 0915-
680-16600-8-	SB-139 (6-8')-	Solid-	05/11/2006 1200-	05/13/2006 0915-
680-16600-9-	SB-140 (6-8')-	Solid-	05/11/2006 1230-	05/13/2006 0915-
680-16600-10-	SB-141 (6-8')-	Solid-	05/11/2006 1300-	05/13/2006 0915-
680-16600-11FD	SB-DUP-1-	Solid-	05/11/2006 0000-	05/13/2006 0915-
680-16600-12TB-	Trip Blank-	Water-	05/11/2006 0000-	05/13/2006 0915-

SAMPLE RESULTST

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:u SB-132 (6-8')r

Lab Sample ID:- 680-16600-1-
Client Matrix:- Solid- % Moisture:- 5.9

Date Sampled:- 05/11/2006 0910-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 1.0-
Date Analyzed:- 05/25/2006 1722d
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45611-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0072.da
Initial Weight/Volume:- 5.2 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		5.1-	U-	0.72d	5.1-
Bromomethane-		5.1-	U-	1.3-	5.1-
Vinyl chloride-		5.1-	U-	0.94-	5.1-
Chloroethane-		5.1-	U-	1.5-	5.1-
Methylene Chloride-		5.1-	U-	1.6-	5.1-
Acetone-		51-	U-	3.1-	51-
Carbon disulfide-		5.1-	U-	1.0-	5.1-
1,1-Dichloroethene-		5.1-	U-	1.1-	5.1-
1,1-Dichloroethane-		5.1-	U-	1.0-	5.1-
Chloroform-		5.1-	U-	0.90-	5.1-
1,2-Dichloroethane-		5.1-	U-	1.2d	5.1-
Methyl Ethyl Ketone-		26-	U-	4.1-	26-
1,1,1-Trichloroethane-		5.1-	U-	0.87-	5.1-
Carbon tetrachloride-		5.1-	U-	0.91-	5.1-
Dichlorobromomethane-		5.1-	U-	1.0-	5.1-
1,1,2,2-Tetrachloroethane-		5.1-	U-	1.0-	5.1-
1,2-Dichloropropane-		5.1-	U-	1.3-	5.1-
trans-1,3-Dichloropropene-		5.1-	U-	1.1-	5.1-
Trichloroethene-		5.1-	U-	1.2d	5.1-
Chlorodibromomethane-		5.1-	U-	1.1-	5.1-
1,1,2-Trichloroethane-		5.1-	U-	1.2d	5.1-
Benzene-		5.1-	U-	0.88-	5.1-
cis-1,3-Dichloropropene-		5.1-	U-	0.93-	5.1-
Bromoform-		5.1-	U-	2.2d	5.1-
2-Hexanone-		26-	U-	5.5-	26-
methyl isobutyl ketone-		26-	U-	5.9	26-
Tetrachloroethene-		5.1-	U-	1.0-	5.1-
Toluene-		5.1-	U-	1.0-	5.1-
Chlorobenzene-		5.1-	U-	0.71-	5.1-
Ethylbenzene-		5.1-	U-	0.89	5.1-
Styrene-		5.1-	U-	0.87-	5.1-
Xylenes, Total-		10-	U-	2.0-	10-
1,2-Dichloroethene, cis-, trans-		10-	U-	1.7-	10-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	91-	65 - 128-
4-Bromofluorobenzene-	87-	68 - 121-
Dibromofluoromethane-	102d	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-133 (6-8')r**

Lab Sample ID:- 680-16600-2d
Client Matrix:- Solid- % Moisture:- 13.5-

Date Sampled:- 05/11/2006 0940-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/25/2006 1154-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0058.da
Initial Weight/Volume:- 4.6 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		250-	U-	35-	250-
Bromomethane-		250-	U-	65-	250-
Vinyl chloride-		180000-	E-	46-	250-
Chloroethane-		250-	U-	75-	250-
Methylene Chloride-		250-	U-	80-	250-
Acetone-		800-	J B-	150-	2500-
Carbon disulfide-		250-	U-	50-	250-
1,1-Dichloroethene-		320-		55-	250-
1,1-Dichloroethane-		250-	U-	50-	250-
Chloroform-		230-	J-	44-	250-
1,2-Dichloroethane-		100000-	E-	60-	250-
Methyl Ethyl Ketone-		1300-	U-	200-	1300-
1,1,1-Trichloroethane-		250-	U-	43-	250-
Carbon tetrachloride-		250-	U-	45-	250-
Dichlorobromomethane-		250-	U-	50-	250-
1,1,2,2-Tetrachloroethane-		250-	U-	50-	250-
1,2-Dichloropropane-		250-	U-	65-	250-
trans-1,3-Dichloropropene-		250-	U-	55-	250-
Trichloroethene-		230-	J-	60-	250-
Chlorodibromomethane-		250-	U-	55-	250-
1,1,2-Trichloroethane-		250-	U-	60-	250-
Benzene-		250-	U-	43-	250-
cis-1,3-Dichloropropene-		250-	U-	46-	250-
Bromoform-		250-	U-	110-	250-
2-Hexanone-		1300-	U-	270-	1300-
methyl isobutyl ketone-		1300-	U-	290-	1300-
Tetrachloroethene-		250-	U-	50-	250-
Toluene-		100-	J-	50-	250-
Chlorobenzene-		250-	U-	35-	250-
Ethylbenzene-		80-	J-	44-	250-
Styrene-		250-	U-	43-	250-
Xylenes, Total-		180-	J-	100-	500-
1,2-Dichloroethene, cis-, trans-		100000-	E-	85-	500-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	57-	*d	65 - 128-
4-Bromofluorobenzene-	50-	*d	68 - 121-
Dibromofluoromethane-	71-		66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-133 (6-8')r**

Lab Sample ID:- 680-16600-2d
Client Matrix:- Solid- % Moisture:- 13.5-

Date Sampled:- 05/11/2006 0940-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 2000-
Date Analyzed:- 05/25/2006 1541-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0067.da
Initial Weight/Volume:- 4.6 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		13000-	U-	1800-	13000-
Bromomethane-		13000-	U-	3300-	13000-
Vinyl chloride-		320000-	D-	2300-	13000-
Chloroethane-		13000-	U-	3800-	13000-
Methylene Chloride-		13000-	U-	4000-	13000-
Acetone-		130000-	U-	7500-	130000-
Carbon disulfide-		13000-	U-	2500-	13000-
1,1-Dichloroethene-		13000-	U-	2800-	13000-
1,1-Dichloroethane-		13000-	U-	2500-	13000-
Chloroform-		13000-	U-	2200-	13000-
1,2-Dichloroethane-		120000-	D-	3000-	13000-
Methyl Ethyl Ketone-		63000-	U-	10000-	63000-
1,1,1-Trichloroethane-		13000-	U-	2100-	13000-
Carbon tetrachloride-		13000-	U-	2200-	13000-
Dichlorobromomethane-		13000-	U-	2500-	13000-
1,1,2,2-Tetrachloroethane-		13000-	U-	2500-	13000-
1,2-Dichloropropane-		13000-	U-	3300-	13000-
trans-1,3-Dichloropropene-		13000-	U-	2800-	13000-
Trichloroethene-		13000-	U-	3000-	13000-
Chlorodibromomethane-		13000-	U-	2800-	13000-
1,1,2-Trichloroethane-		13000-	U-	3000-	13000-
Benzene-		13000-	U-	2200-	13000-
cis-1,3-Dichloropropene-		13000-	U-	2300-	13000-
Bromoform-		13000-	U-	5500-	13000-
2-Hexanone-		63000-	U-	14000-	63000-
methyl isobutyl ketone-		63000-	U-	15000-	63000-
Tetrachloroethene-		13000-	U-	2500-	13000-
Toluene-		13000-	U-	2500-	13000-
Chlorobenzene-		13000-	U-	1700-	13000-
Ethylbenzene-		13000-	U-	2200-	13000-
Styrene-		13000-	U-	2100-	13000-
Xylenes, Total-		25000-	U-	5000-	25000-
1,2-Dichloroethene, cis-, trans-		120000-	D-	4300-	25000-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	0-	D-	65 - 128-
4-Bromofluorobenzene-	0-	D-	68 - 121-
Dibromofluoromethane-	0-	D-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-134 (6-8')r**

Lab Sample ID:- 680-16600-3-
Client Matrix:- Solid- % Moisture:- 13.1-

Date Sampled:- 05/11/2006 1000-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1654-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0046.da
Initial Weight/Volume:- 4.5 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		260-	U-	36-	260-
Bromomethane-		260-	U-	66-	260-
Vinyl chloride-		210000-	E-	47-	260-
Chloroethane-		260-	U-	77-	260-
Methylene Chloride-		260-	U-	82d	260-
Acetone-		2600-	U-	150-	2600-
Carbon disulfide-		260-	U-	51-	260-
1,1-Dichloroethene-		340-		56-	260-
1,1-Dichloroethane-		260-	U-	51-	260-
Chloroform-		260-	U-	45-	260-
1,2-Dichloroethane-		150-	J-	61-	260-
Methyl Ethyl Ketone-		1300-	U-	200-	1300-
1,1,1-Trichloroethane-		260-	U-	43-	260-
Carbon tetrachloride-		260-	U-	46-	260-
Dichlorobromomethane-		260-	U-	51-	260-
1,1,2,2-Tetrachloroethane-		260-	U-	51-	260-
1,2-Dichloropropane-		260-	U-	66-	260-
trans-1,3-Dichloropropene-		260-	U-	56-	260-
Trichloroethene-		210-	J-	61-	260-
Chlorodibromomethane-		260-	U-	56-	260-
1,1,2-Trichloroethane-		260-	U-	61-	260-
Benzene-		260-	U-	44-	260-
cis-1,3-Dichloropropene-		260-	U-	47-	260-
Bromoform-		260-	U-	110-	260-
2-Hexanone-		1300-	U-	280-	1300-
methyl isobutyl ketone-		1300-	U-	300-	1300-
Tetrachloroethene-		260-	U-	51-	260-
Toluene-		55-	J-	51-	260-
Chlorobenzene-		260-	U-	35-	260-
Ethylbenzene-		100-	J-	44-	260-
Styrene-		260-	U-	43-	260-
Xylenes, Total-		360-	J-	100-	510-
1,2-Dichloroethene, cis-, trans-		120000-	E-	87-	510-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	107-	65 - 128-
4-Bromofluorobenzene-	91-	68 - 121-
Dibromofluoromethane-	98-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-134 (6-8')r**

Lab Sample ID:- 680-16600-3-
Client Matrix:- Solid- % Moisture:- 13.1-

Date Sampled:- 05/11/2006 1000-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 5000-
Date Analyzed:- 05/25/2006 1601-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0068.da
Initial Weight/Volume:- 4.5 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		32000-	U-	4500-	32000-
Bromomethane-		32000-	U-	8300-	32000-
Vinyl chloride-		310000-	D-	5900-	32000-
Chloroethane-		32000-	U-	9600-	32000-
Methylene Chloride-		32000-	U-	10000-	32000-
Acetone-		320000-	U-	19000-	320000-
Carbon disulfide-		32000-	U-	6400-	32000-
1,1-Dichloroethene-		32000-	U-	7000-	32000-
1,1-Dichloroethane-		32000-	U-	6400-	32000-
Chloroform-		32000-	U-	5600-	32000-
1,2-Dichloroethane-		32000-	U-	7700-	32000-
Methyl Ethyl Ketone-		160000-	U-	26000-	160000-
1,1,1-Trichloroethane-		32000-	U-	5400-	32000-
Carbon tetrachloride-		32000-	U-	5700-	32000-
Dichlorobromomethane-		32000-	U-	6400-	32000-
1,1,2,2-Tetrachloroethane-		32000-	U-	6400-	32000-
1,2-Dichloropropane-		32000-	U-	8300-	32000-
trans-1,3-Dichloropropene-		32000-	U-	7000-	32000-
Trichloroethene-		32000-	U-	7700-	32000-
Chlorodibromomethane-		32000-	U-	7000-	32000-
1,1,2-Trichloroethane-		32000-	U-	7700-	32000-
Benzene-		32000-	U-	5500-	32000-
cis-1,3-Dichloropropene-		32000-	U-	5800-	32000-
Bromoform-		32000-	U-	14000-	32000-
2-Hexanone-		160000-	U-	35000-	160000-
methyl isobutyl ketone-		160000-	U-	37000-	160000-
Tetrachloroethene-		32000-	U-	6400-	32000-
Toluene-		13000-	JD-	6400-	32000-
Chlorobenzene-		32000-	U-	4400-	32000-
Ethylbenzene-		32000-	U-	5600-	32000-
Styrene-		32000-	U-	5400-	32000-
Xylenes, Total-		64000-	U-	13000-	64000-
1,2-Dichloroethene, cis-, trans-		150000-	D-	11000-	64000-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	0-	D-	65 - 128-
4-Bromofluorobenzene-	0-	D-	68 - 121-
Dibromofluoromethane-	0-	D-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-135 (6-8')r**

Lab Sample ID:- 680-16600-4-
Client Matrix:- Solid- % Moisture:- 13.3-

Date Sampled:- 05/11/2006 1020-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1755-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- I0049.da
Initial Weight/Volume:- 5.8 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		200-	U-	28-	200-
Bromomethane-		200-	U-	52d	200-
Vinyl chloride-		230-		37-	200-
Chloroethane-		200-	U-	60-	200-
Methylene Chloride-		200-	U-	64-	200-
Acetone-		660-	J B-	120-	2000-
Carbon disulfide-		200-	U-	40-	200-
1,1-Dichloroethene-		200-	U-	44-	200-
1,1-Dichloroethane-		200-	U-	40-	200-
Chloroform-		200-	U-	35-	200-
1,2-Dichloroethane-		170-	J-	48-	200-
Methyl Ethyl Ketone-		990-	U-	160-	990-
1,1,1-Trichloroethane-		200-	U-	34-	200-
Carbon tetrachloride-		200-	U-	35-	200-
Dichlorobromomethane-		200-	U-	40-	200-
1,1,2,2-Tetrachloroethane-		200-	U-	40-	200-
1,2-Dichloropropane-		200-	U-	52d	200-
trans-1,3-Dichloropropene-		200-	U-	44-	200-
Trichloroethene-		120-	J-	48-	200-
Chlorodibromomethane-		200-	U-	44-	200-
1,1,2-Trichloroethane-		200-	U-	48-	200-
Benzene-		200-	U-	34-	200-
cis-1,3-Dichloropropene-		200-	U-	36-	200-
Bromoform-		200-	U-	87-	200-
2-Hexanone-		990-	U-	210-	990-
methyl isobutyl ketone-		990-	U-	230-	990-
Tetrachloroethene-		200-	U-	40-	200-
Toluene-		130-	J-	40-	200-
Chlorobenzene-		200-	U-	27-	200-
Ethylbenzene-		23000-	E-	35-	200-
Styrene-		320-		34-	200-
Xylenes, Total-		400-	U-	80-	400-
1,2-Dichloroethene, cis-, trans-		130-	J-	68-	400-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	117-	65 - 128-
4-Bromofluorobenzene-	108-	68 - 121-
Dibromofluoromethane-	108-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-135 (6-8')r**

Lab Sample ID:- 680-16600-4-
Client Matrix:- Solid- % Moisture:- 13.3-

Date Sampled:- 05/11/2006 1020-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 200-
Date Analyzed:- 05/25/2006 1235-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0060.da
Initial Weight/Volume:- 5.8 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		990-	U-	140-	990-
Bromomethane-		990-	U-	260-	990-
Vinyl chloride-		990-	U-	180-	990-
Chloroethane-		990-	U-	300-	990-
Methylene Chloride-		990-	U-	320-	990-
Acetone-		2200-	JD B-	600-	9900-
Carbon disulfide-		990-	U-	200-	990-
1,1-Dichloroethene-		990-	U-	220-	990-
1,1-Dichloroethane-		990-	U-	200-	990-
Chloroform-		990-	U-	170-	990-
1,2-Dichloroethane-		990-	U-	240-	990-
Methyl Ethyl Ketone-		5000-	U-	800-	5000-
1,1,1-Trichloroethane-		990-	U-	170-	990-
Carbon tetrachloride-		990-	U-	180-	990-
Dichlorobromomethane-		990-	U-	200-	990-
1,1,2,2-Tetrachloroethane-		990-	U-	200-	990-
1,2-Dichloropropane-		990-	U-	260-	990-
trans-1,3-Dichloropropene-		990-	U-	220-	990-
Trichloroethene-		990-	U-	240-	990-
Chlorodibromomethane-		990-	U-	220-	990-
1,1,2-Trichloroethane-		990-	U-	240-	990-
Benzene-		990-	U-	170-	990-
cis-1,3-Dichloropropene-		990-	U-	180-	990-
Bromoform-		990-	U-	440-	990-
2-Hexanone-		5000-	U-	1100-	5000-
methyl isobutyl ketone-		5000-	U-	1200-	5000-
Tetrachloroethene-		990-	U-	200-	990-
Toluene-		410-	JD-	200-	990-
Chlorobenzene-		990-	U-	140-	990-
Ethylbenzene-		29000-	D-	170-	990-
Styrene-		300-	JD-	170-	990-
Xylenes, Total-		2000-	U-	400-	2000-
1,2-Dichloroethene, cis-, trans-		2000-	U-	340-	2000-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	99	65 - 128-
4-Bromofluorobenzene-	81-	68 - 121-
Dibromofluoromethane-	96-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-136 (6-8')r**

Lab Sample ID:- 680-16600-5-
Client Matrix:- Solid- % Moisture:- 24.9

Date Sampled:- 05/11/2006 1050-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1815-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0050.da
Initial Weight/Volume:- 5.3 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		250-	U-	35-	250-
Bromomethane-		250-	U-	65-	250-
Vinyl chloride-		98000-	E-	46-	250-
Chloroethane-		250-	U-	75-	250-
Methylene Chloride-		250-	U-	80-	250-
Acetone-		810-	J B-	150-	2500-
Carbon disulfide-		250-	U-	50-	250-
1,1-Dichloroethene-		160-	J-	55-	250-
1,1-Dichloroethane-		250-	U-	50-	250-
Chloroform-		250-	U-	44-	250-
1,2-Dichloroethane-		120-	J-	60-	250-
Methyl Ethyl Ketone-		1300-	U-	200-	1300-
1,1,1-Trichloroethane-		250-	U-	43-	250-
Carbon tetrachloride-		250-	U-	45-	250-
Dichlorobromomethane-		250-	U-	50-	250-
1,1,2,2-Tetrachloroethane-		250-	U-	50-	250-
1,2-Dichloropropane-		250-	U-	65-	250-
trans-1,3-Dichloropropene-		250-	U-	55-	250-
Trichloroethene-		2700-		60-	250-
Chlorodibromomethane-		250-	U-	55-	250-
1,1,2-Trichloroethane-		250-	U-	60-	250-
Benzene-		250-	U-	43-	250-
cis-1,3-Dichloropropene-		250-	U-	46-	250-
Bromoform-		250-	U-	110-	250-
2-Hexanone-		1300-	U-	270-	1300-
methyl isobutyl ketone-		1300-	U-	290-	1300-
Tetrachloroethene-		250-	U-	50-	250-
Toluene-		130-	J-	50-	250-
Chlorobenzene-		250-	U-	35-	250-
Ethylbenzene-		230-	J-	44-	250-
Styrene-		250-	U-	43-	250-
Xylenes, Total-		140-	J-	100-	500-
1,2-Dichloroethene, cis-, trans-		68000-	E-	85-	500-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	95-	65 - 128-
4-Bromofluorobenzene-	86-	68 - 121-
Dibromofluoromethane-	93-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-136 (6-8')r**

Lab Sample ID:- 680-16600-5-
Client Matrix:- Solid- % Moisture:- 24.9

Date Sampled:- 05/11/2006 1050-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 2000-
Date Analyzed:- 05/25/2006 1255-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0061.da
Initial Weight/Volume:- 5.3 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		13000-	U-	1800-	13000-
Bromomethane-		13000-	U-	3300-	13000-
Vinyl chloride-		120000-	D-	2300-	13000-
Chloroethane-		13000-	U-	3800-	13000-
Methylene Chloride-		13000-	U-	4000-	13000-
Acetone-		130000-	U-	7500-	130000-
Carbon disulfide-		13000-	U-	2500-	13000-
1,1-Dichloroethene-		13000-	U-	2800-	13000-
1,1-Dichloroethane-		13000-	U-	2500-	13000-
Chloroform-		13000-	U-	2200-	13000-
1,2-Dichloroethane-		13000-	U-	3000-	13000-
Methyl Ethyl Ketone-		63000-	U-	10000-	63000-
1,1,1-Trichloroethane-		13000-	U-	2100-	13000-
Carbon tetrachloride-		13000-	U-	2200-	13000-
Dichlorobromomethane-		13000-	U-	2500-	13000-
1,1,2,2-Tetrachloroethane-		13000-	U-	2500-	13000-
1,2-Dichloropropane-		13000-	U-	3300-	13000-
trans-1,3-Dichloropropene-		13000-	U-	2800-	13000-
Trichloroethene-		13000-	U-	3000-	13000-
Chlorodibromomethane-		13000-	U-	2800-	13000-
1,1,2-Trichloroethane-		13000-	U-	3000-	13000-
Benzene-		13000-	U-	2200-	13000-
cis-1,3-Dichloropropene-		13000-	U-	2300-	13000-
Bromoform-		13000-	U-	5500-	13000-
2-Hexanone-		63000-	U-	14000-	63000-
methyl isobutyl ketone-		63000-	U-	15000-	63000-
Tetrachloroethene-		13000-	U-	2500-	13000-
Toluene-		6300-	JD-	2500-	13000-
Chlorobenzene-		13000-	U-	1700-	13000-
Ethylbenzene-		13000-	U-	2200-	13000-
Styrene-		13000-	U-	2100-	13000-
Xylenes, Total-		25000-	U-	5000-	25000-
1,2-Dichloroethene, cis-, trans-		86000-	D-	4300-	25000-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	0-	D-	65 - 128-
4-Bromofluorobenzene-	0-	D-	68 - 121-
Dibromofluoromethane-	0-	D-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-137 (6-8')r**

Lab Sample ID:- 680-16600-6-
Client Matrix:- Solid- % Moisture:- 19.6-

Date Sampled:- 05/11/2006 1120-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1836-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0051.da
Initial Weight/Volume:- 4.8 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		260-	U-	36-	260-
Bromomethane-		260-	U-	67-	260-
Vinyl chloride-		97000-	E-	48-	260-
Chloroethane-		260-	U-	78-	260-
Methylene Chloride-		260-	U-	83-	260-
Acetone-		710-	J B-	160-	2600-
Carbon disulfide-		260-	U-	52d	260-
1,1-Dichloroethene-		180-	J-	57-	260-
1,1-Dichloroethane-		260-	U-	52d	260-
Chloroform-		260-	U-	46-	260-
1,2-Dichloroethane-		110-	J-	62d	260-
Methyl Ethyl Ketone-		1300-	U-	210-	1300-
1,1,1-Trichloroethane-		260-	U-	44-	260-
Carbon tetrachloride-		260-	U-	46-	260-
Dichlorobromomethane-		260-	U-	52d	260-
1,1,2,2-Tetrachloroethane-		260-	U-	52d	260-
1,2-Dichloropropane-		260-	U-	67-	260-
trans-1,3-Dichloropropene-		260-	U-	57-	260-
Trichloroethene-		13000-	E-	62d	260-
Chlorodibromomethane-		260-	U-	57-	260-
1,1,2-Trichloroethane-		260-	U-	62d	260-
Benzene-		260-	U-	45-	260-
cis-1,3-Dichloropropene-		260-	U-	47-	260-
Bromoform-		260-	U-	110-	260-
2-Hexanone-		1300-	U-	280-	1300-
methyl isobutyl ketone-		1300-	U-	300-	1300-
Tetrachloroethene-		260-	U-	52d	260-
Toluene-		70-	J-	52d	260-
Chlorobenzene-		260-	U-	36-	260-
Ethylbenzene-		110-	J-	45-	260-
Styrene-		260-	U-	44-	260-
Xylenes, Total-		520-	U-	100-	520-
1,2-Dichloroethene, cis-, trans-		70000-	E-	88-	520-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	91-	65 - 128-
4-Bromofluorobenzene-	82d	68 - 121-
Dibromofluoromethane-	89	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-137 (6-8')r**

Lab Sample ID:- 680-16600-6-
Client Matrix:- Solid- % Moisture:- 19.6-

Date Sampled:- 05/11/2006 1120-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 2000-
Date Analyzed:- 05/25/2006 1316-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0062.da
Initial Weight/Volume:- 4.8 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		13000-	U-	1800-	13000-
Bromomethane-		13000-	U-	3400-	13000-
Vinyl chloride-		100000-	D-	2400-	13000-
Chloroethane-		13000-	U-	3900-	13000-
Methylene Chloride-		13000-	U-	4100-	13000-
Acetone-		37000-	JD B-	7800-	130000-
Carbon disulfide-		13000-	U-	2600-	13000-
1,1-Dichloroethene-		13000-	U-	2800-	13000-
1,1-Dichloroethane-		13000-	U-	2600-	13000-
Chloroform-		13000-	U-	2300-	13000-
1,2-Dichloroethane-		13000-	U-	3100-	13000-
Methyl Ethyl Ketone-		65000-	U-	10000-	65000-
1,1,1-Trichloroethane-		13000-	U-	2200-	13000-
Carbon tetrachloride-		13000-	U-	2300-	13000-
Dichlorobromomethane-		13000-	U-	2600-	13000-
1,1,2,2-Tetrachloroethane-		13000-	U-	2600-	13000-
1,2-Dichloropropane-		13000-	U-	3400-	13000-
trans-1,3-Dichloropropene-		13000-	U-	2800-	13000-
Trichloroethene-		16000-	D-	3100-	13000-
Chlorodibromomethane-		13000-	U-	2800-	13000-
1,1,2-Trichloroethane-		13000-	U-	3100-	13000-
Benzene-		13000-	U-	2200-	13000-
cis-1,3-Dichloropropene-		13000-	U-	2400-	13000-
Bromoform-		13000-	U-	5700-	13000-
2-Hexanone-		65000-	U-	14000-	65000-
methyl isobutyl ketone-		65000-	U-	15000-	65000-
Tetrachloroethene-		13000-	U-	2600-	13000-
Toluene-		5700-	JD-	2600-	13000-
Chlorobenzene-		13000-	U-	1800-	13000-
Ethylbenzene-		13000-	U-	2300-	13000-
Styrene-		13000-	U-	2200-	13000-
Xylenes, Total-		26000-	U-	5200-	26000-
1,2-Dichloroethene, cis-, trans-		87000-	D-	4400-	26000-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	0-	D-	65 - 128-
4-Bromofluorobenzene-	0-	D-	68 - 121-
Dibromofluoromethane-	0-	D-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-138 (6-8')r**

