

REPORT

Remedial Action Report

Universal Instruments Corporation

Kirkwood, Broome County, New York

March 2004

BBL[®]
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Table of Contents

Section 1. Introduction	1-1
1.1 Purpose	1-1
1.2 Location, Background, and Description of Work.....	1-1
Section 2. Remedial Action Activities.....	2-1
2.1 Mobilization	2-1
2.2 Dust Control	2-1
2.3 Soil Excavation.....	2-2
2.3.1 Soil Removal Methods	2-3
2.3.2 Stockpiling	2-3
2.3.3 Waste Classification Sampling.....	2-3
2.3.4 Post-Excavation Sampling.....	2-4
2.4 Disposition of Generated Material.....	2-5
2.5 Earthwork and Site Restoration	2-5
2.6 Storm Water Outfall Extension.....	2-6
2.7 Roof Drain Leader Abandonment and Replacement.....	2-7
2.8 Active Slab Depressurization System.....	2-7
2.8.1 ASD System Construction	2-8
2.8.2 ASD System Performance Monitoring	2-9
2.9 Deed Notice Areas	2-9
Section 3. Indoor Air Monitoring Program	3-1
Section 4. References	4-1

Tables

1	Excavation Dimensions: Areas and Volumes (in text)
2	Waste Classification Analytical Results
3	Post-Excavation Soil Sample Analytical Results (Volatile Organic Compounds)
4	Backfill Volumes (in text)
5	ASD Test and Operation Data
6	Indoor Air Analytical Results – August 2003
7	Indoor Air Analytical Results – September 2003
8	Indoor Air Analytical Results – January 2004
8	Historical Indoor Air Sampling Results

Figures

1	Site Location Map
2	Site Plan
3	Soil Remedial Action Locations
4	Excavation Area “A”
5	Excavation Area “A-1”

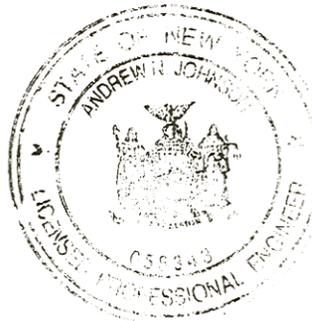
-
- 6 Excavation Area "B"
 - 7 Excavation Area "C"
 - 8 Excavation Area "D"
 - 9 Excavation Area "E"
 - 10 Excavation Area "F"
 - 11 Storm Water Outfall Pipe Extension Locations
 - 12 Outfall Pipe Extension Details (As-Built)
 - 13 Roof Drain Leader Abandonment and Replacement Details (As-Built)
 - 14 ASD Extraction Point Locations (As-Built)
 - 15 ASD System Details (As-Built)
 - 16 Indoor Air Sampling Locations
 - 17 Deed Notice Locations

Appendices

- A Remedial Action Photographic Documentation
- B Waste Classification Analytical Reports
- C Post-Excavation Soil Sample Analytical Reports
- D Bills of Lading – Non Hazardous Disposal
- E Waste Manifests – Hazardous Waste Disposal
- F Deed Notice
- G Indoor Air Sampling Analytical Reports

Certification Statement

I hereby certify that the completed Remedial Action at the Dover Electronics site (NYSDEC Site Number 7-04-026), unless noted, was performed in conformance with the approved Remedial Design. Deviations from the approved Remedial Design consisted of modifications to the Active Slab Depressurization (ASD), which were based on data from field tests performed during construction and approved by NYSDEC; and additional inaccessible soils encountered during soil removal activities.



A handwritten signature in black ink, appearing to read "Andrew N. Johnson", written over a horizontal line.

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1. Introduction

This Remedial Action Report has been prepared by Blasland, Bouck & Lee, Inc. (BBL) on behalf of Universal Instruments Corporation (Universal) for the former Dover Electronics (Dover) Site in Kirkwood, Broome County, New York (Site Number 7-04-026). This document provides a summary description of soil remedial action that was conducted at the site between June 16 and July 11, 2003 and the post-remediation indoor air monitoring data collected to date. The remedial action was performed as specified in the *Remedial Design (RD) Package* that was submitted to the New York State Department of Environmental Conservation (NYSDEC) on June 3, 2003 in accordance with the executed Order on Consent between Universal and the NYSDEC, dated January 19, 2001.

1.1 Purpose

This document summarizes the site remediation activities and provides detailed descriptions of the remedial action performed at the site in June and July 2003. As described in the *RD Package*, the remedial action consisted of the removal of accessible tetrachloroethene (PCE) affected soils from “hotspots, extension of the Northwest Catch Basin stormwater outfall, installation and operation of an active slab depressurization (ASD) system, and abandonment and replacement of the roof drain leaders from the original Kirkwood North facility building.

The report is organized into the following sections:

- Section 1 – Introduction;
- Section 2 – Remedial Action Activities; and
- Section 3 – Post-Remediation Indoor Air Monitoring.

Section 2 provides a description of the remedial actions performed in accordance with the technical specifications for the excavation of the accessible soils from seven separate excavation areas, extension of the stormwater outfall, installation of the ASD system, and the abandonment and replacement of roof drain leaders.

Section 3 provides a summary of ASD system operational data and the results of three post-remediation indoor air sampling events.

1.2 Location, Background, and Description of Work

The former Dover facility is located at 29 Industrial Park Drive, Kirkwood, Broome County, New York. The facility is located on a site approximately 9.58 acres in size. A site location map is shown on Figure 1 and Figure 2 is the site plan.

The property is situated in an industrial setting. Major plants in the area include Truckstops of America Landfill (0.5 mile southeast), Frito Lay Plant (0.5 mile south), Universal Instruments (147 Industrial Park Drive, 0.5 mile east), Kason Industries (eastern property boundary), Consolidated Freightways (northern property boundary), and the newly developed Pilot Truck Stop to the south. Industrial properties surround the property to the north, east, and west. The site presently serves as one of Universal’s service facilities with the site’s uses including product training, research and development, and Odd Form Assembly (OFA), which involves the engineering and assembly of non-standard/specialty circuit boards.

The facility was first constructed in 1973, with subsequent additions built in 1978, 1982, and 1984. It has been occupied by Universal and Dover. In 1993, Dover was renamed Dovatron, Inc. (Dovatron). In 1995, Dovatron transferred its title to the facility to Universal Instruments. In 1996, Dovatron changed its name to the DII Group. Later the DII Group sold to Flextronics International, Inc. and Universal became a wholly-owned subsidiary to Dover Corporation. The site currently serves as a service facility for Universal. The facility has reportedly been used for electronic circuit board manufacturing since 1973.

Previous circuit board manufacturing processes used PCE as a cleaning solvent. Originally, the virgin PCE was stored in 55-gallon drums at an outside drum storage area. During the initial facility expansion, a ramp to the east-side overhead door served as the entry point for PCE drums. As production increased and the facility was again expanded, virgin PCE was stored in a 3,000-gallon aboveground storage tank that has since been removed. An aboveground 5,000-gallon waste PCE flux storage tank was also located on the site. In March 1992, a 10,000-gallon fuel oil tank was reportedly removed from the site, and in March 1993, the aboveground PCE system was dismantled. Two 480-gallon PCE tanks were reportedly dismantled and removed from the building interior at that time. Historical handling and use of PCE has resulted in its documented presence in the soil, stormwater, and groundwater at this site.

2. Remedial Action Activities

The field activities conducted at the site during June and July 2003 implemented the NYSDEC- approved scope of work presented in the *June 2003 RD Package*. The work performed entailed remedial action for PCE-affected soils in the unsaturated zone beneath and adjacent to the facility building at the site. The remedial action work included:

- abandonment and replacement of the roof leader from the roof drain system that handles stormwater runoff from the front part of the roof for the original building section of the facility;
- removal of specified soil from seven separate excavations (see Table 1);
- offsite transportation and disposal of non-hazardous and possible hazardous soil excavated;
- extension of the stormwater outfall from the southwest catch basin (CB-1547);
- restoration of excavated areas using compacted certified clean fill;
- installation of an ASD system; and
- implementation of a deed notice for soils beneath the 1978, 1982, and 1984 building additions at Universal's Kirkwood North facility.

2.1 Mobilization

During the site preparation, temporary decontamination areas were constructed for use throughout the duration of the excavation and restoration phases of the project. These areas were used to contain contaminated material to the designated work area. The decontamination areas were located to the front and rear of the facility as shown on Figure 3.

Underground and overhead utility lines were identified in the excavation areas and were avoided to the extent practical. Underground utilities and structures ran through three excavation areas (Excavations A, B, and D). The utilities and structures were not removed or replaced, except for the roof drain line in Excavation B, which was cut and capped.

Site security was maintained throughout the duration of the project. Personnel and equipment entering and leaving the work zone was controlled. Measures to prevent access to the excavation/work areas until the completion of the work were implemented.