Lab Sample ID:- 680-16600-7-
Client Matrix:- Solid- % Moisture:- 7.2d

Date Sampled:- 05/11/2006 1135-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 1.0-
Date Analyzed:- 05/24/2006 1448-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45490-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0044.da
Initial Weight/Volume:- 6.0 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		4.5-	U-	0.63-	4.5-
Bromomethane-		4.5-	U-	1.2d	4.5-
Vinyl chloride-		24- -		0.83-	4.5-
Chloroethane-		3.1-	J-	1.3-	4.5-
Methylene Chloride-		4.5-	U-	1.4-	4.5-
Acetone-		45-	U-	2.7-	45-
Carbon disulfide-		2.6-	J-	0.90-	4.5-
1,1-Dichloroethene-		4.5-	U-	0.99	4.5-
1,1-Dichloroethane-		4.5-	U-	0.90-	4.5-
Chloroform-		4.5-	U-	0.79	4.5-
1,2-Dichloroethane-		22d		1.1-	4.5-
Methyl Ethyl Ketone-		22d	U-	3.6-	22d
1,1,1-Trichloroethane-		4.5-	U-	0.76-	4.5-
Carbon tetrachloride-		4.5-	U-	0.80-	4.5-
Dichlorobromomethane-		4.5-	U-	0.90-	4.5-
1,1,2,2-Tetrachloroethane-		4.5-	U-	0.90-	4.5-
1,2-Dichloropropane-		4.5-	U-	1.2d	4.5-
trans-1,3-Dichloropropene-		4.5-	U-	0.99	4.5-
Trichloroethene-		4.5-	U-	1.1-	4.5-
Chlorodibromomethane-		4.5-	U-	0.99	4.5-
1,1,2-Trichloroethane-		4.5-	U-	1.1-	4.5-
Benzene-		4.5-	U-	0.77-	4.5-
cis-1,3-Dichloropropene-		4.5-	U-	0.82d	4.5-
Bromoform-		4.5-	U-	2.0-	4.5-
2-Hexanone-		22d	U-	4.8-	22d
methyl isobutyl ketone-		22d	U-	5.2d	22d
Tetrachloroethene-		14-		0.90-	4.5-
Toluene-		4.5-	U-	0.90-	4.5-
Chlorobenzene-		4.5-	U-	0.62d	4.5-
Ethylbenzene-		4.5-	U-	0.78-	4.5-
Styrene-		4.5-	U-	0.76-	4.5-
Xylenes, Total-		9.0-	U-	1.8-	9.0-
1,2-Dichloroethene, cis-, trans-		9.0-	U-	1.5-	9.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	100-	65 - 128-
4-Bromofluorobenzene-	89	68 - 121-
Dibromofluoromethane-	104-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-139 (6-8')r**

Lab Sample ID:- 680-16600-8-
Client Matrix:- Solid- % Moisture:- 15.1-

Date Sampled:- 05/11/2006 1200-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1856-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0052.da
Initial Weight/Volume:- 5.7 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		210-	U-	29	210-
Bromomethane-		210-	U-	54-	210-
Vinyl chloride-		150000-	E-	38-	210-
Chloroethane-		210-	U-	62d	210-
Methylene Chloride-		210-	U-	66-	210-
Acetone-		490-	J B-	120-	2100-
Carbon disulfide-		210-	U-	41-	210-
1,1-Dichloroethene-		280-		45-	210-
1,1-Dichloroethane-		210-	U-	41-	210-
Chloroform-		210-	U-	36-	210-
1,2-Dichloroethane-		150-	J-	50-	210-
Methyl Ethyl Ketone-		1000-	U-	170-	1000-
1,1,1-Trichloroethane-		210-	U-	35-	210-
Carbon tetrachloride-		210-	U-	37-	210-
Dichlorobromomethane-		210-	U-	41-	210-
1,1,2,2-Tetrachloroethane-		210-	U-	41-	210-
1,2-Dichloropropane-		210-	U-	54-	210-
trans-1,3-Dichloropropene-		210-	U-	45-	210-
Trichloroethene-		260-		50-	210-
Chlorodibromomethane-		210-	U-	45-	210-
1,1,2-Trichloroethane-		210-	U-	50-	210-
Benzene-		210-	U-	36-	210-
cis-1,3-Dichloropropene-		210-	U-	38-	210-
Bromoform-		210-	U-	91-	210-
2-Hexanone-		1000-	U-	220-	1000-
methyl isobutyl ketone-		1000-	U-	240-	1000-
Tetrachloroethene-		210-	U-	41-	210-
Toluene-		320-		41-	210-
Chlorobenzene-		210-	U-	28-	210-
Ethylbenzene-		6100-		36-	210-
Styrene-		97-	J-	35-	210-
Xylenes, Total-		130-	J-	83-	410-
1,2-Dichloroethene, cis-, trans-		91000-	E-	70-	410-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	93-	65 - 128-
4-Bromofluorobenzene-	83-	68 - 121-
Dibromofluoromethane-	88-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-139 (6-8')r**

Lab Sample ID:- 680-16600-8-
Client Matrix:- Solid- % Moisture:- 15.1-

Date Sampled:- 05/11/2006 1200-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 5000-
Date Analyzed:- 05/25/2006 1417-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0063.da
Initial Weight/Volume:- 5.7 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		26000-	U-	3600-	26000-
Bromomethane-		26000-	U-	6700-	26000-
Vinyl chloride-		480000-	D-	4700-	26000-
Chloroethane-		26000-	U-	7700-	26000-
Methylene Chloride-		26000-	U-	8300-	26000-
Acetone-		57000-	JD B-	15000-	260000-
Carbon disulfide-		26000-	U-	5200-	26000-
1,1-Dichloroethene-		26000-	U-	5700-	26000-
1,1-Dichloroethane-		26000-	U-	5200-	26000-
Chloroform-		26000-	U-	4500-	26000-
1,2-Dichloroethane-		26000-	U-	6200-	26000-
Methyl Ethyl Ketone-		130000-	U-	21000-	130000-
1,1,1-Trichloroethane-		26000-	U-	4400-	26000-
Carbon tetrachloride-		26000-	U-	4600-	26000-
Dichlorobromomethane-		26000-	U-	5200-	26000-
1,1,2,2-Tetrachloroethane-		26000-	U-	5200-	26000-
1,2-Dichloropropane-		26000-	U-	6700-	26000-
trans-1,3-Dichloropropene-		26000-	U-	5700-	26000-
Trichloroethene-		26000-	U-	6200-	26000-
Chlorodibromomethane-		26000-	U-	5700-	26000-
1,1,2-Trichloroethane-		26000-	U-	6200-	26000-
Benzene-		26000-	U-	4400-	26000-
cis-1,3-Dichloropropene-		26000-	U-	4700-	26000-
Bromoform-		26000-	U-	11000-	26000-
2-Hexanone-		130000-	U-	28000-	130000-
methyl isobutyl ketone-		130000-	U-	30000-	130000-
Tetrachloroethene-		26000-	U-	5200-	26000-
Toluene-		6200-	JD-	5200-	26000-
Chlorobenzene-		26000-	U-	3600-	26000-
Ethylbenzene-		9800-	JD-	4500-	26000-
Styrene-		26000-	U-	4400-	26000-
Xylenes, Total-		52000-	U-	10000-	52000-
1,2-Dichloroethene, cis-, trans-		150000-	D-	8800-	52000-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	0-	D-	65 - 128-
4-Bromofluorobenzene-	0-	D-	68 - 121-
Dibromofluoromethane-	0-	D-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-140 (6-8')r**

Lab Sample ID:- 680-16600-9
Client Matrix:- Solid- % Moisture:- 17.9

Date Sampled:- 05/11/2006 1230-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1917-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0053.da
Initial Weight/Volume:- 4.5 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		270-	U-	38-	270-
Bromomethane-		270-	U-	70-	270-
Vinyl chloride-		190000-	E-	50-	270-
Chloroethane-		270-	U-	81-	270-
Methylene Chloride-		270-	U-	87-	270-
Acetone-		990-	J B-	160-	2700-
Carbon disulfide-		270-	U-	54-	270-
1,1-Dichloroethene-		280-		60-	270-
1,1-Dichloroethane-		270-	U-	54-	270-
Chloroform-		170-	J-	48-	270-
1,2-Dichloroethane-		44000-	E-	65-	270-
Methyl Ethyl Ketone-		1400-	U-	220-	1400-
1,1,1-Trichloroethane-		270-	U-	46-	270-
Carbon tetrachloride-		270-	U-	48-	270-
Dichlorobromomethane-		270-	U-	54-	270-
1,1,2,2-Tetrachloroethane-		270-	U-	54-	270-
1,2-Dichloropropane-		270-	U-	70-	270-
trans-1,3-Dichloropropene-		270-	U-	60-	270-
Trichloroethene-		280-		65-	270-
Chlorodibromomethane-		270-	U-	60-	270-
1,1,2-Trichloroethane-		270-	U-	65-	270-
Benzene-		270-	U-	47-	270-
cis-1,3-Dichloropropene-		270-	U-	49	270-
Bromoform-		270-	U-	120-	270-
2-Hexanone-		1400-	U-	290-	1400-
methyl isobutyl ketone-		1400-	U-	310-	1400-
Tetrachloroethene-		270-	U-	54-	270-
Toluene-		77-	J-	54-	270-
Chlorobenzene-		270-	U-	37-	270-
Ethylbenzene-		220-	J-	47-	270-
Styrene-		270-	U-	46-	270-
Xylenes, Total-		840-		110-	540-
1,2-Dichloroethene, cis-, trans-		110000-	E-	92d	540-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	90-	65 - 128-
4-Bromofluorobenzene-	79	68 - 121-
Dibromofluoromethane-	84-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-140 (6-8')r**

Lab Sample ID:- 680-16600-9
Client Matrix:- Solid- % Moisture:- 17.9

Date Sampled:- 05/11/2006 1230-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 5000-
Date Analyzed:- 05/25/2006 1437-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0064.da
Initial Weight/Volume:- 4.5 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		34000-	U-	4700-	34000-
Bromomethane-		34000-	U-	8800-	34000-
Vinyl chloride-		550000-	D-	6200-	34000-
Chloroethane-		34000-	U-	10000-	34000-
Methylene Chloride-		34000-	U-	11000-	34000-
Acetone-		340000-	U-	20000-	340000-
Carbon disulfide-		34000-	U-	6800-	34000-
1,1-Dichloroethene-		34000-	U-	7400-	34000-
1,1-Dichloroethane-		34000-	U-	6800-	34000-
Chloroform-		34000-	U-	6000-	34000-
1,2-Dichloroethane-		52000-	D-	8100-	34000-
Methyl Ethyl Ketone-		170000-	U-	27000-	170000-
1,1,1-Trichloroethane-		34000-	U-	5800-	34000-
Carbon tetrachloride-		34000-	U-	6000-	34000-
Dichlorobromomethane-		34000-	U-	6800-	34000-
1,1,2,2-Tetrachloroethane-		34000-	U-	6800-	34000-
1,2-Dichloropropane-		34000-	U-	8800-	34000-
trans-1,3-Dichloropropene-		34000-	U-	7400-	34000-
Trichloroethene-		34000-	U-	8100-	34000-
Chlorodibromomethane-		34000-	U-	7400-	34000-
1,1,2-Trichloroethane-		34000-	U-	8100-	34000-
Benzene-		34000-	U-	5800-	34000-
cis-1,3-Dichloropropene-		34000-	U-	6200-	34000-
Bromoform-		34000-	U-	15000-	34000-
2-Hexanone-		170000-	U-	37000-	170000-
methyl isobutyl ketone-		170000-	U-	39000-	170000-
Tetrachloroethene-		34000-	U-	6800-	34000-
Toluene-		34000-	U-	6800-	34000-
Chlorobenzene-		34000-	U-	4700-	34000-
Ethylbenzene-		34000-	U-	5900-	34000-
Styrene-		34000-	U-	5800-	34000-
Xylenes, Total-		68000-	U-	14000-	68000-
1,2-Dichloroethene, cis-, trans-		160000-	D-	12000-	68000-

Surrogate-	%Rec-		Acceptance Limits-
Toluene-d8-	0-	D-	65 - 128-
4-Bromofluorobenzene-	0-	D-	68 - 121-
Dibromofluoromethane-	0-	D-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-141 (6-8')r**

Lab Sample ID:- 680-16600-10-
Client Matrix:- Solid- % Moisture:- 6.7-

Date Sampled:- 05/11/2006 1300-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 1.0-
Date Analyzed:- 05/25/2006 1743-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45611-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0073.da
Initial Weight/Volume:- 5.9 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		4.5-	U-	0.64-	4.5-
Bromomethane-		4.5-	U-	1.2d	4.5-
Vinyl chloride-		37-		0.84-	4.5-
Chloroethane-		4.5-	U-	1.4-	4.5-
Methylene Chloride-		4.5-	U-	1.5-	4.5-
Acetone-		45-	U-	2.7-	45-
Carbon disulfide-		4.5-	U-	0.91-	4.5-
1,1-Dichloroethene-		4.5-	U-	1.0-	4.5-
1,1-Dichloroethane-		4.5-	U-	0.91-	4.5-
Chloroform-		4.5-	U-	0.80-	4.5-
1,2-Dichloroethane-		3.2d	J- -	1.1-	4.5-
Methyl Ethyl Ketone-		23-	U-	3.6-	23-
1,1,1-Trichloroethane-		4.5-	U-	0.77-	4.5-
Carbon tetrachloride-		4.5-	U-	0.81-	4.5-
Dichlorobromomethane-		4.5-	U-	0.91-	4.5-
1,1,2,2-Tetrachloroethane-		4.5-	U-	0.91-	4.5-
1,2-Dichloropropane-		4.5-	U-	1.2d	4.5-
trans-1,3-Dichloropropene-		4.5-	U-	1.0-	4.5-
Trichloroethene-		21- -		1.1-	4.5-
Chlorodibromomethane-		4.5-	U-	1.0-	4.5-
1,1,2-Trichloroethane-		4.5-	U-	1.1-	4.5-
Benzene-		4.5-	U-	0.78-	4.5-
cis-1,3-Dichloropropene-		4.5-	U-	0.83-	4.5-
Bromoform-		4.5-	U-	2.0-	4.5-
2-Hexanone-		23-	U-	4.9	23-
methyl isobutyl ketone-		23-	U-	5.3-	23-
Tetrachloroethene-		1.4-	J-	0.91-	4.5-
Toluene-		4.5-	U-	0.91-	4.5-
Chlorobenzene-		4.5-	U-	0.63-	4.5-
Ethylbenzene-		4.5-	U-	0.79	4.5-
Styrene-		4.5-	U-	0.77-	4.5-
Xylenes, Total-		9.1-	U-	1.8-	9.1-
1,2-Dichloroethene, cis-, trans-		9.3-		1.5-	9.1-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	95-	65 - 128-
4-Bromofluorobenzene-	82d	68 - 121-
Dibromofluoromethane-	102d	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-DUP-1r**

Lab Sample ID:- 680-16600-11FD-
Client Matrix:- Solid- % Moisture:- 9.6-

Date Sampled:- 05/11/2006 0000-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 40-
Date Analyzed:- 05/24/2006 1957-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45491-
Prep Batch: 680-44482d

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0055.da
Initial Weight/Volume:- 5.9 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		190-	U-	26-	190-
Bromomethane-		190-	U-	49	190-
Vinyl chloride-		830-		35-	190-
Chloroethane-		190-	U-	56-	190-
Methylene Chloride-		190-	U-	60-	190-
Acetone-		1900-	U-	110-	1900-
Carbon disulfide-		190-	U-	38-	190-
1,1-Dichloroethene-		190-	U-	41-	190-
1,1-Dichloroethane-		190-	U-	38-	190-
Chloroform-		190-	U-	33-	190-
1,2-Dichloroethane-		190-	U-	45-	190-
Methyl Ethyl Ketone-		940-	U-	150-	940-
1,1,1-Trichloroethane-		190-	U-	32d	190-
Carbon tetrachloride-		190-	U-	33-	190-
Dichlorobromomethane-		190-	U-	38-	190-
1,1,2,2-Tetrachloroethane-		190-	U-	38-	190-
1,2-Dichloropropane-		190-	U-	49	190-
trans-1,3-Dichloropropene-		190-	U-	41-	190-
Trichloroethene-		190-	U-	45-	190-
Chlorodibromomethane-		190-	U-	41-	190-
1,1,2-Trichloroethane-		190-	U-	45-	190-
Benzene-		190-	U-	32d	190-
cis-1,3-Dichloropropene-		190-	U-	34-	190-
Bromoform-		190-	U-	83-	190-
2-Hexanone-		940-	U-	200-	940-
methyl isobutyl ketone-		940-	U-	220-	940-
Tetrachloroethene-		190-	U-	38-	190-
Toluene-		75-	J-	38-	190-
Chlorobenzene-		190-	U-	26-	190-
Ethylbenzene-		15000-	E-	33-	190-
Styrene-		190-		32d	190-
Xylenes, Total-		380-	U-	75-	380-
1,2-Dichloroethene, cis-, trans-		79	J-	64-	380-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	108-	65 - 128-
4-Bromofluorobenzene-	96-	68 - 121-
Dibromofluoromethane-	98-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-DUP-1r**

Lab Sample ID:- 680-16600-11FD-
Client Matrix:- Solid- % Moisture:- 9.6-

Date Sampled:- 05/11/2006 0000-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5035-
Dilution:- 200-
Date Analyzed:- 05/25/2006 1457-
Date Prepared:- 05/13/2006 1018a

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- DL-

Instrument ID:- GC/MS Volatiles - La
Lab File ID:- l0065.da
Initial Weight/Volume:- 5.9 ga
Final Weight/Volume:- 5 ga

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RLa
Chloromethane-		940-	U-	130-	940-
Bromomethane-		940-	U-	240-	940-
Vinyl chloride-		1100-	D-	170-	940-
Chloroethane-		940-	U-	280-	940-
Methylene Chloride-		940-	U-	300-	940-
Acetone-		2800-	JD B-	560-	9400-
Carbon disulfide-		940-	U-	190-	940-
1,1-Dichloroethene-		940-	U-	210-	940-
1,1-Dichloroethane-		940-	U-	190-	940-
Chloroform-		940-	U-	170-	940-
1,2-Dichloroethane-		940-	U-	230-	940-
Methyl Ethyl Ketone-		4700-	U-	750-	4700-
1,1,1-Trichloroethane-		940-	U-	160-	940-
Carbon tetrachloride-		940-	U-	170-	940-
Dichlorobromomethane-		940-	U-	190-	940-
1,1,2,2-Tetrachloroethane-		940-	U-	190-	940-
1,2-Dichloropropane-		940-	U-	240-	940-
trans-1,3-Dichloropropene-		940-	U-	210-	940-
Trichloroethene-		940-	U-	230-	940-
Chlorodibromomethane-		940-	U-	210-	940-
1,1,2-Trichloroethane-		940-	U-	230-	940-
Benzene-		940-	U-	160-	940-
cis-1,3-Dichloropropene-		940-	U-	170-	940-
Bromoform-		940-	U-	410-	940-
2-Hexanone-		4700-	U-	1000-	4700-
methyl isobutyl ketone-		4700-	U-	1100-	4700-
Tetrachloroethene-		940-	U-	190-	940-
Toluene-		630-	JD-	190-	940-
Chlorobenzene-		940-	U-	130-	940-
Ethylbenzene-		25000-	D-	160-	940-
Styrene-		270-	JD-	160-	940-
Xylenes, Total-		1900-	U-	380-	1900-
1,2-Dichloroethene, cis-, trans-		1900-	U-	320-	1900-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	122d	65 - 128-
4-Bromofluorobenzene-	105-	68 - 121-
Dibromofluoromethane-	127-	66 - 127-

Method:- 8260B-
Preparation:- 5035-
Dilution:- 200-
Date Analyzed:- 05/25/2006 1622d

Analysis Batch: 680-45614-
Prep Batch: 680-44482d
Run Type:- RADL-

Instrument ID:- GC/MS Volatiles - L-
Lab File ID:- l0069.d-
Initial Weight/Volume:- 5.9 g-
Final Weight/Volume:- 5 g-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **SB-DUP-1r**

Lab Sample ID:- 680-16600-11FD-
Client Matrix:- Solid- % Moisture:- 9.6-

Date Sampled:- 05/11/2006 0000-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Date Prepared:- 05/13/2006 1018-

Analyte-	DryWt Corrected: Y-	Result (ug/Kg)-	Qualifier-	MDL-	RL-
Chloromethane-		940-	U-	130-	940-
Bromomethane-		940-	U-	240-	940-
Vinyl chloride-		830-	JD-	170-	940-
Chloroethane-		940-	U-	280-	940-
Methylene Chloride-		940-	U-	300-	940-
Acetone-		2200-	JD B-	560-	9400-
Carbon disulfide-		940-	U-	190-	940-
1,1-Dichloroethene-		940-	U-	210-	940-
1,1-Dichloroethane-		940-	U-	190-	940-
Chloroform-		940-	U-	170-	940-
1,2-Dichloroethane-		940-	U-	230-	940-
Methyl Ethyl Ketone-		4700-	U-	750-	4700-
1,1,1-Trichloroethane-		940-	U-	160-	940-
Carbon tetrachloride-		940-	U-	170-	940-
Dichlorobromomethane-		940-	U-	190-	940-
1,1,2,2-Tetrachloroethane-		940-	U-	190-	940-
1,2-Dichloropropane-		940-	U-	240-	940-
trans-1,3-Dichloropropene-		940-	U-	210-	940-
Trichloroethene-		940-	U-	230-	940-
Chlorodibromomethane-		940-	U-	210-	940-
1,1,2-Trichloroethane-		940-	U-	230-	940-
Benzene-		940-	U-	160-	940-
cis-1,3-Dichloropropene-		940-	U-	170-	940-
Bromoform-		940-	U-	410-	940-
2-Hexanone-		4700-	U-	1000-	4700-
methyl isobutyl ketone-		4700-	U-	1100-	4700-
Tetrachloroethene-		940-	U-	190-	940-
Toluene-		410-	JD-	190-	940-
Chlorobenzene-		940-	U-	130-	940-
Ethylbenzene-		21000-	D-	160-	940-
Styrene-		220-	JD-	160-	940-
Xylenes, Total-		1900-	U-	380-	1900-
1,2-Dichloroethene, cis-, trans-		1900-	U-	320-	1900-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	99	65 - 128-
4-Bromofluorobenzene-	84-	68 - 121-
Dibromofluoromethane-	97-	66 - 127-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Client Sample ID:r **Trip Blankr**

Lab Sample ID:- 680-16600-12TB-
Client Matrix:- Water-

Date Sampled:- 05/11/2006 0000-
Date Received:- 05/13/2006 0915-

8260B Volatile Organic Compounds by GC/MSF

Method:- 8260B-
Preparation:- 5030B-
Dilution:- 1.0-
Date Analyzed:- 05/24/2006 2040-
Date Prepared:- 05/24/2006 2040-

Analysis Batch: 680-45595-

Instrument ID:- GC/MS Volatiles - S-
Lab File ID:- s0533.d-
Initial Weight/Volume:- 5 mL-
Final Weight/Volume:- 5 mL-

Analyte-		Result (ug/L)-	Qualifier-	MDL-	RL-
Bromomethane-		1.0-	U-	0.93-	1.0-
Chloromethane-		1.0-	U-	0.53-	1.0-
Vinyl chloride-		6.7-		0.92d	1.0-
Chloroethane-		1.0-	U-	0.89	1.0-
Methylene Chloride-		5.0-	U-	0.44-	5.0-
Acetone-		25-	U-	7.3-	25-
Carbon disulfide-	-	2.0-	U-	0.75-	2.0-
1,1-Dichloroethene-		1.0-	U-	0.93-	1.0-
1,1-Dichloroethane-		1.0-	U-	0.56-	1.0-
1,2-Dichloroethene, cis-, trans-	-	2.0-	U-	1.2d	2.0-
Chloroform-		1.0-	U-	0.52d	1.0-
1,2-Dichloroethane-		1.0-	U-	0.28-	1.0-
2-Butanone (MEK)-		10-	U-	0.72d	10-
1,1,1-Trichloroethane-		1.0-	U-	0.79	1.0-
Carbon tetrachloride-		1.0-	U-	0.91-	1.0-
Bromodichloromethane-		1.0-	U-	0.42d	1.0-
1,1,2,2-Tetrachloroethane-		1.0-	U-	0.21-	1.0-
1,2-Dichloropropane-		1.0-	U-	0.26-	1.0-
trans-1,3-Dichloropropene-		1.0-	U-	0.36-	1.0-
Trichloroethene-		1.0-	U-	0.71-	1.0-
Dibromochloromethane-		1.0-	U-	0.40-	1.0-
1,1,2-Trichloroethane-		1.0-	U-	0.37-	1.0-
Benzene-		1.0-	U-	0.54-	1.0-
cis-1,3-Dichloropropene-		1.0-	U-	0.41-	1.0-
Bromoform-		1.0-	U-	0.36-	1.0-
2-Hexanone-		10-	U-	0.39	10-
4-Methyl-2-pentanone (MIBK)-		10-	U-	0.45-	10-
Tetrachloroethene-		1.0-	U-	0.75-	1.0-
Toluene-		0.96-	J-	0.62d	1.0-
Chlorobenzene-		1.0-	U-	0.41-	1.0-
Ethylbenzene-		1.0-	U-	0.62d	1.0-
Styrene-		1.0-	U-	0.42d	1.0-
Xylenes, Total-	-	2.0-	U-	1.3-	2.0-

Surrogate-	%Rec-	Acceptance Limits-
Toluene-d8-	104-	79 - 122d
4-Bromofluorobenzene-	95-	77 - 120-
Dibromofluoromethane-	104-	75 - 123-

DATA REPORTING QUALIFIERSh

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Lab Section1	Qualifierh	Description1
GC/MS VOA-		
	B-	Compound was found in the blank and sample.-
	U-	Indicates the analyte was analyzed for but not detected.-
	*-	LCS or LCSD exceeds the control limits-
	E-	Result exceeded calibration range, secondary dilution required.
	J-	Result is less than the RL but greater than or equal to the MDL - and the concentration is an approximate value.-
	D-	Surrogate or matrix spike recoveries were not obtained - because the extract was diluted for analysis; also compounds - analyzed at a dilution will be flagged with a D.-

QUALITY CONTROL RESULTSO

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

QC Association SummaryD

Lab Sample ID/	Client Sample ID/	Client Matrix/	Method/	Prep Batch/
GC/MS VOA/				
Prep Batch: 680-44482A				
680-16600-1-	SB-132 (6-8')-	Solid-	5035-	
680-16600-2-	SB-133 (6-8')-	Solid-	5035-	
680-16600-2DL-	SB-133 (6-8')-	Solid-	5035-	
680-16600-3-	SB-134 (6-8')-	Solid-	5035-	
680-16600-3DL-	SB-134 (6-8')-	Solid-	5035-	
680-16600-3MS-	Matrix Spike-	Solid-	5035-	
680-16600-3MSD-	Matrix Spike Duplicate-	Solid-	5035-	
680-16600-4-	SB-135 (6-8')-	Solid-	5035-	
680-16600-4DL-	SB-135 (6-8')-	Solid-	5035-	
680-16600-5-	SB-136 (6-8')-	Solid-	5035-	
680-16600-5DL-	SB-136 (6-8')-	Solid-	5035-	
680-16600-6-	SB-137 (6-8')-	Solid-	5035-	
680-16600-6DL-	SB-137 (6-8')-	Solid-	5035-	
680-16600-7-	SB-138 (6-8')-	Solid-	5035-	
680-16600-8-	SB-139 (6-8')-	Solid-	5035-	
680-16600-8DL-	SB-139 (6-8')-	Solid-	5035-	
680-16600-9-	SB-140 (6-8')-	Solid-	5035-	
680-16600-9DL-	SB-140 (6-8')-	Solid-	5035-	
680-16600-10-	SB-141 (6-8')-	Solid-	5035-	
680-16600-11FD-	SB-DUP-1-	Solid-	5035-	
680-16600-11FDDL-	SB-DUP-1-	Solid-	5035-	
680-16600-11FDRADL-	SB-DUP-1-	Solid-	5035-	
Analysis Batch:680-45490A				
LCS 680-45490/4-	Lab Control Spike-	Solid-	8260B-	
MB 680-45490/5-	Method Blank-	Solid-	8260B-	
Analysis Batch:680-45491A				
LCS 680-45491/4-	Lab Control Spike-	Solid-	8260B-	
MB 680-45491/5-	Method Blank-	Solid-	8260B-	
Analysis Batch:680-45595A				
LCS 680-45595/5-	Lab Control Spike-	Water-	8260B-	
MB 680-45595/7-	Method Blank-	Water-	8260B-	
680-16600-12TB-	Trip Blank-	Water-	8260B-	
Analysis Batch:680-45611A				
LCS 680-45611/5-	Lab Control Spike-	Solid-	8260B-	
MB 680-45611/6-	Method Blank-	Solid-	8260B-	
Analysis Batch:680-45614A				
LCS 680-45614/3-	Lab Control Spike-	Solid-	8260B-	
MB 680-45614/5-	Method Blank-	Solid-	8260B-	
Analysis Batch:680-45490A				
680-16600-7-	SB-138 (6-8')-	Solid-	8260B-	680-44482-

STL Savannah/

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

QC Association SummaryD

Lab Sample ID/	Client Sample ID/	Client Matrix/	Method/	Prep Batch/
GC/MS VOA/				
Analysis Batch:680-45491A				
680-16600-3-	SB-134 (6-8')-	Solid-	8260B-	680-44482-
680-16600-4-	SB-135 (6-8')-	Solid-	8260B-	680-44482-
680-16600-5-	SB-136 (6-8')-	Solid-	8260B-	680-44482-
680-16600-6-	SB-137 (6-8')-	Solid-	8260B-	680-44482-
680-16600-8-	SB-139 (6-8')-	Solid-	8260B-	680-44482-
680-16600-9-	SB-140 (6-8')-	Solid-	8260B-	680-44482-
680-16600-11FD-	SB-DUP-1-	Solid-	8260B-	680-44482-
Analysis Batch:680-45611A				
680-16600-1-	SB-132 (6-8')-	Solid-	8260B-	680-44482-
680-16600-10-	SB-141 (6-8')-	Solid-	8260B-	680-44482-
Analysis Batch:680-45614A				
680-16600-2-	SB-133 (6-8')-	Solid-	8260B-	680-44482-
680-16600-2DL-	SB-133 (6-8')-	Solid-	8260B-	680-44482-
680-16600-3DL-	SB-134 (6-8')-	Solid-	8260B-	680-44482-
680-16600-3MS-	Matrix Spike-	Solid-	8260B-	680-44482-
680-16600-3MSD-	Matrix Spike Duplicate-	Solid-	8260B-	680-44482-
680-16600-4DL-	SB-135 (6-8')-	Solid-	8260B-	680-44482-
680-16600-5DL-	SB-136 (6-8')-	Solid-	8260B-	680-44482-
680-16600-6DL-	SB-137 (6-8')-	Solid-	8260B-	680-44482-
680-16600-8DL-	SB-139 (6-8')-	Solid-	8260B-	680-44482-
680-16600-9DL-	SB-140 (6-8')-	Solid-	8260B-	680-44482-
680-16600-11FDDL-	SB-DUP-1-	Solid-	8260B-	680-44482-
680-16600-11FDRADL-	SB-DUP-1-	Solid-	8260B-	680-44482-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

urrogate Recovery ReportS

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample	(BFB)S (%Rec)S	(DBFM)S (%Rec)S	(TOL)S (%Rec)S
LCS 680-45490/4		97 -	112 -	104 -
LCS 680-45491/4		93 -	108 -	98 -
LCS 680-45611/5		105 -	114 -	109 -
LCS 680-45614/3		94 -	104 -	98 -
MB 680-45490/5		91 -	103 -	96 -
MB 680-45491/5		97 -	117 -	104 -
MB 680-45611/6-		91 -	102 -	94 -
MB 680-45614/5		106 -	121 -	110 -
680-16600-1-	SB-132 (6-8')-	87 -	102 -	91 -
680-16600-2	SB-133 (6-8')-	50 *	71 -	57 *
680-16600-2DL-	SB-133 (6-8')-	0 D	0 D	0 D
680-16600-3	SB-134 (6-8')-	91 -	98 -	107 -
680-16600-3DL-	SB-134 (6-8')-	0 D	0 D	0 D
680-16600-3MS	SB-134 (6-8')-	99 -	105 -	113 -
680-16600-3MSD	SB-134 (6-8')-	93 -	102 -	105 -
680-16600-4	SB-135 (6-8')-	108 -	108 -	117 -
680-16600-4DL-	SB-135 (6-8')-	81 -	96 -	99 -
680-16600-5	SB-136 (6-8')-	86 -	93 -	95 -
680-16600-5DL-	SB-136 (6-8')-	0 D	0 D	0 D
680-16600-6-	SB-137 (6-8')-	82 -	89 -	91 -
680-16600-6DL-	SB-137 (6-8')-	0 D	0 D	0 D
680-16600-7	SB-138 (6-8')-	89 -	104 -	100 -
680-16600-8-	SB-139 (6-8')-	83 -	88 -	93 -
680-16600-8DL-	SB-139 (6-8')-	0 D	0 D	0 D
680-16600-9-	SB-140 (6-8')-	79 -	84 -	90 -

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

		(BFB)S (%Rec)S	(DBFM)S (%Rec)S	(TOL)S (%Rec)S
680-16600-9DL-	SB-140 (6-8')-	0 D	0 D	0 D
680-16600-10-	SB-141 (6-8')-	82 -	102 -	95 -
680-16600-11FD	SB-DUP-1-	96 -	98 -	108 -
680-16600-11FDDL-	SB-DUP-1	105 -	127 -	122 -
680-16600-11FDRAD	SB-DUP 1-	- 84 -	97 -	99

SurrogateS		Acceptance LimitsS
(BFB)-	4-Bromofluorobenzene-	68 - 121-
(DBFM)-	Dibromofluoromethane-	66 - 127
(TOL)-	Toluene-d8	65 - 128-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

urrogate Recovery ReportS

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample	(BFB)S (%Rec)S	(DBFM)S (%Rec)S	(TOL)S (%Rec)S
LCS 680-45595/5		84 -	99 -	92 -
MB 680-45595/7		94 -	104 -	103 -
680-16600-12TB-	Trip Blank-	95 -	104 -	104 -

urrogateS		Acceptance LimitsS
(BFB)-	4-Bromofluorobenzene-	77 - 120-
(DBFM)-	Dibromofluoromethane-	75 - 123
(TOL)-	Toluene-d8	79 - 122

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Matrix Spike/4
Matrix Spike Duplicate Recovery Report - Batch: 680-4 824

Method: 8260B4
Preparation: 50354

MS Lab Sample ID:d	680-16600-3	Analysis Batch: 680-45614(	Instrument ID:dGC/MS Volatiles - L(
Client Matrix:d	Solid(	Prep Batch: 680-44482d	Lab File ID:d l0074.d(
Dilution:d	5000d		Initial Weight/Volume:d5.8 g(
Date Analyzed:d	05/25/2006 1811d		Final Weight/Volume:d5 g(
Date Prepared:d	05/13/2006 1018d		

MSD Lab Sample ID:d	680-16600-3	Analysis Batch: 680-45614(	Instrument ID:dGC/MS Volatiles - L(
Client Matrix:d	Solid(	Prep Batch: 680-44482d	Lab File ID:d l0075.d(
Dilution:d	5000d		Initial Weight/Volume:d4.9 g(
Date Analyzed:d	05/25/2006 1832d		Final Weight/Volume:d5 g(
Date Prepared:d	05/13/2006 1018d		

	% Rec.(						
Analyted	MS(	MSD(	Limit(	RPD(	RPD Limit(	MS Qual(	MSD Qual(
Chloromethaned	90d	87(	42 - 140d	14(	50:		
Bromomethaned	99(	96d	26 - 160d	14(	50:		
Vinyl chlorided	72d	87	34 - 154(	16d	50:		
Chloroethaned	260d	241d	20 - 140d	9(	50d	*(	*a
Methylene Chlorided	97(	92d	54 - 150	12	50d		
Acetoned	125(	133	28 - 143	23	50d	B(	Ba
Carbon disulfided	98d	94(	32 - 157(	12d	50:		
1,1-Dichloroethened	98d	96d	52 - 143	15(	50:		
1,1-Dichloroethaned	104(	97	43 - 157(	9(	50:		
Chloroformd	103	103	77 - 125(	17(	50:		
1,2-Dichloroethaned	105(	95	65 - 133	7(	50:		
Methyl Ethyl Ketoned	107(	105(	30 - 149(	15(	50:		
1,1,1-Trichloroethaned	103	99	58 - 139(	13	50:		
Carbon tetrachlorided	101d	95(	62 - 140	11	50d		
Dichlorobromomethaned	104(	98d	74 - 128d	11d	50:		
1,1,2,2-Tetrachloroethaned	100d	99(	64 - 130d	15(	50:		
1,2-Dichloropropaned	111d	101d	77 - 118d	7(	50:		
trans-1,3-Dichloropropened	109(	101d	75 - 126d	9(	50:		
Trichloroethened	111d	100d	80 - 122d	7(	50:		
Chlorodibromomethaned	92d	87(	67 - 135(	11d	50:		
1,1,2-Trichloroethaned	115(	104(	76 - 120d	6d	50:		
Benzened	113	101d	79 - 118d	6d	50:		
cis-1,3-Dichloropropened	108d	99(	71 - 123	8d	50:		
Bromoformd	87(	84(	62 - 137(	14(	50:		
2-Hexanoned	103	102d	30 - 148d	15(	50:		
methyl isobutyl ketoned	116d	108d	29 - 150	10	50d		
Tetrachloroethened	102d	97(	79 - 132	11	50d		
Toluened	110d	99(	80 - 118d	5(	50:		
Chlorobenzened	99(	95(	81 - 120d	13	50:		
Ethylbenzened	100d	95(	82 - 118d	13	50:		

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Matrix Spike/4
Matrix Spike Duplicate Recovery Report - Batch: 680-4 824

Method: 8260B4
Preparation: 50354

MS Lab Sample ID:d	680-16600-3	Analysis Batch: 680-45614(	Instrument ID:dGC/MS Volatiles - L(
Client Matrix:d	Solid(	Prep Batch: 680-44482d	Lab File ID:d l0074.d(
Dilution:d	5000d		Initial Weight/Volume:d5.8 g(
Date Analyzed:d	05/25/2006 1811d		Final Weight/Volume:d5 g(
Date Prepared:d	05/13/2006 1018d		

MSD Lab Sample ID:d	680-16600-3	Analysis Batch: 680-45614(	Instrument ID:dGC/MS Volatiles - L(
Client Matrix:d	Solid(	Prep Batch: 680-44482d	Lab File ID:d l0075.d(
Dilution:d	5000d		Initial Weight/Volume:d4.9 g(
Date Analyzed:d	05/25/2006 1832d		Final Weight/Volume:d5 g(
Date Prepared:d	05/13/2006 1018d		

	% Rec.(						
Analyted	MS(	MSD(	Limit(	RPD(	RPD Limit(	MS Qual(	MSD Qual(
Styrened	96d	92d	80 - 118d	13	50d		
Xylenes, Total(	102d	95(	74 - 122d	10d	50d		
1,2-Dichloroethene, cis-, trans-d	95(	97(	35 - 154(	16d	50d		

Surrogated	MS % Rec(	MSD % Rec(	Acceptance Limits(
Toluene-d8	d113	105(	65 - 128d
4-Bromofluorobenzened	99(	93	68 - 121d
Dibromofluoromethane	d105(	102d	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Matrix Spike/4
Matrix Spike Duplicate Data Report - Batch: 680-4 824

Method: 8260B4
Preparation: 50354

MS Lab Sample ID:d 680-16600-3
Client Matrix:d Solid(
Dilution:d 5000d
Date Analyzed:d 05/25/2006 1811d
Date Prepared:d 05/13/2006 1018d

Units: ug/Kg(

MSD Lab Sample ID:d 680-16600-3a
Client Matrix:d Solida
Dilution:d 5000:
Date Analyzed:d 05/25/2006 1832:
Date Prepared:d 05/13/2006 1018:

Analyted	Sample d Result/Qual(		MS Spike d Amount(	MSD Spike d Amount(	MS d Result/Qual(		MSD d Result/Qual(	
Chloromethaned	0.0d	U(	310000d	367000d	279000d		320000d	
Bromomethaned	0.0d	U(	310000d	367000d	307000d		354000d	
Vinyl chlorided	313000d		310000d	367000d	537000d		634000d	
Chloroethaned	0.0d	U(	310000d	367000d	805000d	*(	883000d	*(
Methylene Chlorided	0.0d	U(	310000d	367000d	300000d		337000d	
Acetoned	0.0d	U(	620000d	734000d	774000d	B(	979000d	B(
Carbon disulfided	0.0d	U(	310000d	367000d	303000d		343000d	
1,1-Dichloroethened	0.0d	U(	310000d	367000d	304000d		352000d	
1,1-Dichloroethaned	0.0d	U(	310000d	367000d	324000d		354000d	
Chloroformd	0.0d	U(	310000d	367000d	319000d		377000d	
1,2-Dichloroethaned	0.0d	U(	310000d	367000d	324000d		349000d	
Methyl Ethyl Ketoned	0.0d	U(	620000d	734000d	660000d		769000d	
1,1,1-Trichloroethaned	0.0d	U(	310000d	367000d	320000d		364000d	
Carbon tetrachlorided	0.0d	U(	310000d	367000d	312000d		349000d	
Dichlorobromomethaned	0.0d	U(	310000d	367000d	321000d		358000d	
1,1,2,2-Tetrachloroethaned	0.0d	U(	310000d	367000d	311000d		363000d	
1,2-Dichloropropaned	0.0d	U(	310000d	367000d	345000d		371000d	
trans-1,3-Dichloropropened	0.0d	U(	310000d	367000d	339000d		372000d	
Trichloroethened	0.0d	U(	310000d	367000d	343000d		366000d	
Chlorodibromomethaned	0.0d	U(	310000d	367000d	284000d		317000d	
1,1,2-Trichloroethaned	0.0d	U(	310000d	367000d	358000d		381000d	
Benzened	0.0d	U(	310000d	367000d	350000d		372000d	
cis-1,3-Dichloropropened	0.0d	U(	310000d	367000d	336000d		365000d	
Bromoformd	0.0d	U(	310000d	367000d	269000d		310000d	
2-Hexanoned	0.0d	U(	620000d	734000d	640000d		746000d	
methyl isobutyl ketoned	0.0d	U(	620000d	734000d	718000d		796000d	
Tetrachloroethened	0.0d	U(	310000d	367000d	317000d		355000d	
Toluened	13400d	Jd	310000d	367000d	355000d		375000d	
Chlorobenzened	0.0d	U(	310000d	367000d	306000d		348000d	
Ethylbenzened	0.0d	U(	310000d	367000d	309000d		350000d	
Styrened	0.0d	U(	310000d	367000d	298000d		337000d	
Xylenes, Total(	0.0d	U	930000d	1100000d	953000d		1050000d	
1,2-Dichloroethene, cis-, trans-d	149000d		620000d	734000d	734000d		859000d	

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Method Blank - Batch: 680-454904

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dMB 680-45490/5(
Client Matrix:d Solid
Dilution:d 1.0
Date Analyzed:d05/24/2006 1147(
Date Prepared:dN/A(

Analysis Batch: 680-45490d
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d Iq032.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 mL(

Analyted	Result(	Qual(	MDL(	RL(
Bromomethaned	5.0d	U(	1.3	5.0d
Chloromethaned	5.0d	U(	0.70d	5.0d
Vinyl chlorided	5.0d	U(	0.92d	5.0d
Chloroethaned	5.0d	U(	1.5(	5.0d
Methylene Chlorided	5.0d	U(	1.6d	5.0d
Acetoned	50d	U(	3.0d	50d
Carbon disulfided	5.0d	U(	1.0d	5.0d
1,1-Dichloroethened	5.0d	U(	1.1d	5.0d
1,1-Dichloroethaned	5.0d	U(	1.0d	5.0d
Chloroformd	5.0d	U(	0.88d	5.0d
1,2-Dichloroethaned	5.0d	U(	1.2d	5.0d
Methyl Ethyl Ketoned	25(	U(	4.0d	25(
1,1,1-Trichloroethaned	5.0d	U(	0.85(	5.0d
Carbon tetrachlorided	5.0d	U(	0.89(	5.0d
Dichlorobromomethaned	5.0d	U(	1.0d	5.0d
1,1,2,2-Tetrachloroethaned	5.0d	U(	1.0d	5.0d
1,2-Dichloropropaned	5.0d	U(	1.3	5.0d
trans-1,3-Dichloropropened	5.0d	U(	1.1d	5.0d
Trichloroethened	5.0d	U(	1.2d	5.0d
Chlorodibromomethaned	5.0d	U(	1.1d	5.0d
1,1,2-Trichloroethaned	5.0d	U(	1.2d	5.0d
Benzened	5.0d	U(	0.86d	5.0d
cis-1,3-Dichloropropened	5.0d	U(	0.91d	5.0d
Bromoformd	5.0d	U(	2.2d	5.0d
2-Hexanoned	25(	U(	5.4(	25(
methyl isobutyl ketoned	25(	U(	5.8d	25(
Tetrachloroethened	5.0d	U(	1.0d	5.0d
Toluened	5.0d	U(	1.0d	5.0d
Chlorobenzened	5.0d	U(	0.69(	5.0d
Ethylbenzened	5.0d	U(	0.87(	5.0d
Styrened	5.0d	U(	0.85(	5.0d
Xylenes, Total(	10d	U(	2.0d	10d
1,2-Dichloroethene, cis-, trans-d	10d	U(	1.7(	10d

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8d	96d	65 - 128d
4-Bromofluorobenzened	91d	68 - 121d
Dibromofluoromethane	103d	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Laboratory Control Sample - Batch: 680-454904

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dLCS 680-45490/4(
Client Matrix:d Solid
Dilution:d 1.0
Date Analyzed:d05/24/2006 1046
Date Prepared:dN/A(

Analysis Batch: 680-45490d
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d lq030.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 mL(

Analyted	Spike Amount(	Result(	% Rec.(	Limit	Qual(
Bromomethaned	50.0d	44.8d	90d	26 - 160d	
Chloromethaned	50.0d	48.6d	97(	42 - 140d	
Vinyl chlorided	50.0d	52.1	d104	34 - 154(	
Chloroethaned	50.0d	50.8d	102d	20 - 140d	
Methylene Chlorided	50.0d	49.2d	98d	54 - 150d	
Acetoned	100d	124(	124(	28 - 143	
Carbon disulfided	50.0d	51.5(	103	32 - 157(	
1,1-Dichloroethened	50.0d	53.1d	106d	52 - 143	
1,1-Dichloroethaned	50.0d	53.5(	107	43 - 157(	
Chloroformd	50.0d	56.5(	113	77 - 125(	
1,2-Dichloroethaned	50.0d	52.0	d104(	65 - 133	
Methyl Ethyl Ketoned	100d	101d	101d	30 - 149(	
1,1,1-Trichloroethaned	50.0d	51.4(	103	58 - 139(	
Carbon tetrachlorided	50.0d	49.5(	99(	62 - 140d	
Dichlorobromomethaned	50.0d	52.2	d104	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	50.1d	100d	64 - 130d	
1,2-Dichloropropaned	50.0d	53.5(	107	77 - 118d	
trans-1,3-Dichloropropened	50.0d	53.2d	106d	75 - 126d	
Trichloroethened	50.0d	51.5(	103	80 - 122d	
Chlorodibromomethaned	50.0d	47.6d	95(	67 - 135(	
1,1,2-Trichloroethaned	50.0d	53.4(	107(	76 - 120d	
Benzened	50.0d	54.2d	108d	79 - 118d	
cis-1,3-Dichloropropened	50.0d	53.6	d107(	71 - 123	
Bromoformd	50.0d	46.6d	93	62 - 137(	
2-Hexanoned	100d	93.1d	93	30 - 148d	
methyl isobutyl ketoned	100d	99.5(	100d	29 - 150d	
Tetrachloroethened	50.0d	50.8d	102d	79 - 132d	
Toluened	50.0d	51.9(	104(	80 - 118d	
Chlorobenzened	50.0d	49.7(	99(	81 - 120d	
Ethylbenzened	50.0d	48.4(	97(	82 - 118d	
Styrened	50.0d	49.5(	99(	80 - 118d	
Xylenes, Total(	150d	147(	98d	74 - 122d	
1,2-Dichloroethene, cis-, trans-d	100d	109(	109	85 - 154(	

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8	d104(	65 - 128d
4-Bromofluorobenzened	97(	68 - 121d
Dibromofluoromethaned	112d	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Method Blank - Batch: 680-45491

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dMB 680-45491/5(
Client Matrix:d Solid
Dilution:d 40
Date Analyzed:d05/24/2006 1127(
Date Prepared:dN/A(

Analysis Batch: 680-45491d
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d lq031.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 g(

Analyted	Result(	Qual(	MDL(	RL(
Bromomethaned	200d	U(	52d	200d
Chloromethaned	200d	U(	28d	200d
Vinyl chlorided	200d	U(	37(	200d
Chloroethaned	200d	U(	60d	200d
Methylene Chlorided	200d	U(	64(	200d
Acetoned	1100d	Jd	120d	2000d
Carbon disulfided	200d	U(	40d	200d
1,1-Dichloroethened	200d	U(	44(	200d
1,1-Dichloroethaned	200d	U(	40d	200d
Chloroformd	200d	U(	35(	200d
1,2-Dichloroethaned	200d	U(	48d	200d
Methyl Ethyl Ketoned	1000d	U(	160d	1000d
1,1,1-Trichloroethaned	200d	U(	34(	200d
Carbon tetrachlorided	200d	U(	36d	200d
Dichlorobromomethaned	200d	U(	40d	200d
1,1,2,2-Tetrachloroethaned	200d	U(	40d	200d
1,2-Dichloropropaned	200d	U(	52d	200d
trans-1,3-Dichloropropened	200d	U(	44(	200d
Trichloroethened	200d	U(	48d	200d
Chlorodibromomethaned	200d	U(	44(	200d
1,1,2-Trichloroethaned	200d	U(	48d	200d
Benzened	200d	U(	34(	200d
cis-1,3-Dichloropropened	200d	U(	36d	200d
Bromoformd	200d	U(	88d	200d
2-Hexanoned	1000d	U(	220d	1000d
methyl isobutyl ketoned	1000d	U(	230d	1000d
Tetrachloroethened	200d	U(	40d	200d
Toluened	200d	U(	40d	200d
Chlorobenzened	200d	U(	28d	200d
Ethylbenzened	200d	U(	35(	200d
Styrened	200d	U(	34(	200d
Xylenes, Total(	400d	U(	80d	400d
1,2-Dichloroethene, cis-, trans-d	400d	U(	68d	400d

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8	d104(	65 - 128d
4-Bromofluorobenzened	97(	68 - 121d
Dibromofluoromethane	d117(	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Laboratory Control Sample - Batch: 680-45491

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dLCS 680-45491/4(
Client Matrix:d Solid
Dilution:d 40
Date Analyzed:d05/24/2006 1026
Date Prepared:dN/A(

Analysis Batch: 680-45491d
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d lq029.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 g(

Analyted	Spike Amount(	Result(	% Rec.(	Limit	Qual(
Bromomethaned	2500d	2060d	82d	26 - 160d	
Chloromethaned	2500d	2340d	94(	42 - 140d	
Vinyl chlorided	2500d	2520d	101d	34 - 154(	
Chloroethaned	2500d	1830d	73	20 - 140d	
Methylene Chlorided	2500d	2390d	96d	54 - 150d	
Acetoned	5000d	6900d	138d	28 - 143	B(
Carbon disulfided	2500d	2560d	103	32 - 157(	
1,1-Dichloroethened	2500d	2530d	101d	52 - 143	
1,1-Dichloroethaned	2500d	2570	d103	43 - 157(	
Chloroformd	2500d	2630	d105	(77 - 125(	
1,2-Dichloroethaned	2500d	2540d	102d	65 - 133	
Methyl Ethyl Ketoned	5000d	5360d	107(	30 - 149(	
1,1,1-Trichloroethaned	2500d	2410d	97(	58 - 139(	
Carbon tetrachlorided	2500d	2380d	95(	62 - 140d	
Dichlorobromomethaned	2500d	2440d	98d	74 - 128d	
1,1,2,2-Tetrachloroethaned	2500d	2400d	96d	64 - 130d	
1,2-Dichloropropaned	2500d	2480d	99(	77 - 118d	
trans-1,3-Dichloropropened	2500d	2560d	102d	75 - 126d	
Trichloroethened	2500d	2490d	100d	80 - 122d	
Chlorodibromomethaned	2500d	2340d	94(	67 - 135(	
1,1,2-Trichloroethaned	2500d	2700d	108d	76 - 120d	
Benzened	2500d	2590	d104	(79 - 118d	
cis-1,3-Dichloropropened	2500d	2570	d103	71 - 123	
Bromoformd	2500d	2340d	94(	62 - 137(	
2-Hexanoned	5000d	4870d	97(	30 - 148d	
methyl isobutyl ketoned	5000d	5000d	100d	29 - 150d	
Tetrachloroethened	2500d	2410d	96d	79 - 132d	
Toluened	2500d	2440d	98d	80 - 118d	
Chlorobenzened	2500d	2410d	96d	81 - 120d	
Ethylbenzened	2500d	2330d	93	82 - 118d	
Styrened	2500d	2390d	96d	80 - 118d	
Xylenes, Total(	7500d	7190d	96d	74 - 122d	
1,2-Dichloroethene, cis-, trans-d	5000d	5260d	105	(85 - 154(	

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8d	98d	65 - 128d
4-Bromofluorobenzened	93	68 - 121d
Dibromofluoromethaned	108d	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Method Blank - Batch: 680-455954

Method: 8260B4
Preparation: 5030B4

Lab Sample ID:dMB 680-45595/7(
Client Matrix:d Water
Dilution:d 1.0
Date Analyzed:d05/24/2006 2000d
Date Prepared:d05/24/2006 2000d

Analysis Batch: 680-45595(
Prep Batch: N/A(
Units: ug/L(

Instrument ID:dGC/MS Volatiles - S(
Lab File ID:d sq393.d(
Initial Weight/Volume:d5 mL(
Final Weight/Volume:d5 mL(

Analyted	Result(	Qual(	MDL(	RL
Bromomethaned	1.0d	U(	0.93	1.0d
Chloromethaned	1.0d	U(	0.53	1.0d
Vinyl chlorided	1.0d	U(	0.92d	1.0d
Chloroethaned	1.0d	U(	0.89(	1.0d
Methylene Chlorided	5.0d	U(	0.44(	5.0d
Acetoned	25(	U(	7.3	25(
Carbon disulfided	2.0d	U(	0.75(	2.0d
1,1-Dichloroethened	1.0d	U(	0.93	1.0d
1,1-Dichloroethaned	1.0d	U(	0.56d	1.0d
Chloroformd	1.0d	U(	0.52d	1.0d
1,2-Dichloroethaned	1.0d	U(	0.28d	1.0d
2-Butanone (MEK)(	10d	U(	0.72d	10d
1,1,1-Trichloroethaned	1.0d	U(	0.79(	1.0d
Carbon tetrachlorided	1.0d	U(	0.91d	1.0d
Bromodichloromethaned	1.0d	U(	0.42d	1.0d
1,1,2,2-Tetrachloroethaned	1.0d	U(	0.21d	1.0d
1,2-Dichloropropaned	1.0d	U(	0.26d	1.0d
trans-1,3-Dichloropropened	1.0d	U(	0.36d	1.0d
Trichloroethened	1.0d	U(	0.71d	1.0d
Dibromochloromethaned	1.0d	U(	0.40d	1.0d
1,1,2-Trichloroethaned	1.0d	U(	0.37(	1.0d
Benzened	1.0d	U(	0.54(	1.0d
cis-1,3-Dichloropropened	1.0d	U(	0.41d	1.0d
Bromoformd	1.0d	U(	0.36d	1.0d
2-Hexanoned	10d	U(	0.39(	10d
4-Methyl-2-pentanone (MIBK)(	10d	U(	0.45(	10d
Tetrachloroethened	1.0d	U(	0.75(	1.0d
Toluened	1.0d	U(	0.62d	1.0d
Chlorobenzened	1.0d	U(	0.41d	1.0d
Ethylbenzened	1.0d	U(	0.62d	1.0d
Styrened	1.0d	U(	0.42d	1.0d
Xylenes, Total(	2.0d	U(	1.3	2.0d
1,2-Dichloroethene, cis-, trans-d	2.0d	U(	1.2d	2.0d

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8	d103	79 - 122d
4-Bromofluorobenzened	94(	77 - 120d
Dibromofluoromethane	d104	(75 - 123

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Laboratory Control Sample - Batch: 680-455954

Method: 8260B4
Preparation: 5030B4

Lab Sample ID:dLCS 680-45595/5(
Client Matrix:d Water
Dilution:d 1.0
Date Analyzed:d05/24/2006 1919
Date Prepared:d05/24/2006 1919(