2.2 Dust Control

The project site was maintained so as to minimize the creation and dispersion of fugitive dust. The program for suppressing fugitive dust and monitoring particulate matter followed the NYSDEC's *Technical And Administrative Guidance Memorandum #4031: Fugitive Dust Suppression and Particulate Monitoring Program At Inactive Hazardous Waste Sites*. (TAGM #4031).

Dust emissions were visually monitored throughout the period of work. Particulate monitoring for fugitive dust was performed using real-time particulate monitors that had automatic alarms and could detect particulate matter

less than 10 microns in diameter. Fugitive dust was not an issue during the excavation work and soil loading; therefore, controls were not needed.

2.3 Soil Excavation

An approximate total of 487 cubic yards was excavated from seven areas of the facility (see Figure 3). Excavation A was a 6-foot-wide by 50-foot-long area located below the discharge point of the southwest catch basin (CB-1547) outfall and the juncture with the drainage swale along the east side of Colesville Road. This excavation area was a uniform 4 feet in depth. Excavation A-1 was an approximate 8-foot by 6-foot area, 4 feet in depth. Excavation A-1 was located at the former Trench 1 area outside the front employee entrance to the facility. Excavation B was a 12- to 15-foot-wide by 33-foot-long area located along the southeast side of the 1984 building addition at the rear of the facility. Excavations C and D were located to the northwest and east of Excavation B, respectively, near former test trench areas 8 and 18. Excavation C had dimensions of 10 feet wide by 31 feet long by 5 to 8 feet deep. Excavation D had an approximate area 11 feet wide by 17 feet long and 8 feet deep. Excavation E was located at the former drum storage shed area and had approximate dimensions of 12 to 18 feet wide by 47 feet long by 4 to 5 feet deep. Excavation F was located adjacent to catch basin CB-2044 and covered an area of approximately 158 square feet and was 4 feet deep.

Table 1 (below) shows the depths, areas, and volumes of the excavation areas. The locations and outlines of the excavations are shown on Figure 3 and individually on Figures 4 through 10. Photographic documentation of the soil excavation work is presented in Appendix A.

Table 1. Proposed Depths, Areas, and Volumes at Excavation Areas

<i>Excavation ID</i>	<i>Location ID</i>	<i>Excavation Depth</i>	<i>Approximate Areal Extent</i>	<i>Approximate Excavation Perimeter</i>	<i>Approximate Volume</i>
A	CB-1547 Outfall Area	4 ft	300 ft ²	112 ft	46 yd ³
A-1	Trench 1	4 ft	40 ft ²	29 ft	6 yd ³
B	Trench 11	9-12 ft	400 ft ²	130 ft	146 yd ³
C	Trench 18	5-8 ft	310 ft ²	94 ft	66 yd ³
D	Trench 8	8 ft	190 ft ²	108 ft	55 yd ³
E	Drum Storage	4-5 ft	590 ft ²	168 ft	125 yd ³
F	CB-2044	4 ft	158 ft ²	67 ft	41 yd ³
Total Excavation Volume					485 yd³

In excavation areas where COCs had not been discharged to the ground surface, but rather had been discharged along subsurface utility paths, it was known that COC-affected soil would not be encountered until the depth of the utility was reached. In these areas (Excavations B, D, and F), surface and near surface soils, although checked by field screening, were assumed to be acceptable for re-use onsite.

The initial field marked area for Excavation E was mis-located several feet too far to the south; resulting in the removal of clean soil.

Excavated soils were field screened with a photoionization detector (PID) equipped with a 10.6 eV lamp. The upper parts of Excavation B (top 4 to 5 feet of soil) and Excavation D (top 6 feet of soil) were field screened and judged to be clean and suitable for re-use as backfill. Soils excavated from parts of Excavations E and F were also field screened and judged to be suitable for re-use as backfill. This soil was stockpiled separately from soils excavated from below this depth. Soils assumed to be affected by COCs based on field screening results were segregated and stockpiled separately from other excavated soil in non-hazardous and hazardous designated locations (Figure 3).

Most of the soil removal work performed in each of the planned excavation areas was similar to the work proposed in the *RD Package*, with the exception of Excavations E and F. Excavation E (former drum storage shed area) turned out to be much larger than anticipated. The work at Excavation F encountered difficulties at a depth of 3 to 4 feet around catch basin CB-2044 (North Catch Basin) where thick concrete prevented one of the two target zones of the planned excavation from being reached. This inaccessible area has been added to the proposed deed notice areas (see Section 2.10 and Figure 17).