Analysis Batch: 680-45595
Prep Batch: N/A(
Units: ug/L(

Instrument ID:dGC/MS Volatiles - S(
Lab File ID:d sq391.d(
Initial Weight/Volume:d5 mL(
Final Weight/Volume:d5 mL(

Analyted	Spike Amount(	Result	% Rec.(	Limit	Qual
Bromomethaned	50.0d	42d	85(	21 - 176d	
Chloromethaned	50.0d	53	106d	51 - 133	
Vinyl chlorided	50.0d	57(	114	59 - 136d	
Chloroethaned	50.0d	52	104(	40 - 171d	
Methylene Chlorided	50.0d	54(	108d	67 - 128d	
Acetoned	100d	96d	96d	20 - 183	
Carbon disulfided	50.0d	53	106d	60 - 130d	
1,1-Dichloroethened	50.0d	52	104(	64 - 132d	
1,1-Dichloroethaned	50.0d	51d	101d	70 - 127(	
Chloroformd	50.0d	48d	97(	74 - 124(	
1,2-Dichloroethaned	50.0d	46d	91d	68 - 130d	
2-Butanone (MEK)(	100d	100d	100d	51 - 142d	
1,1,1-Trichloroethaned	50.0d	49(	97(	70 - 132d	
Carbon tetrachlorided	50.0d	51	103	64 - 137(	
Bromodichloromethaned	50.0d	47(	95(	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	44(	88d	71 - 127(	
1,2-Dichloropropaned	50.0d	46d	92d	74 - 123	
trans-1,3-Dichloropropened	50.0d	48d	96d	75 - 126d	
Trichloroethened	50.0d	46d	92d	75 - 122d	
Dibromochloromethaned	50.0d	46d	91d	75 - 126d	
1,1,2-Trichloroethaned	50.0d	45(	91d	75 - 122d	
Benzened	50.0d	47(	95(	74 - 122d	
cis-1,3-Dichloropropened	50.0d	48d	96d	76 - 126d	
Bromoformd	50.0d	39(	78d	64 - 132d	
2-Hexanoned	100d	88d	88d	58 - 139(	
4-Methyl-2-pentanone (MIBK)(	100d	92d	92d	62 - 130d	
Tetrachloroethened	50.0d	42d	84(	70 - 133	
Toluened	50.0d	46d	93	75 - 122d	
Chlorobenzened	50.0d	42d	84	75 - 123	
Ethylbenzened	50.0d	42d	85	77 - 123	
Styrened	50.0d	44(	87	75 - 125(	
Xylenes, Total(	150d	130	86	d 77 - 121d	
1,2-Dichloroethene, cis-, trans-d	100d	100d	104(	70 - 130d	

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8d	92d	79 - 122d
4-Bromofluorobenzened	84	77 - 120d
Dibromofluoromethaned	99(	75 - 123

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Method Blank - Batch: 680-45611

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dMB 680-45611/6d
Client Matrix:d Solid
Dilution:d 1.0
Date Analyzed:d05/25/2006 1110d
Date Prepared:dN/A(

Analysis Batch: 680-45611d
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d Iq039.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 mL(

Analyted	Result(	Qual(	MDL(	RL
Bromomethaned	5.0d	U(	1.3	5.0d
Chloromethaned	5.0d	U(	0.70d	5.0d
Vinyl chlorided	5.0d	U(	0.92d	5.0d
Chloroethaned	5.0d	U(	1.5(	5.0d
Methylene Chlorided	5.0d	U(	1.6d	5.0d
Acetoned	50d	U(	3.0d	50d
Carbon disulfided	5.0d	U(	1.0d	5.0d
1,1-Dichloroethened	5.0d	U(	1.1d	5.0d
1,1-Dichloroethaned	5.0d	U(	1.0d	5.0d
Chloroformd	5.0d	U(	0.88d	5.0d
1,2-Dichloroethaned	5.0d	U(	1.2d	5.0d
Methyl Ethyl Ketoned	25(	U(	4.0d	25(
1,1,1-Trichloroethaned	5.0d	U(	0.85(	5.0d
Carbon tetrachlorided	5.0d	U(	0.89(	5.0d
Dichlorobromomethaned	5.0d	U(	1.0d	5.0d
1,1,2,2-Tetrachloroethaned	5.0d	U(	1.0d	5.0d
1,2-Dichloropropaned	5.0d	U(	1.3	5.0d
trans-1,3-Dichloropropened	5.0d	U(	1.1d	5.0d
Trichloroethened	5.0d	U(	1.2d	5.0d
Chlorodibromomethaned	5.0d	U(	1.1d	5.0d
1,1,2-Trichloroethaned	5.0d	U(	1.2d	5.0d
Benzened	5.0d	U(	0.86d	5.0d
cis-1,3-Dichloropropened	5.0d	U(	0.91d	5.0d
Bromoformd	5.0d	U(	2.2d	5.0d
2-Hexanoned	25(	U(	5.4(	25(
methyl isobutyl ketoned	25(	U(	5.8d	25(
Tetrachloroethened	5.0d	U(	1.0d	5.0d
Toluened	5.0d	U(	1.0d	5.0d
Chlorobenzened	5.0d	U(	0.69(	5.0d
Ethylbenzened	5.0d	U(	0.87(	5.0d
Styrened	5.0d	U(	0.85(	5.0d
Xylenes, Total(	10d	U(	2.0d	10d
1,2-Dichloroethene, cis-, trans-d	10d	U(	1.7(	10d

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8d	94(	65 - 128d
4-Bromofluorobenzened	91d	68 - 121d
Dibromofluoromethaned	102d	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Laboratory Control Sample - Batch: 680-45611

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dLCS 680-45611/5(
Client Matrix:d Solid
Dilution:d 1.0
Date Analyzed:d05/25/2006 1009
Date Prepared:dN/A(

Analysis Batch: 680-45611d
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d lq037.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 mL(

Analyted	Spike Amount(	Result(	% Rec.(	Limit	Qual
Bromomethaned	50.0d	42.5(	85(	26 - 160d	
Chloromethaned	50.0d	53.5(	107(	42 - 140d	
Vinyl chlorided	50.0d	55.5(	111d	34 - 154(	
Chloroethaned	50.0d	46.3	93	20 - 140d	
Methylene Chlorided	50.0d	51.9(	104	54 - 150d	
Acetoned	100d	138d	138d	28 - 143	
Carbon disulfided	50.0d	55.0d	110d	32 - 157(	
1,1-Dichloroethened	50.0d	53.6	107(	52 - 143	
1,1-Dichloroethaned	50.0d	54.7(	109	43 - 157(	
Chloroformd	50.0d	56.7(	113	77 - 125(	
1,2-Dichloroethaned	50.0d	51.1d	102d	65 - 133	
Methyl Ethyl Ketoned	100d	111d	111d	30 - 149(	
1,1,1-Trichloroethaned	50.0d	53.1d	106d	58 - 139(	
Carbon tetrachlorided	50.0d	50.9(	102d	62 - 140d	
Dichlorobromomethaned	50.0d	52.2	104	74 - 128d	
1,1,2,2-Tetrachloroethaned	50.0d	54.4(	109(	64 - 130d	
1,2-Dichloropropaned	50.0d	55.5(	111d	77 - 118d	
trans-1,3-Dichloropropened	50.0d	51.9(	104	75 - 126d	
Trichloroethened	50.0d	54.9(	110d	80 - 122d	
Chlorodibromomethaned	50.0d	49.7(	99(	67 - 135(	
1,1,2-Trichloroethaned	50.0d	57.0	114(	76 - 120d	
Benzened	50.0d	55.3	111d	79 - 118d	
cis-1,3-Dichloropropened	50.0d	53.1d	106d	71 - 123	
Bromoformd	50.0d	46.7(	93	62 - 137(	
2-Hexanoned	100d	107(	107(	30 - 148d	
methyl isobutyl ketoned	100d	104(	104(	29 - 150d	
Tetrachloroethened	50.0d	54.7(	109	79 - 132d	
Toluened	50.0d	54.9(	110d	80 - 118d	
Chlorobenzened	50.0d	53.3	107(	81 - 120d	
Ethylbenzened	50.0d	52.9(	106d	82 - 118d	
Styrened	50.0d	53.2d	106d	80 - 118d	
Xylenes, Total(	150	163	109	74 - 122d	
1,2-Dichloroethene, cis-, trans-d	100d	114(	114	85 - 154(	

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8	109(	65 - 128d
4-Bromofluorobenzene	105(	68 - 121d
Dibromofluoromethane	114(	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Method Blank - Batch: 680-4561

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dMB 680-45614/5(
Client Matrix:d Solid
Dilution:d 40
Date Analyzed:d05/25/2006 1049(
Date Prepared:dN/A(

Analysis Batch: 680-45614(
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d Iq038.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 g(

Analyted	Result(	Qual(	MDL(	RL
Bromomethaned	200d	U(	52d	200d
Chloromethaned	200d	U(	28d	200d
Vinyl chlorided	200d	U(	37(	200d
Chloroethaned	200d	U(	60d	200d
Methylene Chlorided	200d	U(	64(	200d
Acetoned	940d	Jd	120d	2000d
Carbon disulfided	200d	U(	40d	200d
1,1-Dichloroethened	200d	U(	44(	200d
1,1-Dichloroethaned	200d	U(	40d	200d
Chloroformd	200d	U(	35(	200d
1,2-Dichloroethaned	200d	U(	48d	200d
Methyl Ethyl Ketoned	1000d	U(	160d	1000d
1,1,1-Trichloroethaned	200d	U(	34(	200d
Carbon tetrachlorided	200d	U(	36d	200d
Dichlorobromomethaned	200d	U(	40d	200d
1,1,2,2-Tetrachloroethaned	200d	U(	40d	200d
1,2-Dichloropropaned	200d	U(	52d	200d
trans-1,3-Dichloropropened	200d	U(	44(	200d
Trichloroethened	200d	U(	48d	200d
Chlorodibromomethaned	200d	U(	44(	200d
1,1,2-Trichloroethaned	200d	U(	48d	200d
Benzened	200d	U(	34(	200d
cis-1,3-Dichloropropened	200d	U(	36d	200d
Bromoformd	200d	U(	88d	200d
2-Hexanoned	1000d	U(	220d	1000d
methyl isobutyl ketoned	1000d	U(	230d	1000d
Tetrachloroethened	200d	U(	40d	200d
Toluened	200d	U(	40d	200d
Chlorobenzened	200d	U(	28d	200d
Ethylbenzened	200d	U(	35(	200d
Styrened	200d	U(	34(	200d
Xylenes, Total(	400d	U(	80d	400d
1,2-Dichloroethene, cis-, trans-d	400d	U(	68d	400d

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8d	110d	65 - 128d
4-Bromofluorobenzened	106d	68 - 121d
Dibromofluoromethaned	121d	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)(

Job Number: 680-16600-1d
Sdg Number: SIO40d

Laboratory Control Sample - Batch: 680-4561

Method: 8260B4
Preparation: N/A4

Lab Sample ID:dLCS 680-45614/3
Client Matrix:d Solid
Dilution:d 40
Date Analyzed:d05/25/2006 0949
Date Prepared:dN/A(

Analysis Batch: 680-45614(
Prep Batch: N/A(
Units: ug/Kg(

Instrument ID:dGC/MS Volatiles - L(
Lab File ID:d lq036.d(
Initial Weight/Volume:d5 g(
Final Weight/Volume:d5 g(

Analyted	Spike Amount(	Result(	% Rec.(	Limit	Qual
Bromomethaned	2500d	1910d	76d	26 - 160d	
Chloromethaned	2500d	2510d	100d	42 - 140d	
Vinyl chlorided	2500d	2420d	97(	34 - 154(	
Chloroethaned	2500d	2080d	83	20 - 140d	
Methylene Chlorided	2500d	2400d	96d	54 - 150d	
Acetoned	5000d	6420d	128d	28 - 143	B
Carbon disulfided	2500d	2290d	91d	32 - 157(	
1,1-Dichloroethened	2500d	2370d	95(	52 - 143	
1,1-Dichloroethaned	2500d	2480d	99(	43 - 157(	
Chloroformd	2500d	2610d	104	77 - 125(	
1,2-Dichloroethaned	2500d	2360d	94(	65 - 133	
Methyl Ethyl Ketoned	5000d	5530d	111d	30 - 149(	
1,1,1-Trichloroethaned	2500d	2390d	96d	58 - 139(	
Carbon tetrachlorided	2500d	2360d	94(	62 - 140d	
Dichlorobromomethaned	2500d	2370d	95(	74 - 128d	
1,1,2,2-Tetrachloroethaned	2500d	2380d	95(	64 - 130d	
1,2-Dichloropropaned	2500d	2540d	102d	77 - 118d	
trans-1,3-Dichloropropened	2500d	2460d	98d	75 - 126d	
Trichloroethened	2500d	2490d	100d	80 - 122d	
Chlorodibromomethaned	2500d	2200d	88d	67 - 135(	
1,1,2-Trichloroethaned	2500d	2520d	101d	76 - 120d	
Benzened	2500d	2510d	100d	79 - 118d	
cis-1,3-Dichloropropened	2500d	2370d	95(	71 - 123	
Bromoformd	2500d	2150d	86d	62 - 137(	
2-Hexanoned	5000d	4920d	98d	30 - 148d	
methyl isobutyl ketoned	5000d	5300d	106d	29 - 150d	
Tetrachloroethened	2500d	2370d	95(	79 - 132d	
Toluened	2500d	2430d	97(	80 - 118d	
Chlorobenzened	2500d	2350d	94(	81 - 120d	
Ethylbenzened	2500d	2280d	91d	82 - 118d	
Styrened	2500d	2310d	93	80 - 118d	
Xylenes, Total(	7500d	6820d	91d	74 - 122d	
1,2-Dichloroethene, cis-, trans-d	5000d	5140	103	35 - 154(	

Surrogated	% Rec(	Acceptance Limits(
Toluene-d8d	98d	65 - 128d
4-Bromofluorobenzened	94(	68 - 121d
Dibromofluoromethane	104(	66 - 127(

Calculations are performed before rounding to avoid round-off errors in calculated results.(

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Laboratory ChronicleD

Client Samples:-

Lab ID:I 16600-1I **Client ID:I SB-132 (6-8')I**

Sample Date/Time:- 05/11/2006 0910- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-1-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-1-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-1-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-B-1-	1-	680-45611-	680-44482-	05/25/2006 1722-	1.00 -	SAV-	JW-
A-PercentMoistur-	680-16600-A-1-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:I 16600-2I **Client ID:I SB-133 (6-8')I**

Sample Date/Time:- 05/11/2006 0940- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-2-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-2-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-2-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-2-	1-	680-45614-	680-44482-	05/25/2006 1154-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-2-	2-	680-45614-	680-44482-	05/25/2006 1541-	2000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-2-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:I 16600-3I **Client ID:I SB-134 (6-8')I**

Sample Date/Time:- 05/11/2006 1000- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-3-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-3-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-3-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-3-	1-	680-45491-	680-44482-	05/24/2006 1654-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-3-	2-	680-45614-	680-44482-	05/25/2006 1601-	5000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-3-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Laboratory Chroniclel

Client Samples:-

Lab ID:l 16600-3MSl Client ID:l SB-134 (6-8') MSl

Sample Date/Time:- 05/11/2006 1000- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-3 -	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-3 -	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-3 -	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-3-	1-	680-45614-	680-44482-	05/25/2006 1811-	5000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-3 -	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-3MSDl Client ID:l SB-134 (6-8') MSDl

Sample Date/Time:- 05/11/2006 1000- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-3 -	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-3 -	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-3 -	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-3-	1-	680-45614-	680-44482-	05/25/2006 1832-	5000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-3 -	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-4l Client ID:l SB-135 (6-8')l

Sample Date/Time:- 05/11/2006 1020- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-4-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-4-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-4-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-4-	1-	680-45491-	680-44482-	05/24/2006 1755-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-4-	2-	680-45614-	680-44482-	05/25/2006 1235-	200.00-	SAV-	JW-
A-PercentMoistur-	680-16600-A-4-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Laboratory Chroniclel

Client Samples:-

Lab ID:l 16600-5l **Client ID:l SB-136 (6-8')l**

Sample Date/Time:- 05/11/2006 1050- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-5-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-5-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-5-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-5-	1-	680-45491-	680-44482-	05/24/2006 1815-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-5-	2-	680-45614-	680-44482-	05/25/2006 1255-	2000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-5-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-6l **Client ID:l SB-137 (6-8')l**

Sample Date/Time:- 05/11/2006 1120- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-6-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-6-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-6-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-6-	1-	680-45491-	680-44482-	05/24/2006 1836-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-6-	2-	680-45614-	680-44482-	05/25/2006 1316-	2000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-6-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-7 **Client ID:l SB-138 (6-8')l**

Sample Date/Time:- 05/11/2006 1135- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-7-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-7-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-7-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-B-7-	1-	680-45490-	680-44482-	05/24/2006 1448-	1.00 -	SAV-	JW-
A-PercentMoistur-	680-16600-A-7-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Laboratory Chroniclel

Client Samples:-

Lab ID:l 16600-8l **Client ID:l SB-139 (6-8')l**

Sample Date/Time:- 05/11/2006 1200- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-8-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-8-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-8-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-8-	1-	680-45491-	680-44482-	05/24/2006 1856-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-8-	2-	680-45614-	680-44482-	05/25/2006 1417-	5000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-8-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-9l **Client ID:l SB-140 (6-8')l**

Sample Date/Time:- 05/11/2006 1230- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-9-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-9-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-9-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-9-	1-	680-45491-	680-44482-	05/24/2006 1917-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-9-	2-	680-45614-	680-44482-	05/25/2006 1437-	5000.0-	SAV-	JW-
A-PercentMoistur-	680-16600-A-9-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-10l **Client ID:l SB-141 (6-8')l**

Sample Date/Time:- 05/11/2006 1300- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-10-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-10-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-10-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-B-10-	1-	680-45611-	680-44482-	05/25/2006 1743-	1.00 -	SAV-	JW-
A-PercentMoistur-	680-16600-A-10-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Laboratory Chroniclel

Client Samples:-

Lab ID:l 16600-11l Client ID:l SB-DUP-1l

Sample Date/Time:- 05/11/2006 0000- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
P-5035-	680-16600-B-11-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-C-11-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
P-5035-	680-16600-D-11-	1-	680-44482-		05/13/2006 1018-	1.00 -	SAV-	SC-
A-8260B-	680-16600-D-11-	1-	680-45491-	680-44482-	05/24/2006 1957-	40.00 -	SAV-	JW-
A-8260B-	680-16600-D-11-	2-	680-45614-	680-44482-	05/25/2006 1457-	200.00-	SAV-	JW-
A-8260B-	680-16600-D-11-	2-	680-45614-	680-44482-	05/25/2006 1622-	200.00-	SAV-	JW-
A-PercentMoistur-	680-16600-A-11-	1-	680-44741-		05/16/2006 1623-	1.00 -	SAV-	SS-

Lab ID:l 16600-12l Client ID:l Trip Blankl

Sample Date/Time:- 05/11/2006 0000- Received Date/Time:- 05/13/2006 0915-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
A-8260B-	680-16600-D-12-	1-	680-45595-		05/24/2006 2040-	1.00 -	SAV-	MY-

Lab ID:l MBl Client ID:l MBl

Sample Date/Time:- NA- Received Date/Time:- NA-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
A-8260B-		1-	680-45462-		05/23/2006 1909-	1.00 -	SAV-	MA-
A-8260B-		1-	680-45490-		05/24/2006 1147-	1.00 -	SAV-	JW-
A-8260B-		1-	680-45491-		05/24/2006 1127-	40.00 -	SAV-	JW-
A-8260B-		1-	680-45595-		05/24/2006 2000-	1.00 -	SAV-	MY-
A-8260B-		1-	680-45611-		05/25/2006 1110-	1.00 -	SAV-	JW-
A-8260B-		1-	680-45614-		05/25/2006 1049-	40.00 -	SAV-	JW-

Lab ID:l LCSl Client ID:l LCSl

Sample Date/Time:- NA- Received Date/Time:- NA-

Methodl	Bottle IDl	Runl	Analysis Batchl	Prep Batchl	Date Analyzedl	Dilutionl	Ablr	Analystl
A-8260B-		1-	680-45462-		05/23/2006 1828-	1.00 -	SAV-	MA-
A-8260B-		1-	680-45490-		05/24/2006 1046-	1.00 -	SAV-	JW-
A-8260B-		1-	680-45491-		05/24/2006 1026-	40.00 -	SAV-	JW-
A-8260B-		1-	680-45595-		05/24/2006 1919-	1.00 -	SAV-	MY-
A-8260B-		1-	680-45611-		05/25/2006 1009-	1.00 -	SAV-	JW-
A-8260B-		1-	680-45614-		05/25/2006 0949-	40.00 -	SAV-	JW-

Serial Number 90731

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT STL

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: SOWTEA IOP - SPRINGFIELD, MA	PROJECT NO.	PROJECT LOCATION (STATE): MA	PAGE 1 OF 1
STL (LAB) PROJECT MANAGER: LIZ GULIZIA	P.O. NUMBER: 10264.032	CONTRACT NO.: –	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: CARON KOLL - GBL	CLIENT PHONE: 315-446-2570	CLIENT FAX: 315-446-8053	DATE DUE _____
CLIENT NAME: CARON KOLL - GBL	CLIENT E-MAIL: CSK@GBL-INC.COM		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 6723 TOWPATH ROAD SYRACUSE, NY 13214			DATE DUE _____
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	8260b - TIC	MS/MSD									REMARKS
								4°C	4°C	PRESERVATIVE								
5-11-06	0910	SB-132 (6-8')			X			4										* DIRECT BILL TO SOWTEA
	0940	SB-133 (6-8')			X			4										SEND COPY OF RESULTS TO:
	1000	SB-134 (6-8')			X			4	8									ROY HART - SOWTEA IOP
	1020	SB-135 (6-8')			X			4										
	1050	SB-136 (6-8')			X			4										
	1120	SB-137 (6-8')			X			4										LEVEL IV, MA DEP QA FORMS
	1135	SB-138 (6-8')			X			4										
	1200	SB-139 (6-8')			X			4										
	1230	SB-140 (6-8')			X			4										
	1300	SB-141 (6-8')			X			4										
	–	SB-DUP-1			X			4										
	–	TRIP BLANK		X				8										

TEMP.: 1.6°C

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	5-11-06	1500						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
K Lu	5/13/06	0915	YES ○ NO ○		680-16600	

STL8240-680 (12/02)

LOGIN SAMPLE RECEIPT CHECK LIST1

Client: Blasland, Bouck & Lee, Inc. (BBL)-

Job Number: 680-16600-1-
Sdg Number: SIO40-

Login Number: 16600 1

Question1	T/F/NAI	CommentP
Radioactivity either was not measured or, if measured, is at or below background	NA	
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.	False	Some samples received out of hold
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.	NA	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	NA	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	NA	
Multiphasic samples are not present.	NA	
Samples do not require splitting or compositing.	NA	

Appendix C

Soil and Groundwater Data Validation Report

BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

DATA REVIEW FOR

SOLUTIA-INDIAN ORCHARD

SPRINGFIELD, MA

SDG #SIO39

VOLATILE ANALYSES

Analyses performed by:

Severn Trent Laboratories
Savannah, Georgia

Review performed by:

BBL®
an ARCADIS company

Syracuse, New York
Report #5888

Summary

The following is an assessment of the data package for sample delivery group (SDG) #SIO39 for sampling from the Solutia-Indian Orchard Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
MW-92 S	680-16530-1	Water	5/09/2006	X				
MW-84 S	680-16530-2	Water	5/09/2006	X				
MW-99 S	680-16530-3	Water	5/09/2006	X				
MW-93 B	680-16530-4	Water	5/09/2006	X				
MW-97 S	680-16530-5	Water	5/09/2006	X				
MW-58 S	680-16530-6	Water	5/09/2006	X				
MW-95 S	680-16530-7	Water	5/09/2006	X				
MW-DUP-1	680-16530-8	Water	5/09/2006	X				
MW-93 A	680-16530-9	Water	5/09/2006	X				
MW-94 S	680-16530-10	Water	5/10/2006	X				
MW-86 S	680-16530-11	Water	5/10/2006	X				
MW-85 S	680-16530-12	Water	5/10/2006	X				
MW-96 SF	680-16530-13	Water	5/10/2006	X				
MW-87 S	680-16530-14	Water	5/10/2006	X				
MW-98 D	680-16530-15	Water	5/10/2006	X				
MW-83 S	680-16530-16	Water	5/10/2006	X				
Trip Blank	680-16530-17	Water	5/10/2006	X				

Notes:

1. Matrix spike/matrix spike duplicate (MS/MSD) analyses performed on sample location MW-58 S.
2. Sample location MW-DUP-1 is the field duplicate of parent sample location MW-93 B.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999. The samples in this data set were subjected to Tier III data validation as defined in the *Region I Tiered Organic and Inorganic Data Validation Guidelines.*

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction; 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No compounds were detected in the associated blanks.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-92 S, MW-84 S MW-99 S, MW-93 B MW-97 S, MW-58 S MW-95 S, MW-DUP-1	CCV %D	Chloroethane	22.4%
MW-93 A, MW-94 S MW-86 S, MW-85 S MW-96 SF, MW-87 S MW-98 D, MW-83 S Trip Blank	CCV %D	Acetone	30.3%
		Carbon disulfide	29.1%
		2-Butanone	22.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e.

ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All sample locations exhibited internal standards responses within the control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-93 B / MW-DUP-1	All compounds	ND	ND	AC

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-92 S	Ethylbenzene	2300 E	2100 D	2100 D
MW-83 S	Ethylbenzene	490 E	660 D	660 D

Sample results associated with compounds exhibiting concentration greater than the linear range qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 66			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 33			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?		X	
Are trip/field/rinse blanks associated with every sample?	X		
Do any trip/field/rinse blanks have positive results?		X	
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		

	YES	NO	NA
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?			X
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?			X
Do the samples and standard relative ion intensities agree within 20%?			X
Tentatively Identified Compounds			
Are all the TIC summary forms present?	X		
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
Do the TIC and "best match" spectrum agree within 20%?	X		
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRFs at minimum requirements?	X		

	YES	NO	NA
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF at minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

CORRECTED SAMPLE ANALYSIS DATA SHEETS

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-92 S**

Lab Sample ID: 680-16530-1
Client Matrix: Water

Date Sampled: 05/09/2006 1120
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 05/22/2006 1827
Date Prepared: 05/22/2006 1827

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0105.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	5.0	U	4.7	5.0
Chloromethane	5.0	U	2.7	5.0
Vinyl chloride	5.0	U	4.6	5.0
Chloroethane	5.0	U	4.5	5.0
Methylene Chloride	25	U	2.2	25
Acetone	130	U	37	130
Carbon disulfide	10	U	3.8	10
1,1-Dichloroethene	5.0	U	4.7	5.0
1,1-Dichloroethane	5.0	U	2.8	5.0
1,2-Dichloroethene, cis-, trans-	10	U	6.0	10
Chloroform	5.0	U	2.6	5.0
1,2-Dichloroethane	5.0	U	1.4	5.0
2-Butanone (MEK)	50	U	3.6	50
1,1,1-Trichloroethane	5.0	U	4.0	5.0
Carbon tetrachloride	5.0	U	4.6	5.0
Bromodichloromethane	5.0	U	2.1	5.0
1,1,2,2-Tetrachloroethane	5.0	U	1.1	5.0
1,2-Dichloropropane	5.0	U	1.3	5.0
trans-1,3-Dichloropropene	5.0	U	1.8	5.0
Trichloroethene	5.0	U	3.6	5.0
Dibromochloromethane	5.0	U	2.0	5.0
1,1,2-Trichloroethane	5.0	U	1.9	5.0
Benzene	5.0	U	2.7	5.0
cis-1,3-Dichloropropene	5.0	U	2.1	5.0
Bromoform	5.0	U	1.8	5.0
2-Hexanone	50	U	2.0	50
4-Methyl-2-pentanone (MIBK)	50	U	2.3	50
Tetrachloroethene	5.0	U	3.8	5.0
Toluene	5.0	U	3.1	5.0
Chlorobenzene	5.0	U	2.1	5.0
Ethylbenzene	~~2300~~ 2100	~~E~~ D	3.1	5.0
Styrene	5.0	U	2.1	5.0
Xylenes, Total	10	U	6.5	10

Surrogate	%Rec	Acceptance Limits
Toluene-d8	92	79 - 122
4-Bromofluorobenzene	89	77 - 120
Dibromofluoromethane	97	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-92 S**

Lab Sample ID: 680-16530-1
Client Matrix: Water

Date Sampled: 05/09/2006 1120
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 05/23/2006 0947
Date Prepared: 05/23/2006 0947

Analysis Batch: 680-45329
Run Type: DL

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0159.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	25	U	23	25
Chloromethane	25	U	13	25
Vinyl chloride	25	U	23	25
Chloroethane	25	U	22	25
Methylene Chloride	130	U	11	130
Acetone	630	U	180	630
Carbon disulfide	50	U	19	50
1,1-Dichloroethene	25	U	23	25
1,1-Dichloroethane	25	U	14	25
1,2-Dichloroethene, cis-, trans-	50	U	30	50
Chloroform	25	U	13	25
1,2-Dichloroethane	25	U	7.0	25
2-Butanone (MEK)	250	U	18	250
1,1,1-Trichloroethane	25	U	20	25
Carbon tetrachloride	25	U	23	25
Bromodichloromethane	25	U	11	25
1,1,2,2-Tetrachloroethane	25	U	5.3	25
1,2-Dichloropropane	25	U	6.5	25
trans-1,3-Dichloropropene	25	U	9.0	25
Trichloroethene	25	U	18	25
Dibromochloromethane	25	U	10	25
1,1,2-Trichloroethane	25	U	9.3	25
Benzene	25	U	14	25
cis-1,3-Dichloropropene	25	U	10	25
Bromoform	25	U	9.0	25
2-Hexanone	250	U	9.8	250
4-Methyl-2-pentanone (MIBK)	250	U	11	250
Tetrachloroethene	25	U	19	25
Toluene	25	U	16	25
Chlorobenzene	25	U	10	25
Ethylbenzene	2100	D	16	25
Styrene	25	U	11	25
Xylenes, Total	50	U	33	50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	96	79 - 122
4-Bromofluorobenzene	92	77 - 120
Dibromofluoromethane	92	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-84 S**

Lab Sample ID: 680-16530-2
Client Matrix: Water

Date Sampled: 05/09/2006 1245
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 1855
Date Prepared: 05/22/2006 1855

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0107.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	95	79 - 122
4-Bromofluorobenzene	88	77 - 120
Dibromofluoromethane	94	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-99 S**

Lab Sample ID: 680-16530-3
Client Matrix: Water

Date Sampled: 05/09/2006 1345
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 1923
Date Prepared: 05/22/2006 1923

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0109.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	94	79 - 122
4-Bromofluorobenzene	90	77 - 120
Dibromofluoromethane	92	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-93 B**

Lab Sample ID: 680-16530-4
Client Matrix: Water

Date Sampled: 05/09/2006 1425
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 1951
Date Prepared: 05/22/2006 1951

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0111.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	96	79 - 122
4-Bromofluorobenzene	86	77 - 120
Dibromofluoromethane	90	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-97 S**

Lab Sample ID: 680-16530-5
Client Matrix: Water

Date Sampled: 05/09/2006 1445
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 2019
Date Prepared: 05/22/2006 2019

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0113.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	94	79 - 122
4-Bromofluorobenzene	88	77 - 120
Dibromofluoromethane	90	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-58 S**

Lab Sample ID: 680-16530-6
Client Matrix: Water

Date Sampled: 05/09/2006 1540
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 2047
Date Prepared: 05/22/2006 2047

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0115.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	5.1		0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	94	79 - 122
4-Bromofluorobenzene	90	77 - 120
Dibromofluoromethane	90	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-95 S**

Lab Sample ID: 680-16530-7
Client Matrix: Water

Date Sampled: 05/09/2006 1551
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 2211
Date Prepared: 05/22/2006 2211

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0121.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	93	79 - 122
4-Bromofluorobenzene	86	77 - 120
Dibromofluoromethane	91	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-DUP-1**

Lab Sample ID: 680-16530-8
Client Matrix: Water

Date Sampled: 05/09/2006 0000
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/22/2006 2238
Date Prepared: 05/22/2006 2238

Analysis Batch: 680-45297

Instrument ID: GC/MS Volatiles - P
Lab File ID: p0123.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	95	79 - 122
4-Bromofluorobenzene	87	77 - 120
Dibromofluoromethane	90	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-93 A**

Lab Sample ID: 680-16530-9
Client Matrix: Water

Date Sampled: 05/10/2006 0900
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 0902
Date Prepared: 05/23/2006 0902

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0467.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	190		0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	2.4		0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.1		0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	105	79 - 122
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	107	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-94 S**

Lab Sample ID: 680-16530-10
Client Matrix: Water

Date Sampled: 05/10/2006 0935
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 0923
Date Prepared: 05/23/2006 0923

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0468.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	11	J	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	0.90	J	0.62	1.0
Chlorobenzene	1.3		0.41	1.0
Ethylbenzene	50		0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	3.1		1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	105	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-86 S**

Lab Sample ID: 680-16530-11
Client Matrix: Water

Date Sampled: 05/10/2006 1145
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 05/23/2006 1459
Date Prepared: 05/23/2006 1459

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0484.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	50	U	47	50
Chloromethane	50	U	27	50
Vinyl chloride	50	U	46	50
Chloroethane	50	U	45	50
Methylene Chloride	250	U	22	250
Acetone	1300	U	370	1300
Carbon disulfide	100	U	38	100
1,1-Dichloroethene	50	U	47	50
1,1-Dichloroethane	50	U	28	50
1,2-Dichloroethene, cis-, trans-	100	U	60	100
Chloroform	50	U	26	50
1,2-Dichloroethane	50	U	14	50
2-Butanone (MEK)	500	U	36	500
1,1,1-Trichloroethane	50	U	40	50
Carbon tetrachloride	50	U	46	50
Bromodichloromethane	50	U	21	50
1,1,2,2-Tetrachloroethane	50	U	11	50
1,2-Dichloropropane	50	U	13	50
trans-1,3-Dichloropropene	50	U	18	50
Trichloroethene	50	U	36	50
Dibromochloromethane	50	U	20	50
1,1,2-Trichloroethane	50	U	19	50
Benzene	50	U	27	50
cis-1,3-Dichloropropene	50	U	21	50
Bromoform	50	U	18	50
2-Hexanone	500	U	20	500
4-Methyl-2-pentanone (MIBK)	500	U	23	500
Tetrachloroethene	50	U	38	50
Toluene	50	U	31	50
Chlorobenzene	54		21	50
Ethylbenzene	6100		31	50
Styrene	1800		21	50
Xylenes, Total	100	U	65	100

Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	79 - 122
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	104	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW- 85 S**

Lab Sample ID: 680-16530-12
Client Matrix: Water

Date Sampled: 05/10/2006 1155
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 1108
Date Prepared: 05/23/2006 1108

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0473.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	106	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-96 SF**

Lab Sample ID: 680-16530-13
Client Matrix: Water

Date Sampled: 05/10/2006 1410
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 1156
Date Prepared: 05/23/2006 1156

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0475.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.8		0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	4.0		0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	6.5		1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.3		0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	3.0	J	0.45	10
Tetrachloroethene	4.0		0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	104	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-87 S**

Lab Sample ID: 680-16530-14
Client Matrix: Water

Date Sampled: 05/10/2006 1518
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 1217
Date Prepared: 05/23/2006 1217

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0476.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	0.54	J	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	29		0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	105	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-98 D**

Lab Sample ID: 680-16530-15
Client Matrix: Water

Date Sampled: 05/10/2006 1540
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 1048
Date Prepared: 05/23/2006 1048

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0472.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	9.7		0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	105	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-83 S**

Lab Sample ID: 680-16530-16
Client Matrix: Water

Date Sampled: 05/10/2006 1620
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 1237
Date Prepared: 05/23/2006 1237

Analysis Batch: 680-45335

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0477.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	73		0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	3.2		1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	10		0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.1		0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	~~490~~ 100	~~E~~ D	0.62	1.0
Styrene	0.82	J	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	103	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **MW-83 S**

Lab Sample ID: 680-16530-16
Client Matrix: Water

Date Sampled: 05/10/2006 1620
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 05/23/2006 2354
Date Prepared: 05/23/2006 2354

Analysis Batch: 680-45462
Run Type: DL

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0502.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	5.0	U	4.7	5.0
Chloromethane	5.0	U	2.7	5.0
Vinyl chloride	61	D	4.6	5.0
Chloroethane	5.0	U	4.5	5.0
Methylene Chloride	25	U	2.2	25
Acetone	130	U	37	130
Carbon disulfide	10	U	3.8	10
1,1-Dichloroethene	5.0	U	4.7	5.0
1,1-Dichloroethane	5.0	U	2.8	5.0
1,2-Dichloroethene, cis-, trans-	10	U	6.0	10
Chloroform	5.0	U	2.6	5.0
1,2-Dichloroethane	11	D	1.4	5.0
2-Butanone (MEK)	50	U	3.6	50
1,1,1-Trichloroethane	5.0	U	4.0	5.0
Carbon tetrachloride	5.0	U	4.6	5.0
Bromodichloromethane	5.0	U	2.1	5.0
1,1,2,2-Tetrachloroethane	5.0	U	1.1	5.0
1,2-Dichloropropane	5.0	U	1.3	5.0
trans-1,3-Dichloropropene	5.0	U	1.8	5.0
Trichloroethene	5.0	U	3.6	5.0
Dibromochloromethane	5.0	U	2.0	5.0
1,1,2-Trichloroethane	5.0	U	1.9	5.0
Benzene	5.0	U	2.7	5.0
cis-1,3-Dichloropropene	5.0	U	2.1	5.0
Bromoform	5.0	U	1.8	5.0
2-Hexanone	50	U	2.0	50
4-Methyl-2-pentanone (MIBK)	50	U	2.3	50
Tetrachloroethene	5.0	U	3.8	5.0
Toluene	5.0	U	3.1	5.0
Chlorobenzene	5.0	U	2.1	5.0
Ethylbenzene	660	D	3.1	5.0
Styrene	5.0	U	2.1	5.0
Xylenes, Total	10	U	6.5	10

Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	79 - 122
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	104	75 - 123

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16530-1
Sdg Number: SIO39

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 680-16530-17
Client Matrix: Water

Date Sampled: 05/10/2006 0000
Date Received: 05/11/2006 0922

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/23/2006 1929
Date Prepared: 05/23/2006 1929

Analysis Batch: 680-45462

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0489.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	1.0	U	0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	1.0	U	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	79 - 122
4-Bromofluorobenzene	94	77 - 120
Dibromofluoromethane	104	75 - 123

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-92 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0105

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	84	JNB
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-92 S DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-1DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0159

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 25.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	270	JNBD
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-84 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-2

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0107

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	12	JNB
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-99 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-3

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0109

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	9.3	JNB
2.				
3.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-93 B

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO39

Matrix: (soil/water) WATER Client Desc: 680-16530-A-4

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0111

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	23	JNB
2.	UNKNOWN	1.55	12	J
3.	UNKNOWN	6.35	6.2	J
4.	UNKNOWN	8.28	26	J
5.	UNKNOWN	10.05	8.6	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-97 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-5

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0113

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	7.9	JNB
2.				
3.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-58 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-6

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0115

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	17	JNB
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-95 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO39

Matrix: (soil/water) WATER Client Desc: 680-16530-A-7

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0121

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	11	JNB
2.				
3.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-DUP-1

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-8

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P0123

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/22/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	22	JNB
2.	UNKNOWN	6.35	5.6	J
3.	UNKNOWN	10.16	6.1	J
4.				
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-93 A

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-9

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0467

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	48	JB
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-94 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-A-10

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0468

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	77	JNB
2.	UNKNOWN	1.22	9.3	J
3.	UNKNOWN	3.84	10	J
4.	UNKNOWN	4.01	5.2	J
5.	UNKNOWN	7.88	200	J
6.	UNKNOWN	8.10	12	J
7.	UNKNOWN	9.56	7.0	J
8.	UNKNOWN	9.84	8.7	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-86S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-11

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0484

Level: (low/med) LOW Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 50.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	5800	JNB
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW- 85 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-12

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0473

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	20	JNB
2.	UNKNOWN	1.22	12	J
3.				
4.				
5.				
6.				
7.				
8.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-96 SF

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-13

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0475

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	26	JNB
2.	UNKNOWN	1.95	50	J
3.	UNKNOWN	7.95	370	J
4.	UNKNOWN	9.31	8.1	J
5.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-87 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-14

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0476

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	31	JNB
2.	UNKNOWN	1.23	7.9	J
3.	UNKNOWN	2.71	15	J
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-98 D

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-15

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0472

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	25	JNB
2.				
3.				
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-83 S

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-16

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0477

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	52	JNB
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

MW-83 SDL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-B-16

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0477

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	170	JNB
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

TRIP BLANK

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI039

Matrix: (soil/water) WATER Client Desc: 680-16530-C-17

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0489

Level: (low/med) LOW Date Received: 05/11/06

% Moisture: not dec. _____ Date Analyzed: 05/23/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	7.2	JNB
2.	UNKNOWN	1.22	6.7	J
3.				
4.				
5.				
6.				
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FORM I VOA-TIC

DATA REVIEW FOR

SOLUTIA-INDIAN ORCHARD

SPRINGFIELD, MA

SDG #SIO40

VOLATILE ANALYSES

Analyses performed by:

Severn Trent Laboratories
Savannah, Georgia

Review performed by:

BBL®

an ARCADIS company

Syracuse, New York
Report #5893

Summary

The following is an assessment of the data package for sample delivery group (SDG) #SIO40 for sampling from the Solutia-Indian Orchard Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
SB-132 (6-8')	680-16600-1	Soil	5/11/2006	X				
SB-133 (6-8')	680-16600-2	Soil	5/11/2006	X				
SB-134 (6-8')	680-16600-3	Soil	5/11/2006	X				
SB-135 (6-8')	680-16600-4	Soil	5/11/2006	X				
SB-136 (6-8')	680-16600-5	Soil	5/11/2006	X				
SB-137 (6-8')	680-16600-6	Soil	5/11/2006	X				
SB-138 (6-8')	680-16600-7	Soil	5/11/2006	X				
SB-139 (6-8')	680-16600-8	Soil	5/11/2006	X				
SB-140 (6-8')	680-16600-9	Soil	5/11/2006	X				
SB-141 (6-8')	680-16600-10	Soil	5/11/2006	X				
SB-DUP-1	680-16600-11FD	Soil	5/11/2006	X				
Trip Blank	680-16600-12TB	Water	5/11/2006	X				

Notes:

1. Matrix spike/matrix spike duplicate (MS/MSD) analyses performed on sample location SB-132 (6-8').
2. Sample location SB-DUP-1 is the field duplicate of parent sample location SB-135 (6-8').

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999. The samples in this data set were subjected to Tier III data validation as defined in the *Region I Tiered Organic and Inorganic Data Validation Guidelines.*

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction; 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

As documented in the USEPA Region I Data Validation Guidelines, aqueous QA blank samples, such as trip and rinse blanks, are not used to calculate a blank action contamination when associated with non-aqueous samples.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with the following sample locations were qualified.

Sample Locations	Compounds	Sample Result	Qualification
SB-133 (6-8') SB-134 (6-8') SB-135 (6-8') SB-136 (6-8') SB-137 (6-8') SB-139 (6-8') SB-140 (6-8') SB-DUP-1	Vinyl chloride Toluene	Detected in Trip Blank	TB
SB-138 (6-8') SB-141 (6-8')	Vinyl chloride		

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
Trip Blank	CCV %D	Bromomethane	-29.1%
SB-138 (6-8') SB-134 (6-8') SB-135 (6-8')	CCV %D	Acetone	40.2%
SB-136 (6-8') SB-137 (6-8') SB-139 (6-8') SB-140 (6-8') SB-DUP-1	CCV %D	Acetone	40.2%
SB-132 (6-8') SB-141 (6-8') SB-133 (6-8')	CCV %D	Acetone	33.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Surrogate	Recovery
SB-133 (6-8')	Toluene-d8	< LL but > 10%
	4-Bromofluorobenzene	< LL but > 10%
	Dibromofluoromethane	AC

Acceptable (AC)

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL (upper limit)	Non-detect	No Action
	Detect	J
< LL (lower limit) but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J

Control Limit	Sample Result	Qualification
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All sample locations exhibited internal standards responses within the control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-132 (6-8')	Chloroethane	> UL	> UL

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No Action
	Non-detect	
< 10%	Non-detect	R
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-135 (6-8') / SB-DUP-1	Vinyl chloride	230	830	NC
	1,2-Dichloroethan	170 J	ND (190)	AC
	Trichloroethene	120 J	ND (190)	AC
	Toluene	130 J	75 J	AC
	Ethylbenzene	29000 D	25000 D	14.8%
	Styrene	320	190	50.9%
	1,2-Dichloroethene, cis-, trans-	130 J	79 J	AC

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.
NC = Non-compliant.

The RPD between the parent sample and field duplicate were unacceptable for vinyl chloride. Sample results for vinyl chloride were qualified as estimated associated with sample locations SB-135 (6-8') and SB-DUP-1.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-133 (6-8')	Vinyl chloride	180000 E	320000 D	320000 D

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-133 (6-8')	1,2-Dichloroethane	100000 E	120000 D	120000 D
	1,2-Dichloroethene, cis-, trans-	100000 E	120000 D	120000 D
SB-134 (6-8')	Vinyl chloride	210000 E	310000 D	310000 D
	1,2-Dichloroethene, cis-, trans-	120000 E	150000 D	150000 D
SB-135 (6-8')	Ethylbenzene	23000 E	29000 D	29000 D
SB-136 (6-8')	Vinyl chloride	98000 E	120000 D	120000 D
	1,2-Dichloroethene, cis-, trans-	68000 E	86000 D	86000 D
SB-137 (6-8')	Vinyl chloride	97000 E	100000 D	100000 D
	Trichloroethene	13000 E	16000 D	16000 D
	1,2-Dichloroethene, cis-, trans-	70000 E	87000 D	87000 D
SB-139 (6-8')	Vinyl chloride	150000 E	480000 D	480000 D
	1,2-Dichloroethene, cis-, trans-	91000 E	150000 D	150000 D
SB-140 (6-8')	Vinyl chloride	190000 E	550000 D	550000 D
	1,2-Dichloroethane	44000 E	52000 D	52000 D
	1,2-Dichloroethene, cis-, trans-	110000 E	160000 D	160000 D
SB-DUP-1	Ethylbenzene	15000 E	25000 D	25000 D

Sample results associated with compounds exhibiting concentration greater than the linear range qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?	X		
If yes, were the samples reanalyzed?	X		
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
2 out of 66			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 33			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?	X		
Are trip/field/rinse blanks associated with every sample?	X		
Do any trip/field/rinse blanks have positive results?	X		
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		

	YES	NO	NA
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?	X		
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
Do the TIC and "best match" spectrum agree within 20%?	X		
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRFs at minimum requirements?	X		

	YES	NO	NA
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF at minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

CORRECTED SAMPLE ANALYSIS DATA SHEETS

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-132 (6-8')**

Lab Sample ID: 680-16600-1
Client Matrix: Solid % Moisture: 5.9

Date Sampled: 05/11/2006 0910
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 05/25/2006 1722
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45611
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0072.d
Initial Weight/Volume: 5.2 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		5.1	U	0.72	5.1
Bromomethane		5.1	U	1.3	5.1
Vinyl chloride		5.1	U	0.94	5.1
Chloroethane		5.1	U	1.5	5.1
Methylene Chloride		5.1	U	1.6	5.1
Acetone		51	U	3.1	51
Carbon disulfide		5.1	U	1.0	5.1
1,1-Dichloroethene		5.1	U	1.1	5.1
1,1-Dichloroethane		5.1	U	1.0	5.1
Chloroform		5.1	U	0.90	5.1
1,2-Dichloroethane		5.1	U	1.2	5.1
Methyl Ethyl Ketone		26	U	4.1	26
1,1,1-Trichloroethane		5.1	U	0.87	5.1
Carbon tetrachloride		5.1	U	0.91	5.1
Dichlorobromomethane		5.1	U	1.0	5.1
1,1,2,2-Tetrachloroethane		5.1	U	1.0	5.1
1,2-Dichloropropane		5.1	U	1.3	5.1
trans-1,3-Dichloropropene		5.1	U	1.1	5.1
Trichloroethene		5.1	U	1.2	5.1
Chlorodibromomethane		5.1	U	1.1	5.1
1,1,2-Trichloroethane		5.1	U	1.2	5.1
Benzene		5.1	U	0.88	5.1
cis-1,3-Dichloropropene		5.1	U	0.93	5.1
Bromoform		5.1	U	2.2	5.1
2-Hexanone		26	U	5.5	26
methyl isobutyl ketone		26	U	5.9	26
Tetrachloroethene		5.1	U	1.0	5.1
Toluene		5.1	U	1.0	5.1
Chlorobenzene		5.1	U	0.71	5.1
Ethylbenzene		5.1	U	0.89	5.1
Styrene		5.1	U	0.87	5.1
Xylenes, Total		10	U	2.0	10
1,2-Dichloroethene, cis-, trans-		10	U	1.7	10

Surrogate	%Rec	Acceptance Limits
Toluene-d8	91	65 - 128
4-Bromofluorobenzene	87	68 - 121
Dibromofluoromethane	102	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: SB-133 (6-8')

Lab Sample ID: 680-16600-2
Client Matrix: Solid % Moisture: 13.5

Date Sampled: 05/11/2006 0940
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/25/2006 1154
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0058.d
Initial Weight/Volume: 4.6 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		250	U J	35	250
Bromomethane		250	U J	65	250
Vinyl chloride		~~180000~~ 320000	~~E~~ D TB	46	250
Chloroethane		250	U J	75	250
Methylene Chloride		250	U J	80	250
Acetone		~~800~~	~~J B~~ UJ	150	2500
Carbon disulfide		250	U J	50	250
1,1-Dichloroethene		320	J	55	250
1,1-Dichloroethane		250	U J	50	250
Chloroform		230	J	44	250
1,2-Dichloroethane		~~100000~~ 120000	~~E~~ D	60	250
Methyl Ethyl Ketone		1300	U J	200	1300
1,1,1-Trichloroethane		250	U J	43	250
Carbon tetrachloride		250	U J	45	250
Dichlorobromomethane		250	U J	50	250
1,1,2,2-Tetrachloroethane		250	U J	50	250
1,2-Dichloropropane		250	U J	65	250
trans-1,3-Dichloropropene		250	U J	55	250
Trichloroethene		230	J	60	250
Chlorodibromomethane		250	U J	55	250
1,1,2-Trichloroethane		250	U J	60	250
Benzene		250	U J	43	250
cis-1,3-Dichloropropene		250	U J	46	250
Bromoform		250	U J	110	250
2-Hexanone		1300	U J	270	1300
methyl isobutyl ketone		1300	U J	290	1300
Tetrachloroethene		250	U J	50	250
Toluene		100	J TB	50	250
Chlorobenzene		250	U J	35	250
Ethylbenzene		80	J	44	250
Styrene		250	U J	43	250
Xylenes, Total		180	J	100	500
1,2-Dichloroethene, cis-, trans-		~~100000~~ 120000	~~E~~ D	85	500

Surrogate	%Rec		Acceptance Limits
Toluene-d8	57	*	65 - 128
4-Bromofluorobenzene	50	*	68 - 121
Dibromofluoromethane	71		66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-133 (6-8')**

Lab Sample ID: 680-16600-2
Client Matrix: Solid % Moisture: 13.5

Date Sampled: 05/11/2006 0940
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 2000
Date Analyzed: 05/25/2006 1541
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0067.d
Initial Weight/Volume: 4.6 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		13000	U	1800	13000
Bromomethane		13000	U	3300	13000
Vinyl chloride		320000	D	2300	13000
Chloroethane		13000	U	3800	13000
Methylene Chloride		13000	U	4000	13000
Acetone		130000	U	7500	130000
Carbon disulfide		13000	U	2500	13000
1,1-Dichloroethene		13000	U	2800	13000
1,1-Dichloroethane		13000	U	2500	13000
Chloroform		13000	U	2200	13000
1,2-Dichloroethane		120000	D	3000	13000
Methyl Ethyl Ketone		63000	U	10000	63000
1,1,1-Trichloroethane		13000	U	2100	13000
Carbon tetrachloride		13000	U	2200	13000
Dichlorobromomethane		13000	U	2500	13000
1,1,2,2-Tetrachloroethane		13000	U	2500	13000
1,2-Dichloropropane		13000	U	3300	13000
trans-1,3-Dichloropropene		13000	U	2800	13000
Trichloroethene		13000	U	3000	13000
Chlorodibromomethane		13000	U	2800	13000
1,1,2-Trichloroethane		13000	U	3000	13000
Benzene		13000	U	2200	13000
cis-1,3-Dichloropropene		13000	U	2300	13000
Bromoform		13000	U	5500	13000
2-Hexanone		63000	U	14000	63000
methyl isobutyl ketone		63000	U	15000	63000
Tetrachloroethene		13000	U	2500	13000
Toluene		13000	U	2500	13000
Chlorobenzene		13000	U	1700	13000
Ethylbenzene		13000	U	2200	13000
Styrene		13000	U	2100	13000
Xylenes, Total		25000	U	5000	25000
1,2-Dichloroethene, cis-, trans-		120000	D	4300	25000

Surrogate	%Rec		Acceptance Limits
Toluene-d8	0	D	65 - 128
4-Bromofluorobenzene	0	D	68 - 121
Dibromofluoromethane	0	D	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: SB-134 (6-8')

Lab Sample ID: 680-16600-3
Client Matrix: Solid % Moisture: 13.1

Date Sampled: 05/11/2006 1000
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1654
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0046.d
Initial Weight/Volume: 4.5 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		260	U	36	260
Bromomethane		260	U	66	260
Vinyl chloride		~~210000~~ 310000	ED TB	47	260
Chloroethane		260	U	77	260
Methylene Chloride		260	U	82	260
Acetone		2600	U	150	2600
Carbon disulfide		260	U	51	260
1,1-Dichloroethene		340		56	260
1,1-Dichloroethane		260	U	51	260
Chloroform		260	U	45	260
1,2-Dichloroethane		150	J	61	260
Methyl Ethyl Ketone		1300	U	200	1300
1,1,1-Trichloroethane		260	U	43	260
Carbon tetrachloride		260	U	46	260
Dichlorobromomethane		260	U	51	260
1,1,2,2-Tetrachloroethane		260	U	51	260
1,2-Dichloropropane		260	U	66	260
trans-1,3-Dichloropropene		260	U	56	260
Trichloroethene		210	J	61	260
Chlorodibromomethane		260	U	56	260
1,1,2-Trichloroethane		260	U	61	260
Benzene		260	U	44	260
cis-1,3-Dichloropropene		260	U	47	260
Bromoform		260	U	110	260
2-Hexanone		1300	U	280	1300
methyl isobutyl ketone		1300	U	300	1300
Tetrachloroethene		260	U	51	260
Toluene		55	J TB	51	260
Chlorobenzene		260	U	35	260
Ethylbenzene		100	J	44	260
Styrene		260	U	43	260
Xylenes, Total		360	J	100	510
1,2-Dichloroethene, cis-, trans-		~~120000~~ 150000	ED	87	510

Surrogate	%Rec	Acceptance Limits
Toluene-d8	107	65 - 128
4-Bromofluorobenzene	91	68 - 121
Dibromofluoromethane	98	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: SB-134 (6-8')