2.3.1 Soil Removal Methods

All soil was removed by either excavator machinery or hand dug. Hand digging was required near footings and to avoid damaging underground utilities where they were found at shallow depths. All excavated material was initially handled as potentially contaminated material. All excavated material was staged onto plastic sheeting and covered by plastic (see Section 2.3.2).

Two phases of excavation were required in most areas (Excavations A, A-1, B, C, D, and E) to address residual PCE-affected soils indicated by the first round of post-excitation sampling. All excavations were backfilled after post-excitation samples were collected. When possible, excavations were not left open overnight.

To preserve the integrity of County Route 181 and avoid damage to the 12-inch water main running beneath the road along the west side, the east wall of Excavation C was kept at least 3 feet from the edge of the road pavement.

2.3.2 Stockpiling

Separate stockpiles of excavated soils were maintained for the clean overburden soils and the deeper COC-affected soils. COC-affected soils were stockpiled as either non-hazardous or potentially hazardous. The stockpile areas were diked and lined with two layers of 10-mil polyethylene sheeting. Stockpiled soils were covered with two layers of 6-mil thick plastic to mitigate volatile organic compound (VOC) vapor emissions and wind or rainfall erosion. Figure 3 shows the soil stockpile locations.

2.3.3 Waste Classification Sampling

The stockpiles were characterized for waste classification to satisfy the NYSDEC's requirements for determining hazardous waste. The waste classification samples were analyzed for the NYSDEC Analytical Services Protocol (ASP) VOCs and Resource Conservation and Recovery Act (RCRA) metals using the toxicity characteristics leaching procedure (TCLP) analysis method. The sampling results were also used to satisfy the selected TSD facility requirements. Waste classification sample results are presented in Table 2. The laboratory analytical reports are found in Appendix B.

Soil stockpile samples were collected from both presumed non-hazardous and hazardous stockpiles per TSD facility requirements. Four grab samples were collected from the presumed non-hazardous stockpiles and four grab samples were collected from the presumed hazardous stockpiles.

The soil samples collected from the presumed hazardous stockpiles failed the toxic characteristic analysis (TCLP for VOCs) so these soils were classified as hazardous. The other stockpile soil samples passed toxic characteristic analyses, but some first round post-excavation samples exceeded the NYSDEC soil cleanup objectives and levels (TAGM # 4046, *Determination of Soil Cleanup Objectives and Cleanup Levels*, Tables 1 and 2) for PCE so these soils were classified as non-hazardous.

2.3.4 Post-Excavation Sampling

Field personnel assessed the excavation limits through field screening. Post-excavation soil samples were collected using the frequency and location guidance found in the NYSDEC's *Draft DER-10, Technical Guidance for Site Investigation and Remediation* (Section 5.4 Remedial Action Performance Compliance, (a)2, dated December 2002) as a minimum¹. All post-excavation soil samples were collected as grab samples. Sidewall samples were collected from the excavation sidewalls at a depth interval coincident with 0 to 6 inches above the excavation base at the time of collection. Bottom post-excavation samples were collected along the central long-axis of each excavation. The post-excavation sample locations were biased based on field judgement, towards sidewall and bottom areas that are suspected to most likely contain residual contamination.

Verification post-excavation samples were collected as undisturbed grab samples and were analyzed offsite by a New York State-certified laboratory (Columbia Analytical Services, Rochester, New York) for VOC SSPL analysis using United States Environmental Protection Agency (USEPA) Method 8260 to assess compliance with New York State groundwater protection requirements (NYSDEC, *TAGM #4046*, 1994).

Because some of the analytical results from the first set of post-excavation samples exceeded the NYSDEC criterion for PCE, additional excavation work was performed and a second round of verification samples were collected and analyzed for SSPL VOCs. During the first round of post-excavation sampling, results for 23 of 52 samples exceeded the NYSDEC soil criterion for PCE of 1,400 micrograms per kilogram ($\mu\text{g}/\text{kg}$). During the second round of post-excavation sampling, results for 5 of 26 samples exceeded the criterion for PCE.

The PCE exceedances in soil were detected in Excavation A-1, Excavation C, Excavation D, and Excavation E, and the unsatisfactory verification results in the final post-excavation samples are summarized below.