Lab Sample ID: 680-16600-3
Client Matrix: Solid
% Moisture: 13.1

Date Sampled: 05/11/2006 1000
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 5000
Date Analyzed: 05/25/2006 1601
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0068.d
Initial Weight/Volume: 4.5 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		32000	U	4500	32000
Bromomethane		32000	U	8300	32000
Vinyl chloride		310000	D	5900	32000
Chloroethane		32000	U	9600	32000
Methylene Chloride		32000	U	10000	32000
Acetone		320000	U	19000	320000
Carbon disulfide		32000	U	6400	32000
1,1-Dichloroethene		32000	U	7000	32000
1,1-Dichloroethane		32000	U	6400	32000
Chloroform		32000	U	5600	32000
1,2-Dichloroethane		32000	U	7700	32000
Methyl Ethyl Ketone		160000	U	26000	160000
1,1,1-Trichloroethane		32000	U	5400	32000
Carbon tetrachloride		32000	U	5700	32000
Dichlorobromomethane		32000	U	6400	32000
1,1,2,2-Tetrachloroethane		32000	U	6400	32000
1,2-Dichloropropane		32000	U	8300	32000
trans-1,3-Dichloropropene		32000	U	7000	32000
Trichloroethene		32000	U	7700	32000
Chlorodibromomethane		32000	U	7000	32000
1,1,2-Trichloroethane		32000	U	7700	32000
Benzene		32000	U	5500	32000
cis-1,3-Dichloropropene		32000	U	5800	32000
Bromoform		32000	U	14000	32000
2-Hexanone		160000	U	35000	160000
methyl isobutyl ketone		160000	U	37000	160000
Tetrachloroethene		32000	U	6400	32000
Toluene		13000	JD	6400	32000
Chlorobenzene		32000	U	4400	32000
Ethylbenzene		32000	U	5600	32000
Styrene		32000	U	5400	32000
Xylenes, Total		64000	U	13000	64000
1,2-Dichloroethene, cis-, trans-		150000	D	11000	64000

Surrogate	%Rec		Acceptance Limits
Toluene-d8	0	D	65 - 128
4-Bromofluorobenzene	0	D	68 - 121
Dibromofluoromethane	0	D	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-135 (6-8')**

Lab Sample ID: 680-16600-4
Client Matrix: Solid
% Moisture: 13.3

Date Sampled: 05/11/2006 1020
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1755
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0049.d
Initial Weight/Volume: 5.8 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		200	U	28	200
Bromomethane		200	U	52	200
Vinyl chloride		230	JTB ~~J~~ ~~B~~	37	200
Chloroethane		200	U	60	200
Methylene Chloride		200	U	64	200
Acetone		~~660~~	~~JB~~ U	120	2000
Carbon disulfide		200	U	40	200
1,1-Dichloroethene		200	U	44	200
1,1-Dichloroethane		200	U	40	200
Chloroform		200	U	35	200
1,2-Dichloroethane		170	J	48	200
Methyl Ethyl Ketone		990	U	160	990
1,1,1-Trichloroethane		200	U	34	200
Carbon tetrachloride		200	U	35	200
Dichlorobromomethane		200	U	40	200
1,1,2,2-Tetrachloroethane		200	U	40	200
1,2-Dichloropropane		200	U	52	200
trans-1,3-Dichloropropene		200	U	44	200
Trichloroethene		120	J	48	200
Chlorodibromomethane		200	U	44	200
1,1,2-Trichloroethane		200	U	48	200
Benzene		200	U	34	200
cis-1,3-Dichloropropene		200	U	36	200
Bromoform		200	U	87	200
2-Hexanone		990	U	210	990
methyl isobutyl ketone		990	U	230	990
Tetrachloroethene		200	U	40	200
Toluene		130	J TB	40	200
Chlorobenzene		200	U	27	200
Ethylbenzene		~~23000~~ 29000	~~E~~ D	35	200
Styrene		320		34	200
Xylenes, Total		400	U	80	400
1,2-Dichloroethene, cis-, trans-		130	J	68	400

Surrogate	%Rec	Acceptance Limits
Toluene-d8	117	65 - 128
4-Bromofluorobenzene	108	68 - 121
Dibromofluoromethane	108	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-135 (6-8')**

Lab Sample ID: 680-16600-4
Client Matrix: Solid % Moisture: 13.3

Date Sampled: 05/11/2006 1020
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 05/25/2006 1235
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0060.d
Initial Weight/Volume: 5.8 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		990	U	140	990
Bromomethane		990	U	260	990
Vinyl chloride		990	U	180	990
Chloroethane		990	U	300	990
Methylene Chloride		990	U	320	990
Acetone		2200	JD B	600	9900
Carbon disulfide		990	U	200	990
1,1-Dichloroethene		990	U	220	990
1,1-Dichloroethane		990	U	200	990
Chloroform		990	U	170	990
1,2-Dichloroethane		990	U	240	990
Methyl Ethyl Ketone		5000	U	800	5000
1,1,1-Trichloroethane		990	U	170	990
Carbon tetrachloride		990	U	180	990
Dichlorobromomethane		990	U	200	990
1,1,2,2-Tetrachloroethane		990	U	200	990
1,2-Dichloropropane		990	U	260	990
trans-1,3-Dichloropropene		990	U	220	990
Trichloroethene		990	U	240	990
Chlorodibromomethane		990	U	220	990
1,1,2-Trichloroethane		990	U	240	990
Benzene		990	U	170	990
cis-1,3-Dichloropropene		990	U	180	990
Bromoform		990	U	440	990
2-Hexanone		5000	U	1100	5000
methyl isobutyl ketone		5000	U	1200	5000
Tetrachloroethene		990	U	200	990
Toluene		410	JD	200	990
Chlorobenzene		990	U	140	990
Ethylbenzene		29000	D	170	990
Styrene		300	JD	170	990
Xylenes, Total		2000	U	400	2000
1,2-Dichloroethene, cis-, trans-		2000	U	340	2000

Surrogate	%Rec	Acceptance Limits
Toluene-d8	99	65 - 128
4-Bromofluorobenzene	81	68 - 121
Dibromofluoromethane	96	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-136 (6-8')**

Lab Sample ID: 680-16600-5
Client Matrix: Solid % Moisture: 24.9

Date Sampled: 05/11/2006 1050
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1815
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0050.d
Initial Weight/Volume: 5.3 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		250	U	35	250
Bromomethane		250	U	65	250
Vinyl chloride		~~98000~~ 120000	~~E~~ D TB	46	250
Chloroethane		250	U	75	250
Methylene Chloride		250	U	80	250
Acetone		~~810~~	~~J B~~ U	150	2500
Carbon disulfide		250	U	50	250
1,1-Dichloroethene		160	J	55	250
1,1-Dichloroethane		250	U	50	250
Chloroform		250	U	44	250
1,2-Dichloroethane		120	J	60	250
Methyl Ethyl Ketone		1300	U	200	1300
1,1,1-Trichloroethane		250	U	43	250
Carbon tetrachloride		250	U	45	250
Dichlorobromomethane		250	U	50	250
1,1,2,2-Tetrachloroethane		250	U	50	250
1,2-Dichloropropane		250	U	65	250
trans-1,3-Dichloropropene		250	U	55	250
Trichloroethene		2700		60	250
Chlorodibromomethane		250	U	55	250
1,1,2-Trichloroethane		250	U	60	250
Benzene		250	U	43	250
cis-1,3-Dichloropropene		250	U	46	250
Bromoform		250	U	110	250
2-Hexanone		1300	U	270	1300
methyl isobutyl ketone		1300	U	290	1300
Tetrachloroethene		250	U	50	250
Toluene		130	J TB	50	250
Chlorobenzene		250	U	35	250
Ethylbenzene		230	J	44	250
Styrene		250	U	43	250
Xylenes, Total		140	J	100	500
1,2-Dichloroethene, cis-, trans-		~~68000~~ 86000	~~E~~ D	85	500

Surrogate	%Rec	Acceptance Limits
Toluene-d8	95	65 - 128
4-Bromofluorobenzene	86	68 - 121
Dibromofluoromethane	93	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-136 (6-8')**

Lab Sample ID: 680-16600-5
Client Matrix: Solid % Moisture: 24.9

Date Sampled: 05/11/2006 1050
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 2000
Date Analyzed: 05/25/2006 1255
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0061.d
Initial Weight/Volume: 5.3 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		13000	U	1800	13000
Bromomethane		13000	U	3300	13000
Vinyl chloride		120000	D	2300	13000
Chloroethane		13000	U	3800	13000
Methylene Chloride		13000	U	4000	13000
Acetone		130000	U	7500	130000
Carbon disulfide		13000	U	2500	13000
1,1-Dichloroethene		13000	U	2800	13000
1,1-Dichloroethane		13000	U	2500	13000
Chloroform		13000	U	2200	13000
1,2-Dichloroethane		13000	U	3000	13000
Methyl Ethyl Ketone		63000	U	10000	63000
1,1,1-Trichloroethane		13000	U	2100	13000
Carbon tetrachloride		13000	U	2200	13000
Dichlorobromomethane		13000	U	2500	13000
1,1,2,2-Tetrachloroethane		13000	U	2500	13000
1,2-Dichloropropane		13000	U	3300	13000
trans-1,3-Dichloropropene		13000	U	2800	13000
Trichloroethene		13000	U	3000	13000
Chlorodibromomethane		13000	U	2800	13000
1,1,2-Trichloroethane		13000	U	3000	13000
Benzene		13000	U	2200	13000
cis-1,3-Dichloropropene		13000	U	2300	13000
Bromoform		13000	U	5500	13000
2-Hexanone		63000	U	14000	63000
methyl isobutyl ketone		63000	U	15000	63000
Tetrachloroethene		13000	U	2500	13000
Toluene		6300	JD	2500	13000
Chlorobenzene		13000	U	1700	13000
Ethylbenzene		13000	U	2200	13000
Styrene		13000	U	2100	13000
Xylenes, Total		25000	U	5000	25000
1,2-Dichloroethene, cis-, trans-		86000	D	4300	25000

Surrogate	%Rec		Acceptance Limits
Toluene-d8	0	D	65 - 128
4-Bromofluorobenzene	0	D	68 - 121
Dibromofluoromethane	0	D	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: SB-137 (6-8')

Lab Sample ID: 680-16600-6
Client Matrix: Solid % Moisture: 19.6

Date Sampled: 05/11/2006 1120
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1836
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0051.d
Initial Weight/Volume: 4.8 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		260	U	36	260
Bromomethane		260	U	67	260
Vinyl chloride		~~97000~~ 100000	~~E~~ D TB	48	260
Chloroethane		260	U	78	260
Methylene Chloride		260	U	83	260
Acetone		~~710~~	~~J B~~ U	160	2600
Carbon disulfide		260	U	52	260
1,1-Dichloroethene		180	J	57	260
1,1-Dichloroethane		260	U	52	260
Chloroform		260	U	46	260
1,2-Dichloroethane		110	J	62	260
Methyl Ethyl Ketone		1300	U	210	1300
1,1,1-Trichloroethane		260	U	44	260
Carbon tetrachloride		260	U	46	260
Dichlorobromomethane		260	U	52	260
1,1,2,2-Tetrachloroethane		260	U	52	260
1,2-Dichloropropane		260	U	67	260
trans-1,3-Dichloropropene		260	U	57	260
Trichloroethene		~~13000~~ 16000	~~E~~ D	62	260
Chlorodibromomethane		260	U	57	260
1,1,2-Trichloroethane		260	U	62	260
Benzene		260	U	45	260
cis-1,3-Dichloropropene		260	U	47	260
Bromoform		260	U	110	260
2-Hexanone		1300	U	280	1300
methyl isobutyl ketone		1300	U	300	1300
Tetrachloroethene		260	U	52	260
Toluene		70	J TB	52	260
Chlorobenzene		260	U	36	260
Ethylbenzene		110	J	45	260
Styrene		260	U	44	260
Xylenes, Total		520	U	100	520
1,2-Dichloroethene, cis-, trans-		~~70000~~ 57000	~~E~~ D	88	520

Surrogate	%Rec	Acceptance Limits
Toluene-d8	91	65 - 128
4-Bromofluorobenzene	82	68 - 121
Dibromofluoromethane	89	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-137 (6-8')**

Lab Sample ID: 680-16600-6
Client Matrix: Solid % Moisture: 19.6

Date Sampled: 05/11/2006 1120
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 2000
Date Analyzed: 05/25/2006 1316
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0062.d
Initial Weight/Volume: 4.8 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		13000	U	1800	13000
Bromomethane		13000	U	3400	13000
Vinyl chloride		100000	D	2400	13000
Chloroethane		13000	U	3900	13000
Methylene Chloride		13000	U	4100	13000
Acetone		37000	JD B	7800	130000
Carbon disulfide		13000	U	2600	13000
1,1-Dichloroethene		13000	U	2800	13000
1,1-Dichloroethane		13000	U	2600	13000
Chloroform		13000	U	2300	13000
1,2-Dichloroethane		13000	U	3100	13000
Methyl Ethyl Ketone		65000	U	10000	65000
1,1,1-Trichloroethane		13000	U	2200	13000
Carbon tetrachloride		13000	U	2300	13000
Dichlorobromomethane		13000	U	2600	13000
1,1,2,2-Tetrachloroethane		13000	U	2600	13000
1,2-Dichloropropane		13000	U	3400	13000
trans-1,3-Dichloropropene		13000	U	2800	13000
Trichloroethene		16000	D	3100	13000
Chlorodibromomethane		13000	U	2800	13000
1,1,2-Trichloroethane		13000	U	3100	13000
Benzene		13000	U	2200	13000
cis-1,3-Dichloropropene		13000	U	2400	13000
Bromoform		13000	U	5700	13000
2-Hexanone		65000	U	14000	65000
methyl isobutyl ketone		65000	U	15000	65000
Tetrachloroethene		13000	U	2600	13000
Toluene		5700	JD	2600	13000
Chlorobenzene		13000	U	1800	13000
Ethylbenzene		13000	U	2300	13000
Styrene		13000	U	2200	13000
Xylenes, Total		26000	U	5200	26000
1,2-Dichloroethene, cis-, trans-		87000	D	4400	26000

Surrogate	%Rec		Acceptance Limits
Toluene-d8	0	D	65 - 128
4-Bromofluorobenzene	0	D	68 - 121
Dibromofluoromethane	0	D	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-138 (6-8')**

Lab Sample ID: 680-16600-7
Client Matrix: Solid % Moisture: 7.2

Date Sampled: 05/11/2006 1135
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 05/24/2006 1448
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45490
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0044.d
Initial Weight/Volume: 6.0 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		4.5	U	0.63	4.5
Bromomethane		4.5	U	1.2	4.5
Vinyl chloride		24	~~U~~ STB	0.83	4.5
Chloroethane		3.1	J	1.3	4.5
Methylene Chloride		4.5	U	1.4	4.5
Acetone		45	U	2.7	45
Carbon disulfide		2.6	J	0.90	4.5
1,1-Dichloroethene		4.5	U	0.99	4.5
1,1-Dichloroethane		4.5	U	0.90	4.5
Chloroform		4.5	U	0.79	4.5
1,2-Dichloroethane		22		1.1	4.5
Methyl Ethyl Ketone		22	U	3.6	22
1,1,1-Trichloroethane		4.5	U	0.76	4.5
Carbon tetrachloride		4.5	U	0.80	4.5
Dichlorobromomethane		4.5	U	0.90	4.5
1,1,2,2-Tetrachloroethane		4.5	U	0.90	4.5
1,2-Dichloropropane		4.5	U	1.2	4.5
trans-1,3-Dichloropropene		4.5	U	0.99	4.5
Trichloroethene		4.5	U	1.1	4.5
Chlorodibromomethane		4.5	U	0.99	4.5
1,1,2-Trichloroethane		4.5	U	1.1	4.5
Benzene		4.5	U	0.77	4.5
cis-1,3-Dichloropropene		4.5	U	0.82	4.5
Bromoform		4.5	U	2.0	4.5
2-Hexanone		22	U	4.8	22
methyl isobutyl ketone		22	U	5.2	22
Tetrachloroethene		14		0.90	4.5
Toluene		4.5	U	0.90	4.5
Chlorobenzene		4.5	U	0.62	4.5
Ethylbenzene		4.5	U	0.78	4.5
Styrene		4.5	U	0.76	4.5
Xylenes, Total		9.0	U	1.8	9.0
1,2-Dichloroethene, cis-, trans-		9.0	U	1.5	9.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	100	65 - 128
4-Bromofluorobenzene	89	68 - 121
Dibromofluoromethane	104	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-139 (6-8')**

Lab Sample ID: 680-16600-8
Client Matrix: Solid % Moisture: 15.1

Date Sampled: 05/11/2006 1200
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1856
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0052.d
Initial Weight/Volume: 5.7 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		210	U	29	210
Bromomethane		210	U	54	210
Vinyl chloride		~~150000~~ 480000	~~E~~ D TB	38	210
Chloroethane		210	U	62	210
Methylene Chloride		210	U	66	210
Acetone		~~490~~	~~JB~~ U	120	2100
Carbon disulfide		210	U	41	210
1,1-Dichloroethene		280		45	210
1,1-Dichloroethane		210	U	41	210
Chloroform		210	U	36	210
1,2-Dichloroethane		150	J	50	210
Methyl Ethyl Ketone		1000	U	170	1000
1,1,1-Trichloroethane		210	U	35	210
Carbon tetrachloride		210	U	37	210
Dichlorobromomethane		210	U	41	210
1,1,2,2-Tetrachloroethane		210	U	41	210
1,2-Dichloropropane		210	U	54	210
trans-1,3-Dichloropropene		210	U	45	210
Trichloroethene		260		50	210
Chlorodibromomethane		210	U	45	210
1,1,2-Trichloroethane		210	U	50	210
Benzene		210	U	36	210
cis-1,3-Dichloropropene		210	U	38	210
Bromoform		210	U	91	210
2-Hexanone		1000	U	220	1000
methyl isobutyl ketone		1000	U	240	1000
Tetrachloroethene		210	U	41	210
Toluene		320	TB	41	210
Chlorobenzene		210	U	28	210
Ethylbenzene		6100		36	210
Styrene		97	J	35	210
Xylenes, Total		130	J	83	410
1,2-Dichloroethene, cis-, trans-		~~91000~~ 150000	~~E~~ D	70	410

Surrogate	%Rec	Acceptance Limits
Toluene-d8	93	65 - 128
4-Bromofluorobenzene	83	68 - 121
Dibromofluoromethane	88	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: SB-139 (6-8')

Lab Sample ID: 680-16600-8
Client Matrix: Solid % Moisture: 15.1

Date Sampled: 05/11/2006 1200
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 5000
Date Analyzed: 05/25/2006 1417
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0063.d
Initial Weight/Volume: 5.7 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		26000	U	3600	26000
Bromomethane		26000	U	6700	26000
Vinyl chloride		480000	D	4700	26000
Chloroethane		26000	U	7700	26000
Methylene Chloride		26000	U	8300	26000
Acetone		57000	JD B	15000	260000
Carbon disulfide		26000	U	5200	26000
1,1-Dichloroethene		26000	U	5700	26000
1,1-Dichloroethane		26000	U	5200	26000
Chloroform		26000	U	4500	26000
1,2-Dichloroethane		26000	U	6200	26000
Methyl Ethyl Ketone		130000	U	21000	130000
1,1,1-Trichloroethane		26000	U	4400	26000
Carbon tetrachloride		26000	U	4600	26000
Dichlorobromomethane		26000	U	5200	26000
1,1,2,2-Tetrachloroethane		26000	U	5200	26000
1,2-Dichloropropane		26000	U	6700	26000
trans-1,3-Dichloropropene		26000	U	5700	26000
Trichloroethene		26000	U	6200	26000
Chlorodibromomethane		26000	U	5700	26000
1,1,2-Trichloroethane		26000	U	6200	26000
Benzene		26000	U	4400	26000
cis-1,3-Dichloropropene		26000	U	4700	26000
Bromoform		26000	U	11000	26000
2-Hexanone		130000	U	28000	130000
methyl isobutyl ketone		130000	U	30000	130000
Tetrachloroethene		26000	U	5200	26000
Toluene		6200	JD	5200	26000
Chlorobenzene		26000	U	3600	26000
Ethylbenzene		9800	JD	4500	26000
Styrene		26000	U	4400	26000
Xylenes, Total		52000	U	10000	52000
1,2-Dichloroethene, cis-, trans-		150000	D	8800	52000

Surrogate	%Rec		Acceptance Limits
Toluene-d8	0	D	65 - 128
4-Bromofluorobenzene	0	D	68 - 121
Dibromofluoromethane	0	D	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-140 (6-8')**

Lab Sample ID: 680-16600-9
Client Matrix: Solid % Moisture: 17.9

Date Sampled: 05/11/2006 1230
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1917
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0053.d
Initial Weight/Volume: 4.5 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		270	U	38	270
Bromomethane		270	U	70	270
Vinyl chloride		~~190000~~ 550000	~~E~~ D TB	50	270
Chloroethane		270	U	81	270
Methylene Chloride		270	U	87	270
Acetone		~~990~~	~~J B~~ U	160	2700
Carbon disulfide		270	U	54	270
1,1-Dichloroethene		280		60	270
1,1-Dichloroethane		270	U	54	270
Chloroform		170	J	48	270
1,2-Dichloroethane		~~44000~~ 52000	~~E~~ D	65	270
Methyl Ethyl Ketone		1400	U	220	1400
1,1,1-Trichloroethane		270	U	46	270
Carbon tetrachloride		270	U	48	270
Dichlorobromomethane		270	U	54	270
1,1,2,2-Tetrachloroethane		270	U	54	270
1,2-Dichloropropane		270	U	70	270
trans-1,3-Dichloropropene		270	U	60	270
Trichloroethene		280		65	270
Chlorodibromomethane		270	U	60	270
1,1,2-Trichloroethane		270	U	65	270
Benzene		270	U	47	270
cis-1,3-Dichloropropene		270	U	49	270
Bromoform		270	U	120	270
2-Hexanone		1400	U	290	1400
methyl isobutyl ketone		1400	U	310	1400
Tetrachloroethene		270	U	54	270
Toluene		77	J TB	54	270
Chlorobenzene		270	U	37	270
Ethylbenzene		220	J	47	270
Styrene		270	U	46	270
Xylenes, Total		840		110	540
1,2-Dichloroethene, cis-, trans-		~~110000~~ 160000	~~E~~ D	92	540

Surrogate	%Rec	Acceptance Limits
Toluene-d8	90	65 - 128
4-Bromofluorobenzene	79	68 - 121
Dibromofluoromethane	84	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-140 (6-8')**

Lab Sample ID: 680-16600-9
Client Matrix: Solid % Moisture: 17.9

Date Sampled: 05/11/2006 1230
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 5000
Date Analyzed: 05/25/2006 1437
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0064.d
Initial Weight/Volume: 4.5 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		34000	U	4700	34000
Bromomethane		34000	U	8800	34000
Vinyl chloride		550000	D	6200	34000
Chloroethane		34000	U	10000	34000
Methylene Chloride		34000	U	11000	34000
Acetone		340000	U	20000	340000
Carbon disulfide		34000	U	6800	34000
1,1-Dichloroethene		34000	U	7400	34000
1,1-Dichloroethane		34000	U	6800	34000
Chloroform		34000	U	6000	34000
1,2-Dichloroethane		52000	D	8100	34000
Methyl Ethyl Ketone		170000	U	27000	170000
1,1,1-Trichloroethane		34000	U	5800	34000
Carbon tetrachloride		34000	U	6000	34000
Dichlorobromomethane		34000	U	6800	34000
1,1,2,2-Tetrachloroethane		34000	U	6800	34000
1,2-Dichloropropane		34000	U	8800	34000
trans-1,3-Dichloropropene		34000	U	7400	34000
Trichloroethene		34000	U	8100	34000
Chlorodibromomethane		34000	U	7400	34000
1,1,2-Trichloroethane		34000	U	8100	34000
Benzene		34000	U	5800	34000
cis-1,3-Dichloropropene		34000	U	6200	34000
Bromoform		34000	U	15000	34000
2-Hexanone		170000	U	37000	170000
methyl isobutyl ketone		170000	U	39000	170000
Tetrachloroethene		34000	U	6800	34000
Toluene		34000	U	6800	34000
Chlorobenzene		34000	U	4700	34000
Ethylbenzene		34000	U	5900	34000
Styrene		34000	U	5800	34000
Xylenes, Total		68000	U	14000	68000
1,2-Dichloroethene, cis-, trans-		160000	D	12000	68000

Surrogate	%Rec		Acceptance Limits
Toluene-d8	0	D	65 - 128
4-Bromofluorobenzene	0	D	68 - 121
Dibromofluoromethane	0	D	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: SB-141 (6-8')

Lab Sample ID: 680-16600-10
Client Matrix: Solid % Moisture: 6.7

Date Sampled: 05/11/2006 1300
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 05/25/2006 1743
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45611
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0073.d
Initial Weight/Volume: 5.9 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		4.5	U	0.64	4.5
Bromomethane		4.5	U	1.2	4.5
Vinyl chloride		37	~~B~~ TB	0.84	4.5
Chloroethane		4.5	U	1.4	4.5
Methylene Chloride		4.5	U	1.5	4.5
Acetone		45	U	2.7	45
Carbon disulfide		4.5	U	0.91	4.5
1,1-Dichloroethene		4.5	U	1.0	4.5
1,1-Dichloroethane		4.5	U	0.91	4.5
Chloroform		4.5	U	0.80	4.5
1,2-Dichloroethane		3.2	J	1.1	4.5
Methyl Ethyl Ketone		23	U	3.6	23
1,1,1-Trichloroethane		4.5	U	0.77	4.5
Carbon tetrachloride		4.5	U	0.81	4.5
Dichlorobromomethane		4.5	U	0.91	4.5
1,1,2,2-Tetrachloroethane		4.5	U	0.91	4.5
1,2-Dichloropropane		4.5	U	1.2	4.5
trans-1,3-Dichloropropene		4.5	U	1.0	4.5
Trichloroethene		21		1.1	4.5
Chlorodibromomethane		4.5	U	1.0	4.5
1,1,2-Trichloroethane		4.5	U	1.1	4.5
Benzene		4.5	U	0.78	4.5
cis-1,3-Dichloropropene		4.5	U	0.83	4.5
Bromoform		4.5	U	2.0	4.5
2-Hexanone		23	U	4.9	23
methyl isobutyl ketone		23	U	5.3	23
Tetrachloroethene		1.4	J	0.91	4.5
Toluene		4.5	U	0.91	4.5
Chlorobenzene		4.5	U	0.63	4.5
Ethylbenzene		4.5	U	0.79	4.5
Styrene		4.5	U	0.77	4.5
Xylenes, Total		9.1	U	1.8	9.1
1,2-Dichloroethene, cis-, trans-		9.3		1.5	9.1

Surrogate	%Rec	Acceptance Limits
Toluene-d8	95	65 - 128
4-Bromofluorobenzene	82	68 - 121
Dibromofluoromethane	102	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-DUP-1**

Lab Sample ID: 680-16600-11FD
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 05/11/2006 0000
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 05/24/2006 1957
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45491
Prep Batch: 680-44482

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0055.d
Initial Weight/Volume: 5.9 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		190	U	26	190
Bromomethane		190	U	49	190
Vinyl chloride		830	~~X~~ JTB	35	~~190~~
Chloroethane		190	U	56	190
Methylene Chloride		190	U	60	190
Acetone		1900	U	110	1900
Carbon disulfide		190	U	38	190
1,1-Dichloroethene		190	U	41	190
1,1-Dichloroethane		190	U	38	190
Chloroform		190	U	33	190
1,2-Dichloroethane		190	U	45	190
Methyl Ethyl Ketone		940	U	150	940
1,1,1-Trichloroethane		190	U	32	190
Carbon tetrachloride		190	U	33	190
Dichlorobromomethane		190	U	38	190
1,1,2,2-Tetrachloroethane		190	U	38	190
1,2-Dichloropropane		190	U	49	190
trans-1,3-Dichloropropene		190	U	41	190
Trichloroethene		190	U	45	190
Chlorodibromomethane		190	U	41	190
1,1,2-Trichloroethane		190	U	45	190
Benzene		190	U	32	190
cis-1,3-Dichloropropene		190	U	34	190
Bromoform		190	U	83	190
2-Hexanone		940	U	200	940
methyl isobutyl ketone		940	U	220	940
Tetrachloroethene		190	U	38	190
Toluene		75	J TB	38	190
Chlorobenzene		190	U	26	190
Ethylbenzene		~~15000~~ 25000	~~E~~ D	33	190
Styrene		190		32	190
Xylenes, Total		380	U	75	380
1,2-Dichloroethene, cis-, trans-		79	J	64	380

Surrogate	%Rec	Acceptance Limits
Toluene-d8	108	65 - 128
4-Bromofluorobenzene	96	68 - 121
Dibromofluoromethane	98	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-DUP-1**

Lab Sample ID: 680-16600-11FD
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 05/11/2006 0000
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 05/25/2006 1457
Date Prepared: 05/13/2006 1018

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: DL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0065.d
Initial Weight/Volume: 5.9 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		940	U	130	940
Bromomethane		940	U	240	940
Vinyl chloride		1100	D	170	940
Chloroethane		940	U	280	940
Methylene Chloride		940	U	300	940
Acetone		2800	JD B	560	9400
Carbon disulfide		940	U	190	940
1,1-Dichloroethene		940	U	210	940
1,1-Dichloroethane		940	U	190	940
Chloroform		940	U	170	940
1,2-Dichloroethane		940	U	230	940
Methyl Ethyl Ketone		4700	U	750	4700
1,1,1-Trichloroethane		940	U	160	940
Carbon tetrachloride		940	U	170	940
Dichlorobromomethane		940	U	190	940
1,1,2,2-Tetrachloroethane		940	U	190	940
1,2-Dichloropropane		940	U	240	940
trans-1,3-Dichloropropene		940	U	210	940
Trichloroethene		940	U	230	940
Chlorodibromomethane		940	U	210	940
1,1,2-Trichloroethane		940	U	230	940
Benzene		940	U	160	940
cis-1,3-Dichloropropene		940	U	170	940
Bromoform		940	U	410	940
2-Hexanone		4700	U	1000	4700
methyl isobutyl ketone		4700	U	1100	4700
Tetrachloroethene		940	U	190	940
Toluene		630	JD	190	940
Chlorobenzene		940	U	130	940
Ethylbenzene		25000	D	160	940
Styrene		270	JD	160	940
Xylenes, Total		1900	U	380	1900
1,2-Dichloroethene, cis-, trans-		1900	U	320	1900

Surrogate	%Rec	Acceptance Limits
Toluene-d8	122	65 - 128
4-Bromofluorobenzene	105	68 - 121
Dibromofluoromethane	127	66 - 127

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 05/25/2006 1622

Analysis Batch: 680-45614
Prep Batch: 680-44482
Run Type: RADL

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0069.d
Initial Weight/Volume: 5.9 g
Final Weight/Volume: 5 g

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **SB-DUP-1**

Lab Sample ID: 680-16600-11FD
Client Matrix: Solid % Moisture: 9.6

Date Sampled: 05/11/2006 0000
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Date Prepared: 05/13/2006 1018

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chloromethane		940	U	130	940
Bromomethane		940	U	240	940
Vinyl chloride		830	JD	170	940
Chloroethane		940	U	280	940
Methylene Chloride		940	U	300	940
Acetone		2200	JD B	560	9400
Carbon disulfide		940	U	190	940
1,1-Dichloroethene		940	U	210	940
1,1-Dichloroethane		940	U	190	940
Chloroform		940	U	170	940
1,2-Dichloroethane		940	U	230	940
Methyl Ethyl Ketone		4700	U	750	4700
1,1,1-Trichloroethane		940	U	160	940
Carbon tetrachloride		940	U	170	940
Dichlorobromomethane		940	U	190	940
1,1,2,2-Tetrachloroethane		940	U	190	940
1,2-Dichloropropane		940	U	240	940
trans-1,3-Dichloropropene		940	U	210	940
Trichloroethene		940	U	230	940
Chlorodibromomethane		940	U	210	940
1,1,2-Trichloroethane		940	U	230	940
Benzene		940	U	160	940
cis-1,3-Dichloropropene		940	U	170	940
Bromoform		940	U	410	940
2-Hexanone		4700	U	1000	4700
methyl isobutyl ketone		4700	U	1100	4700
Tetrachloroethene		940	U	190	940
Toluene		410	JD	190	940
Chlorobenzene		940	U	130	940
Ethylbenzene		21000	D	160	940
Styrene		220	JD	160	940
Xylenes, Total		1900	U	380	1900
1,2-Dichloroethene, cis-, trans-		1900	U	320	1900

Surrogate	%Rec	Acceptance Limits
Toluene-d8	99	65 - 128
4-Bromofluorobenzene	84	68 - 121
Dibromofluoromethane	97	66 - 127

Client: Blasland, Bouck & Lee, Inc. (BBL)

Job Number: 680-16600-1
Sdg Number: SIO40

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-16600-12TB
Client Matrix: Water

Date Sampled: 05/11/2006 0000
Date Received: 05/13/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/24/2006 2040
Date Prepared: 05/24/2006 2040

Analysis Batch: 680-45595

Instrument ID: GC/MS Volatiles - S
Lab File ID: s0533.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Bromomethane	1.0	U J	0.93	1.0
Chloromethane	1.0	U	0.53	1.0
Vinyl chloride	6.7		0.92	1.0
Chloroethane	1.0	U	0.89	1.0
Methylene Chloride	5.0	U	0.44	5.0
Acetone	25	U	7.3	25
Carbon disulfide	2.0	U	0.75	2.0
1,1-Dichloroethene	1.0	U	0.93	1.0
1,1-Dichloroethane	1.0	U	0.56	1.0
1,2-Dichloroethene, cis-, trans-	2.0	U	1.2	2.0
Chloroform	1.0	U	0.52	1.0
1,2-Dichloroethane	1.0	U	0.28	1.0
2-Butanone (MEK)	10	U	0.72	10
1,1,1-Trichloroethane	1.0	U	0.79	1.0
Carbon tetrachloride	1.0	U	0.91	1.0
Bromodichloromethane	1.0	U	0.42	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.36	1.0
Trichloroethene	1.0	U	0.71	1.0
Dibromochloromethane	1.0	U	0.40	1.0
1,1,2-Trichloroethane	1.0	U	0.37	1.0
Benzene	1.0	U	0.54	1.0
cis-1,3-Dichloropropene	1.0	U	0.41	1.0
Bromoform	1.0	U	0.36	1.0
2-Hexanone	10	U	0.39	10
4-Methyl-2-pentanone (MIBK)	10	U	0.45	10
Tetrachloroethene	1.0	U	0.75	1.0
Toluene	0.96	J	0.62	1.0
Chlorobenzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.62	1.0
Styrene	1.0	U	0.42	1.0
Xylenes, Total	2.0	U	1.3	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	79 - 122
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	104	75 - 123

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-132 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-B-1-A

Sample wt/vol: 5.2 (g/mL) G Lab File ID: L0072

Level: (low/med) LOW Date Received: 05/13/06

% Moisture: not dec. 6 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	910	JNB
2.	UNKNOWN	1.12	15	J
3.	UNKNOWN	1.80	5.4	J
4.	UNKNOWN	2.80	34	J
5.	UNKNOWN	3.87	480	J
6.	UNKNOWN	5.62	6.5	J
7.	UNKNOWN	6.59	13	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-133 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-2-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0058

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	32000	JNB
2.	UNKNOWN	0.94	320	J
3.	UNKNOWN ALKENE	6.41	300	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-133 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-2-A DL

Sample wt/vol: 4.6 (g/mL) G Lab File ID: L0067

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 13 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 2(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	2100000	JNBD
2.	UNKNOWN	1.75	14000	JBD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-134 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI040

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-3-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0046

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	38000	JNB
2.	UNKNOWN ALKANE	6.41	340	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-134 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-3-A DL

Sample wt/vol: 4.5 (g/mL) G Lab File ID: L0068

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 13 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 1(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	4800000	JNBD
2.	UNKNOWN ALKANE	0.96	37000	JD
3.	UNKNOWN	1.76	37000	JBD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-135 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-4-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0049

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	34000	JNB
2.	UNKNOWN	0.80	260	JB
3.	UNKNOWN	1.79	230	JB
4.	UNKNOWN	1.92	300	JB
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-135 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-4-A DL

Sample wt/vol: 5.8 (g/mL) G Lab File ID: L0060

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 13 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 25(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	170000	JNDB
2.	UNKNOWN	0.85	1400	JD
3.	UNKNOWN	1.51	2800	JD
4.	UNKNOWN	1.75	1300	JD
5.	UNKNOWN	1.89	1400	JD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-136 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-5-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0050

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	30000	JNB
2.	UNKNOWN	6.41	210	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-136 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-5-A DL

Sample wt/vol: 5.3 (g/mL) G Lab File ID: L0061

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 25 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 25(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	190000	JNBD
2.	UNKNOWN	0.96	2000	JD
3.	UNKNOWN	1.52	2700	JD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-137 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-6-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0051

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	35000	JNB
2.	UNKNOWN	0.80	220	JB
3.	UNKNOWN	0.94	310	JB
4.	UNKNOWN ALKANE	6.41	230	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-137 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-6-A DL

Sample wt/vol: 4.8 (g/mL) G Lab File ID: L0062

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 20 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 25(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	190000	JNBD
2.	UNKNOWN	0.86	2100	JBD
3.	UNKNOWN	0.96	2900	JD
4.	UNKNOWN ALKENE	1.52	1500	JD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-138 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-B-7-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0044

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	1100	JNB
2.	UNKNOWN	1.74	6.0	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-139 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-8-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0052

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	33000	JNB
2.	UNKNOWN ALKANE	6.41	250	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-139 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-8-A DL

Sample wt/vol: 5.7 (g/mL) G Lab File ID: L0063

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 15 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 1(uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	4000000	JNBD
2.	UNKNOWN	0.71	37000	JD
3.	UNKNOWN	0.86	51000	JBD
4.	UNKNOWN	0.96	42000	JD
5.	UNKNOWN	1.05	54000	JD
6.	UNKNOWN	1.23	39000	JBD
7.	UNKNOWN	1.38	39000	JBD
8.	UNKNOWN	1.56	49000	JD
9.	UNKNOWN	1.75	52000	JBD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-140 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-9-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0053

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	29000	JNB
2.	UNKNOWN	0.94	220	JB
3.				
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-140 (6-8')DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-9-A DL

Sample wt/vol: 4.5 (g/mL) G Lab File ID: L0064

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 18 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 1(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	4700000	JND
2.	UNKNOWN	0.96	35000	JD
3.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-141 (6-8')

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI040

Matrix: (soil/water) SOLID Client Desc: 680-16600-B-10-A

Sample wt/vol: 5.9 (g/mL) G Lab File ID: L0073

Level: (low/med) LOW Date Received: 05/13/06

% Moisture: not dec. 7 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124-38-9	CARBON DIOXIDE	0.49	890	JNB
2.		UNKNOWN	1.76	4.6	J
3.		UNKNOWN	3.87	8.0	J
4.		UNKNOWN	6.59	5.0	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-DUP-1

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI040

Matrix: (soil/water) SOIL Client Desc: 680-16600-D-11-A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L0055

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 125(uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	38000	JNB
2.	UNKNOWN	0.84	420	JB
3.	UNKNOWN	0.94	500	JB
4.	UNKNOWN	1.39	220	JB
5.	UNKNOWN	1.55	240	JB
6.	UNKNOWN	1.73	210	JB
7.	UNKNOWN	1.92	220	JB
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-DUP-1DL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SIO40

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-11-A DL

Sample wt/vol: 5.9 (g/mL) G Lab File ID: L0065

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 10 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 25(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.49	150000	JNBD
2.	UNKNOWN ALKANE	0.95	1600	JD
3.	UNKNOWN ALKENE	1.51	1600	JD
4.	UNKNOWN	1.73	1100	JBD
5.	UNKNOWN	1.90	960	JD
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

SB-DUP-1RADL

Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI040

Matrix: (soil/water) SOLID Client Desc: 680-16600-D-11-RADL

Sample wt/vol: 5.9 (g/mL) G Lab File ID: L0069

Level: (low/med) MED Date Received: 05/13/06

% Moisture: not dec. 10 Date Analyzed: 05/25/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 25(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124-38-9	CARBON DIOXIDE	0.49	150000	JNBD
2.					
3.					
4.					
5.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE ID

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Lab Name: STL SAVANNAH Contract:

Lab Code: SL Case No.: SAS No.: SDG No.: SI040

Matrix: (soil/water) WATER Client Desc: 680-16600-A-12

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S0533

Level: (low/med) LOW Date Received: 05/13/06

% Moisture: not dec. _____ Date Analyzed: 05/24/06

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	0.96	8.4	JB
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FORM I VOA-TIC

Appendix D

Vinyl Chloride in Groundwater Concentration Graphs

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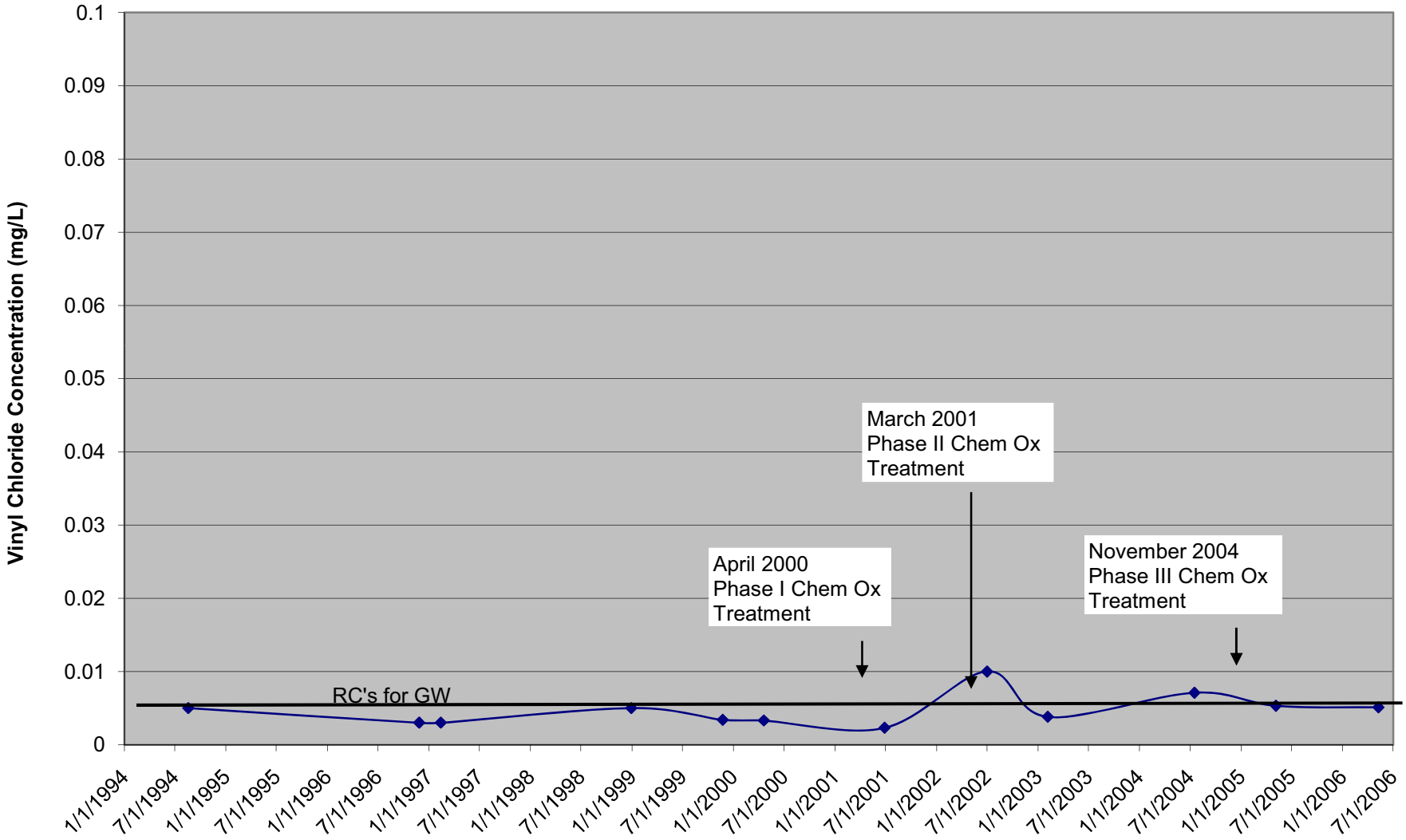
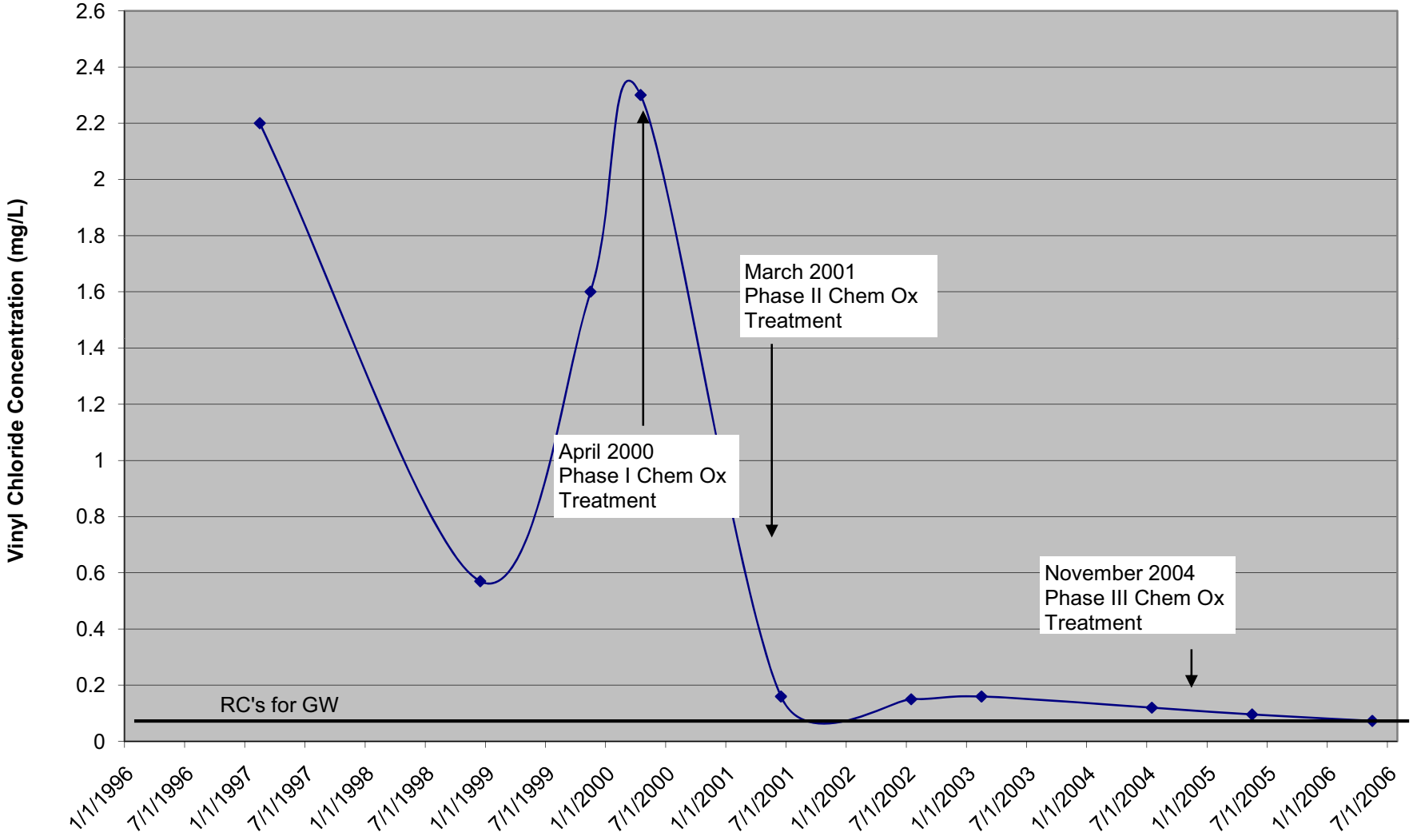
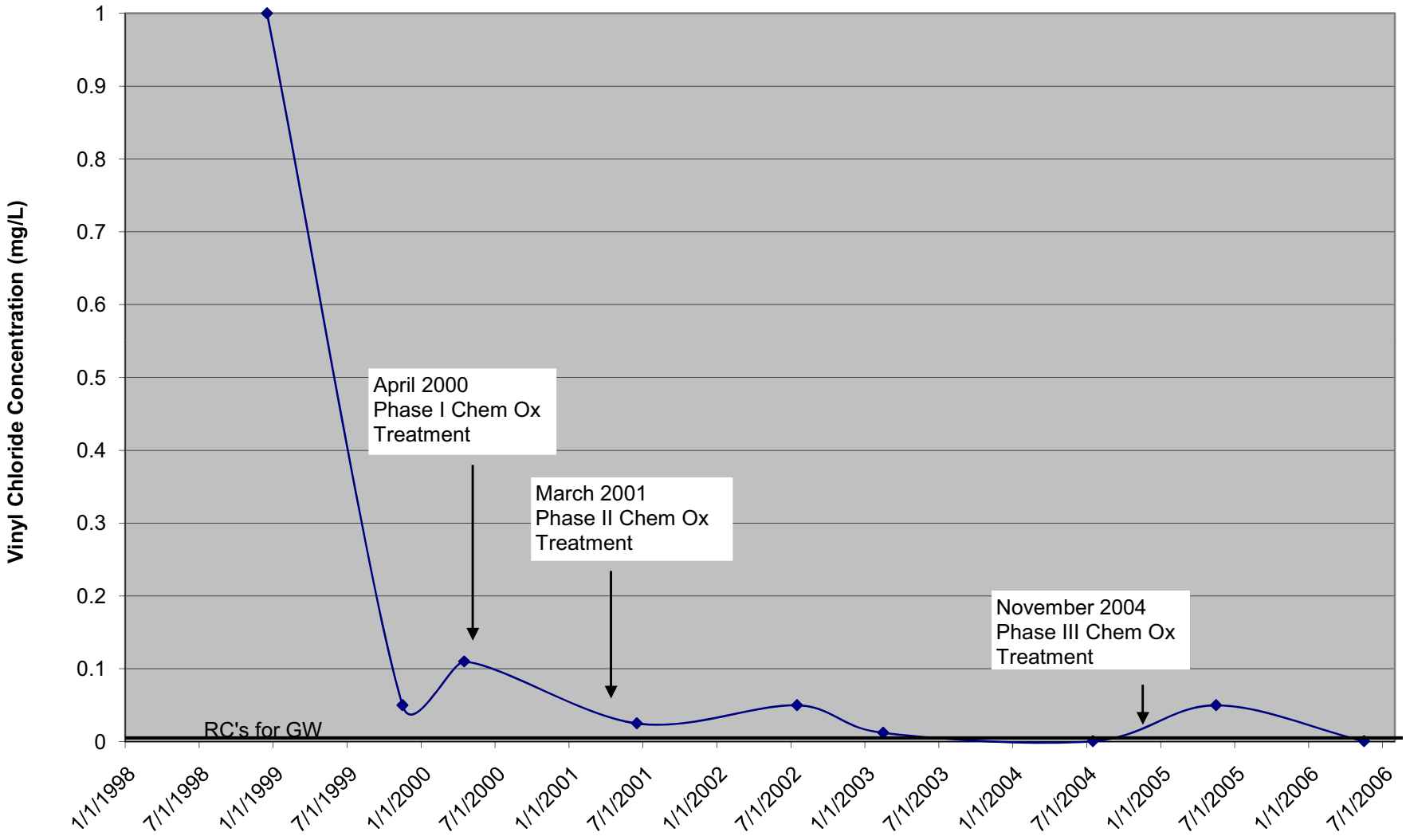
Vinyl Chloride in Groundwater at Monitoring Well MW-58S



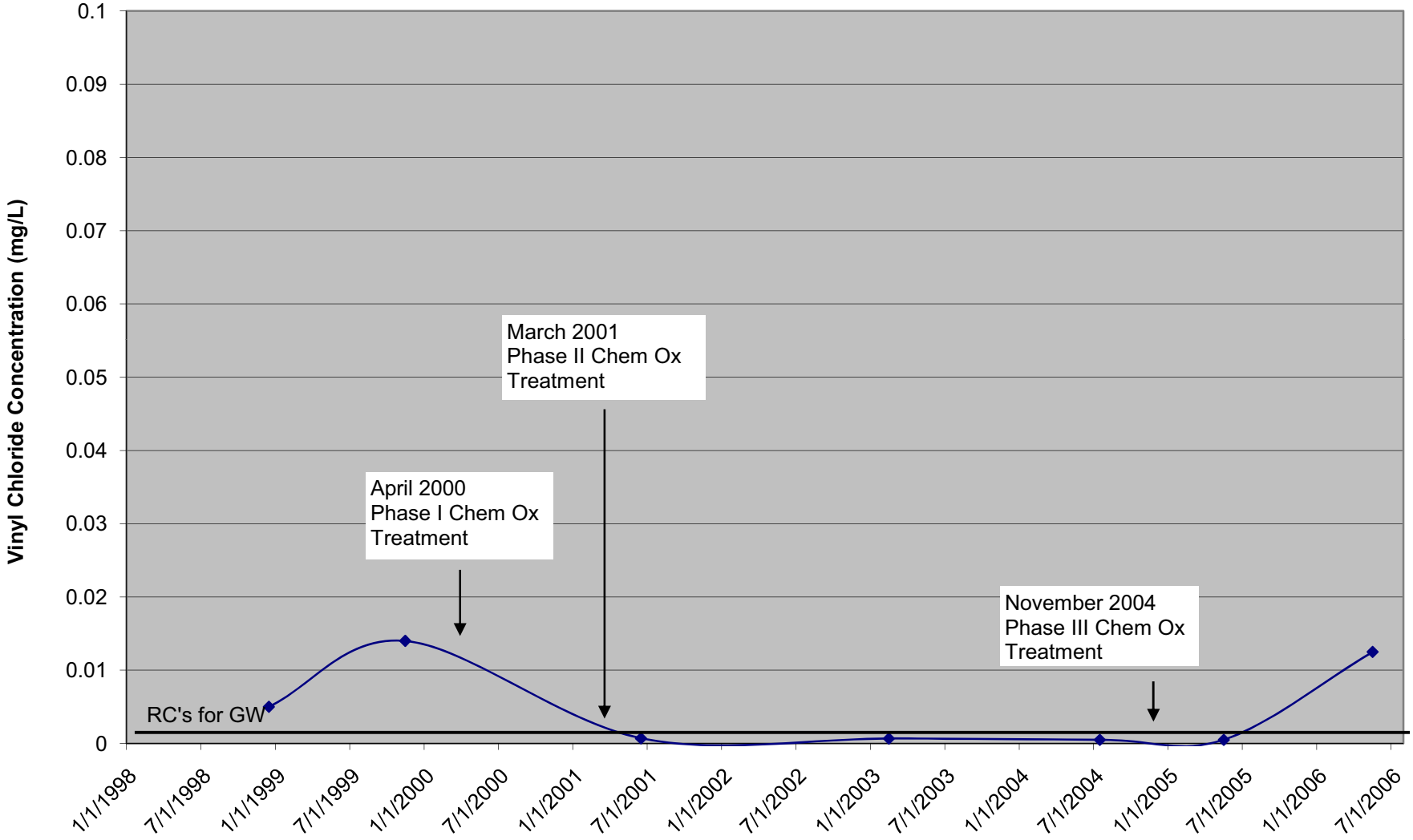
Vinyl Chloride in Groundwater at Monitoring Well MW-83S



Vinyl Chloride in Growndwater at Monitoring Well MW-87S

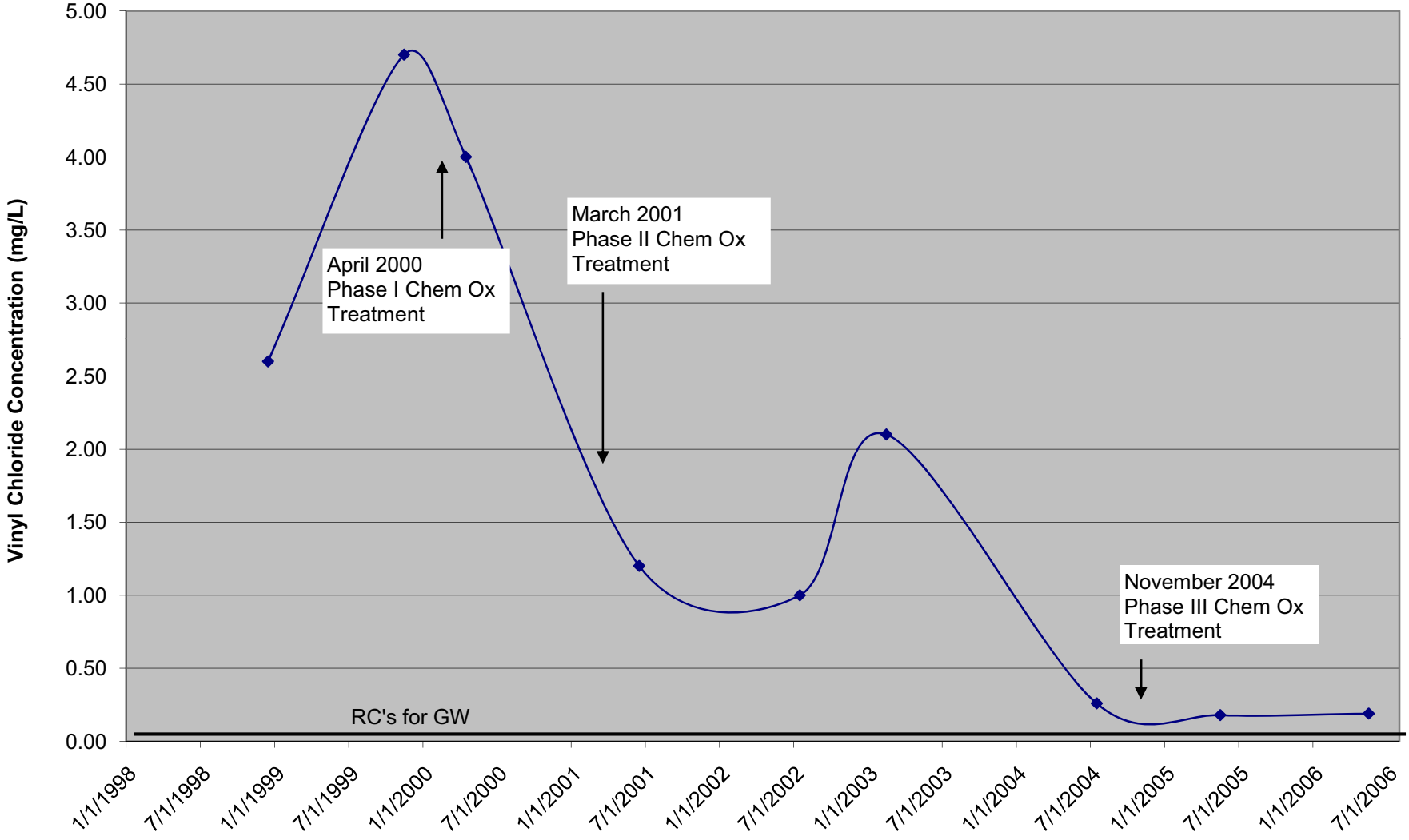


Vinyl Chloride in Groundwater at Monitoring Well MW-92S

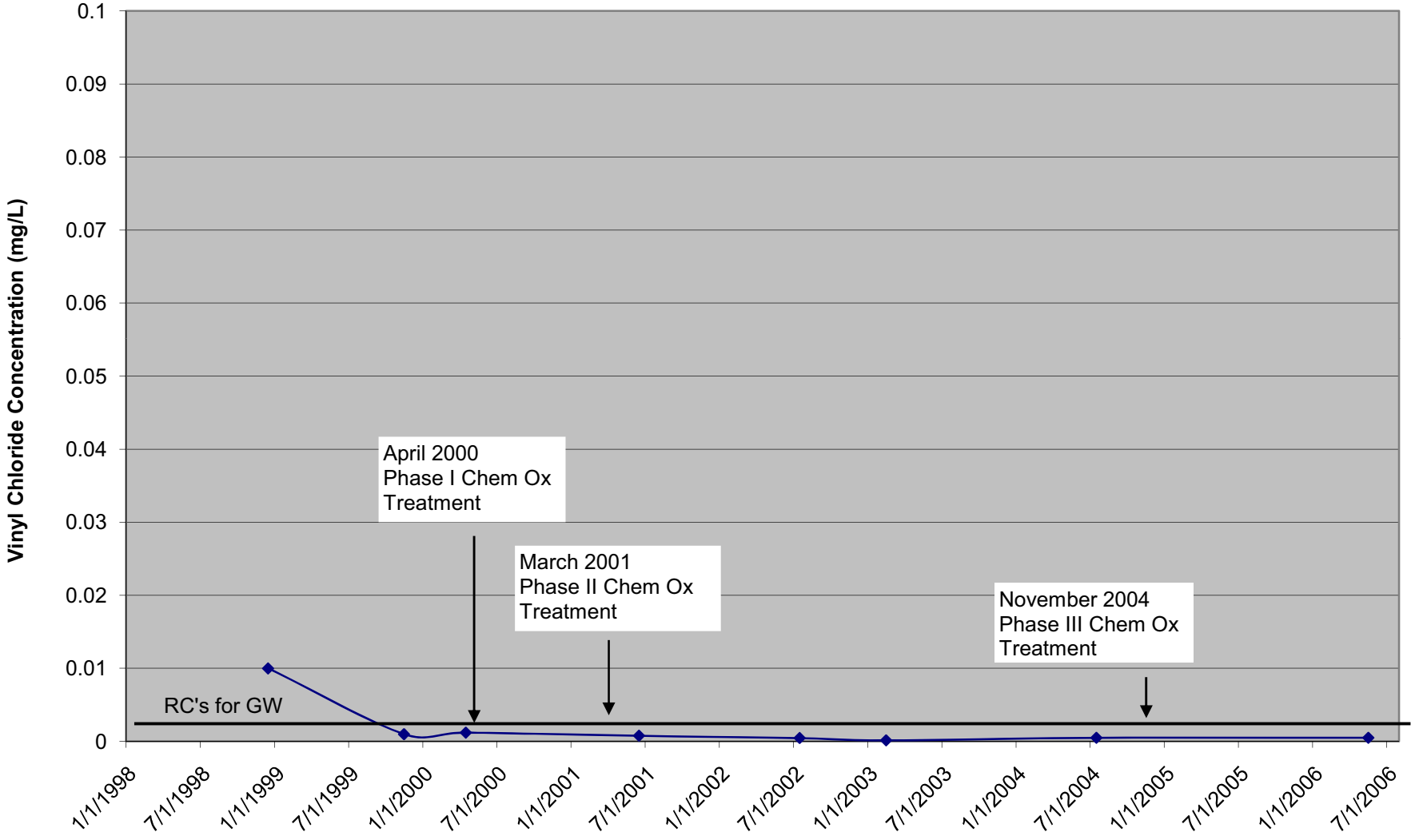


Note: The VC result for May 2006 was non-detect; the graph shows one-half of the elevated detection limit.

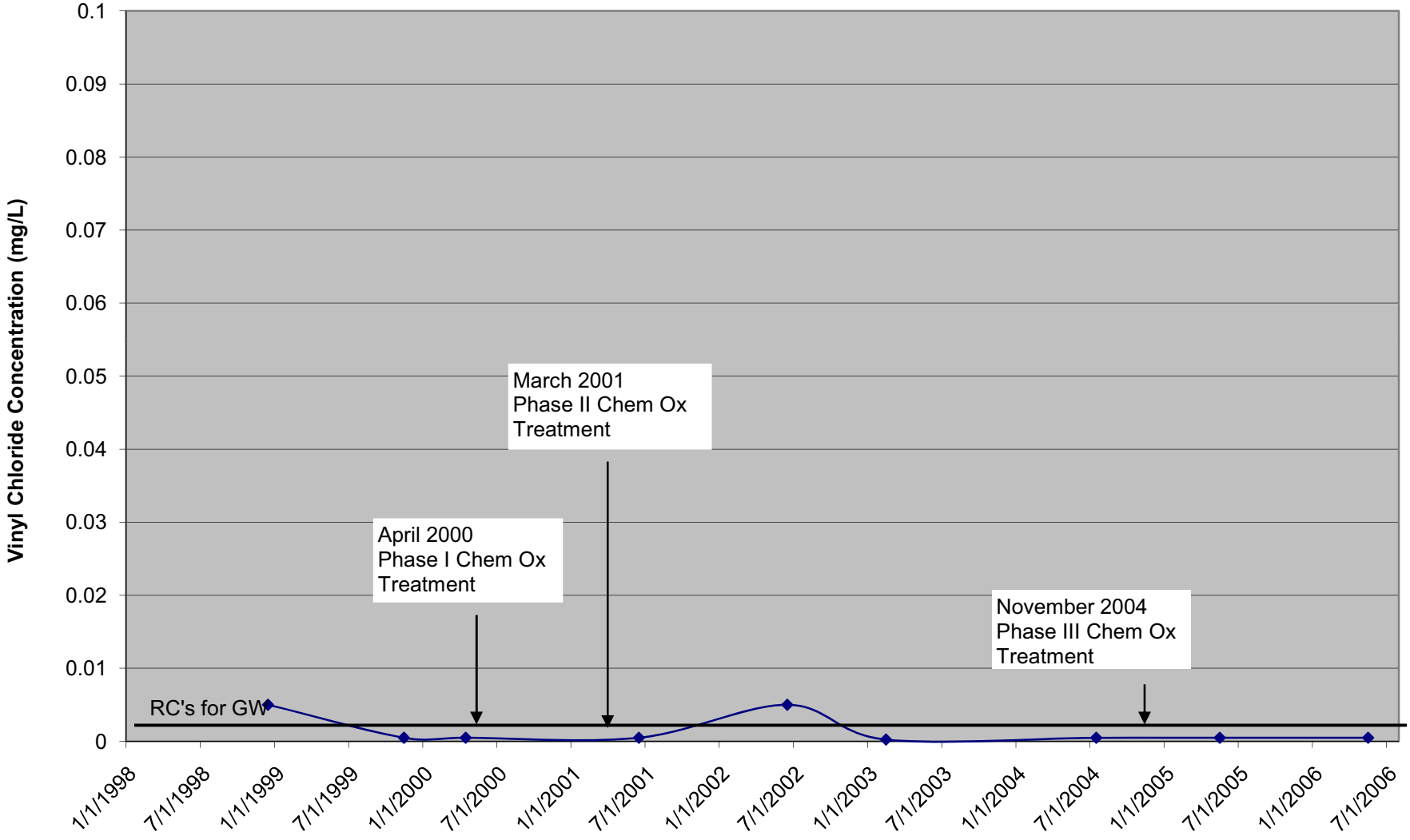
Vinyl Chloride in Groundwater at Monitoring Well MW-93A



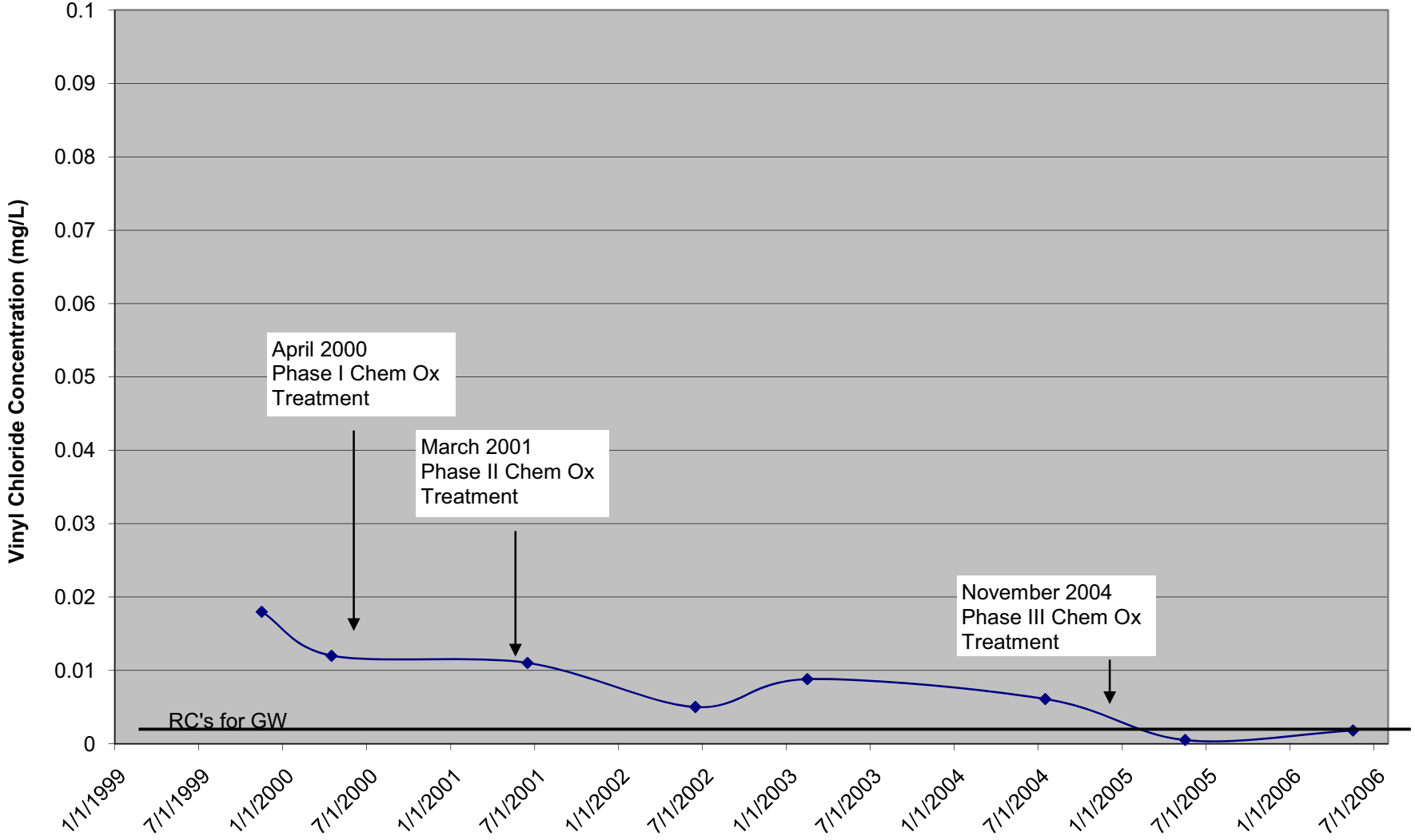
Vinyl Chloride at Monitoring Well MW-94S



Vinyl Chloride Groundwater at Monitoring Well MW-95S



Vinyl Chloride at Monitoring Well MW-96SF



Vinyl Chloride in Groundwater at Monitoring Well MW-98D

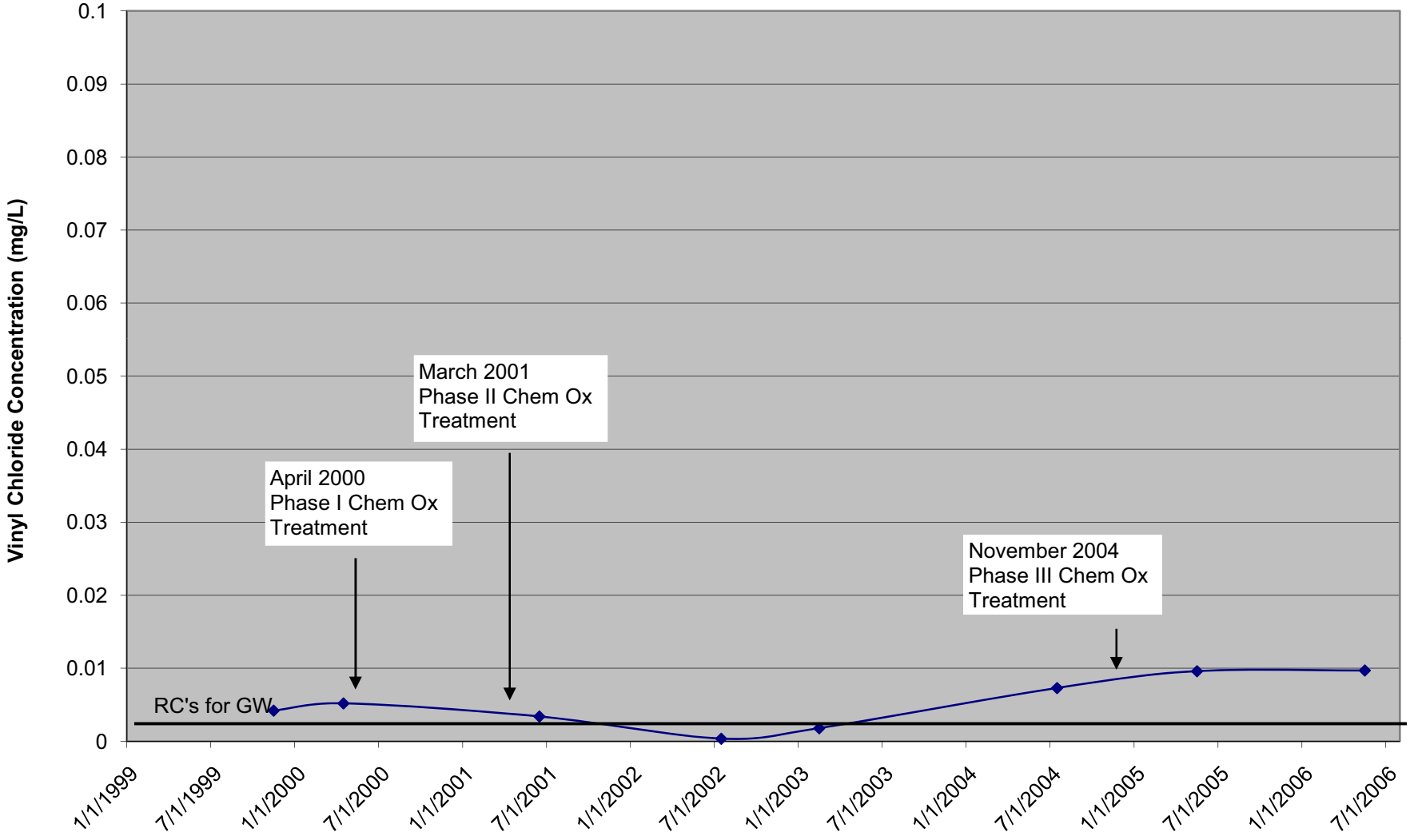
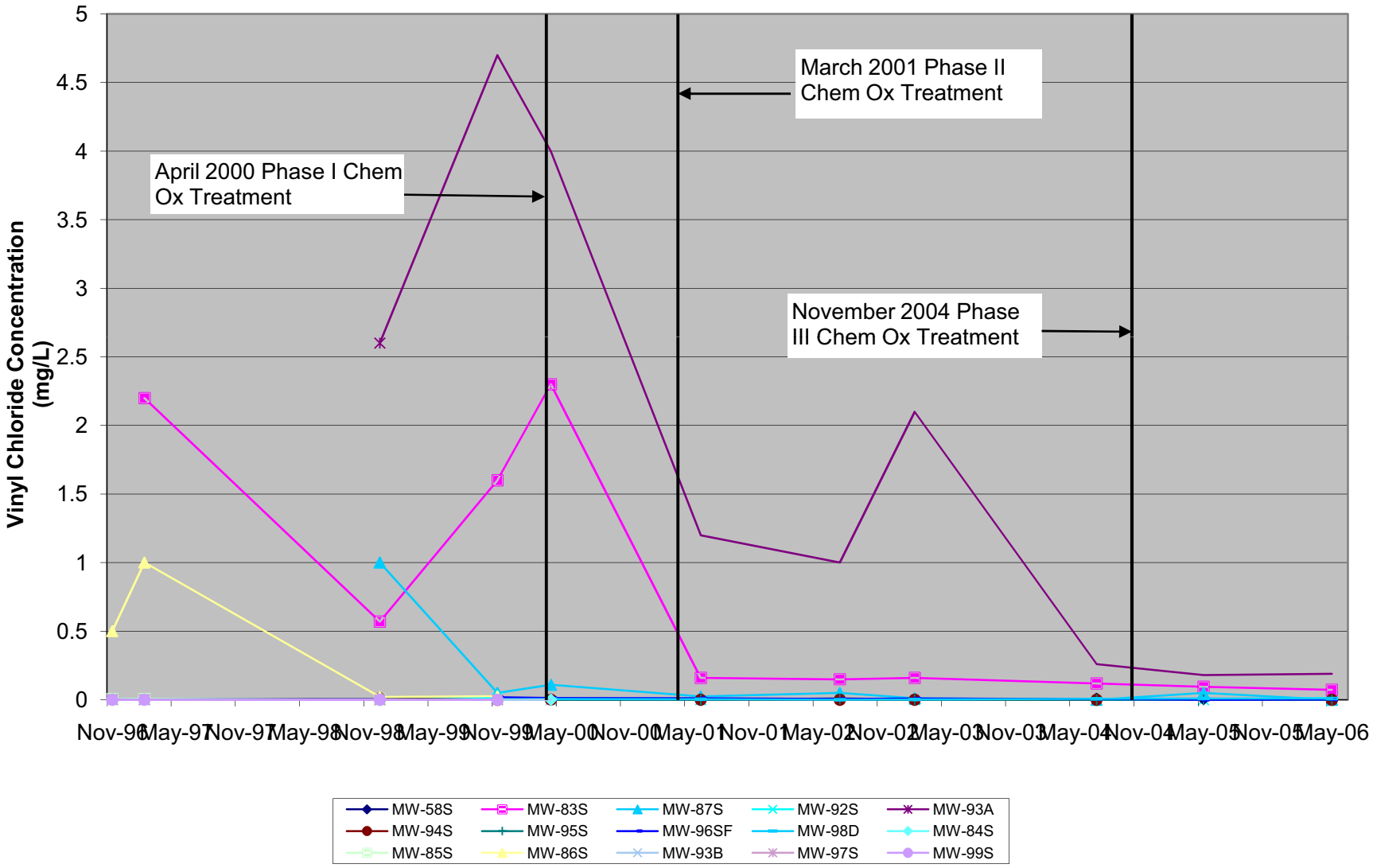


Figure 3-2
Vinyl Chloride in Groundwater



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Appendix E

Boring Logs

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an ARCADIS company

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-132 (B-1)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5							
		1	6-8	2	0.0		Orange-brown medium to coarse SAND, some fine to medium Gravel, moist. No odor.	
10	-10							
15	-15							

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engineers, scientists, economists

Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** SB-133 (B-2) **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5							
		1	6-8	2	0.0		White-tan fine SAND, moist. Orange-brown fine to coarse SAND, some fine to medium Gravel, wet.	
10	-10							
15	-15							

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Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-134 (B-3)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5							
							White-tan fine SAND, moist.	
		1	6-8	2	0.3		Orange-brown fine to coarse SAND, some fine to medium Gravel, wet.	
10	-10							
15	-15							

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Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-135 (B-4)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5						White-tan fine SAND, moist.	
		1	6-8	2	0.2		Orange-brown fine to medium SAND, some coarse Sand, little fine to medium Gravel, wet. Duplicate Taken.	
10	-10							
15	-15							

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Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-136 (B-5)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5							
		1	6-8	1.0	0.0		Brown fine to medium SAND, moist. White to tan fine SAND, moist. Brown fine to coarse SAND, little fine to medium Gravel, wet.	
10	-10							
15	-15							

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Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-137 (B-6)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples. Refusal twice at 2' bgs.	Back Filled with Bentonite
5	-5							
		1	6-8	1.5	0.0		Brown fine to medium SAND, moist. Tan-white fine SAND. Orange-brown fine to coarse SAND, little fine to medium Gravel, wet.	
10	-10							
15	-15							

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Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-138 (B-7)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5							
		1	6-8	2.0	0.0		Orange-brown fine to coarse SAND, little fine to medium Gravel, wet.	
10	-10							
15	-15							

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Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-139 (B-8)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5						Tan-white fine SAND, moist.	
		1	6-8	2.0	0.6		Brown fine to coarse SAND, some fine to medium Gravel, wet. Slight odor.	
10	-10							
15	-15							

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engineers, scientists, economists

Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-140 (B-9)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5							
		1	6-8	1.8	0.4		White fine SAND, moist. Brown fine to medium SAND, little fine to medium Gravel, trace coarse Sand, wet.	
10	-10							
15	-15							

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engineers, scientists, economists

Remarks: bgs - below ground surface
NA - Not Applicable

Date Start/Finish: 5/11/2006 **Drilling Company:** BBLES **Driller's Name:** Jay Boland **Drilling Method:** Power Probe 9600 TC **Sampling Method:** 4' Macrocore	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 8.0' bgs **Surface Elevation:** NA **Descriptions By:** Jay Boland	**Well/Boring ID:** **SB-141 (B-10)** **Client:** Solutia Inc. **Location:** FGH Area - Indian Orchard Plant Springfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0						Probed down to 6' bgs, without samples.	Back Filled with Bentonite
5	-5	1	6-8	2.0	0.0		Brown medium to coarse SAND, little fine to medium Gravel, wet.	
10	-10							
15	-15							

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engineers, scientists, economists

Remarks: bgs - below ground surface
NA - Not Applicable

Appendix F

Records of Public Notification of ROS Report

BBL®
ENVIRONMENTAL SERVICES, INC.
an ARCADIS company

Certified Mail – 7003 0500 0000 6874 2844
Return Receipt Requested

SOLUTIA

Solutions for a better life.

Solutia Inc.
730 Worcester Street
Springfield, Massachusetts 01151
Tel 413-788-6911

August 14, 2006

The Honorable Charles Ryan
Mayor of Springfield
36 Court Street
Springfield, MA 01103

Re: Notice of Phase V Inspection and Monitoring Report
Project #: 10264 #2.01

Dear Mr. Ryan:

This letter serves to notify you that the *Final Semi-Annual Remedy Operation Status/Phase V Operation, Maintenance, and Monitoring Report and Completion Statement for the Former Vinyl Chloride Gas Holder Area, RTN 1-11901*, has been prepared for the Solutia Inc. Indian Orchard Plant in Springfield, Massachusetts. This report is available at the Massachusetts Department of Environmental Protection (MADEP) office, and can also be obtained from my office at Solutia Inc.

If you have any questions, please contact me at (413) 730-2682.

Sincerely,

Roy P. Hart

Roy P. Hart
Supervisor of Environmental Protection

CSK/plf

cc: Ms. Caron S. Koll, L.S.P., Blasland, Bouck & Lee, Inc.

Certified Mail – 7003 0500 0000 6874 2837
Return Receipt Requested

SOLUTIA.
Solutions for a better life.

Solutia Inc.
730 Worcester Street
Springfield, Massachusetts 01151
Tel 413-788-6911

August 14, 2006

City of Springfield Health Department
95 State Street, Room 201
Springfield, MA 01103

Re: Notice of Phase V Inspection and Monitoring Report
Project #: 10264 #2.01

Dear Sir/Madam:

This letter serves to notify you that the *Final Semi-Annual Remedy Operation Status/Phase V Operation, Maintenance, and Monitoring Report and Completion Statement for Former Vinyl Chloride Gas Holder Area, RTN 1-11901*, has been prepared for the Solutia Inc. Indian Orchard Plant in Springfield, Massachusetts. This report is available at the Massachusetts Department of Environmental Protection (MADEP) office, and can also be obtained from my office at Solutia Inc.

If you have any questions, please contact me at (413) 730-2682.

Sincerely,

Roy P. Hart
Supervisor of Environmental Protection

CSK/plf

cc: Caron S. Koll, L.S.P., Blasland, Bouck & Lee, Inc.