- The PCE soil concentration in the unsatisfactory verification sample collected in Excavation A-1 (PXA1-5) was 18,000 $\mu\text{g}/\text{kg}$. This sample was collected against the base of the stairway leading to the employee entrance.
- The PCE soil concentration in the high verification samples collected in Excavation C were 4,700 $\mu\text{g}/\text{kg}$ (PXC-7) and 1,600 $\mu\text{g}/\text{kg}$ (PXC-11). Sample PXC-7 was collected at the upper end of Excavation "C" where the entrance to the southeast parking area and loading dock is located. This post-excavation sample was collected from between the highway drainage swale culvert pipe that runs beneath the driveway and the stormwater outfall pipe from Catch Basin CB-1845 (an 18- inch distance between the

¹ Section 5.4 (a)2 states that for subsurface releases and excavations 20 to 300 feet in perimeter; the post-excavation sampling frequency shall be one sidewall sample from each wall for every 30 linear feet of sidewall and one bottom sample for every 900 square feet of excavation. This section further states that sidewall samples shall be collected from the base of the sidewall.

two pipes). Sample PXC-11 was collected from the base of the excavation at the downslope end of the excavation.

- The PCE soil concentration in the high verification samples collected in Excavation D were 3,500 µg/kg (PXC-6) and 86,000 µg/kg (PXD-14). Sample PXD-6 was collected from the west end of Excavation D where the excavation terminated against the cedar tree hedge and the transformer pad. Sample PX-14 was collected in the most downslope corner of Excavation D where a minor amount of free-phase PCE was observed before removal.
- The PCE soil concentrations in the two high verification sample collected in Excavation E (PXE-11 and PXE-12) were 14,000 µg/kg and 2,000 µg/kg, respectively. These samples were collected from the downslope end of the excavation.

Additional areas were added to the proposed deed notice to address the PCE soil exceedances associated with Excavation E (see Figure 17). The PCE soil exceedance detected at Excavation A-1 was already addressed by existing proposed deed notice areas. The PCE soil exceedance detected at Excavation C is minor and does not warrant further action. Although the PCE soil exceedance detected in sample PXD-14 is elevated, the location next to the county road and the presence of a large water main preclude further soil excavation at this location. At the time of sample collection, the visual evidence from observation of the excavation sidewall and bottom showed that all free-phase PCE had been removed.

The analytical results of both rounds of post-excavation sampling are presented in Table 3. The locations of the 78 post-excavation samples are shown on Figures 4 through 10. The laboratory analytical reports are found in Appendix C.

2.4 Disposition of Generated Material

Soils classified as non-hazardous and hazardous waste was loaded and transported offsite for disposal. Excavated soil that was classified as clean was retained onsite for re-use as backfill material. All trucks transporting non-hazardous or hazardous soil were lined with plastic and covered with tarps. All loading was performed in a manner to avoid incidental spillage of soil during movement outside the work area. Soil loading into trucks was conducted over asphalt-paved surfaces.

Non-hazardous soil (333.51 tons) was transported to the Ontario County Landfill (Stanley, New York) and disposed after approval from the Ontario County Department of Solid Waste. The bills of lading for transport to and disposal at the Ontario County Landfill are found in Appendix D.

Hazardous soil (67.89 tons) was transported to the Chemical Waste Management Landfill (Model City, New York) and disposed after approval from the facility. The hazardous waste manifests for transport and disposal at the Model City site are found in Appendix E.

Two drums of water, one generated from Excavation B and one generated from equipment decontamination activities, were disposed of hazardous waste at CycleChem in Elizabeth, New Jersey. The hazardous waste manifests are found in Appendix E.

2.5 Earthwork and Site Restoration

The excavation areas were filled in with clean, imported fill and re-usable soils from the excavation areas. The excavation areas were re-graded to pre-excavation conditions. Prior to backfilling, Excavation A had a 6- mil

polyethylene liner placed along the length of the excavation base to just past the outfall extension to prevent oxygen-rich surface water from infiltrating to groundwater at this location.

Relatively low permeability soil was used to replace the soil removed from the excavation base to the approximate surface from which clean native soil was used. Clean soil, removed from the surface of the excavations that had clean surface soils, was reused to complete the backfilling process. The volumes of the re-used surface soil and clean low permeability replacement fill materials used are summarized in Table 4.

Table 4. Quantities of Native and Replacement Fill Material

<i>Excavation ID</i>	<i>Approximate Volume of Fill Material</i>	
	<i>Re-Used Surface soil</i>	<i>Clean, Imported Fill</i>
A	---	46 yd ³
A-1	---	6 yd ³
B	100 yd ³	46 yd ³
C	---	66 yd ³
D	45 yd ³	10 yd ³
E	40 yd ³	85 yd ³
F	35 yd ³	6 yd ³
Total:	220 yd³	265 yd³

The material used for fill, either native material from onsite or clean fill from offsite, did not contain brush, roots, sod, organic matter, and other unsuitable materials. All unsuitable items within the fill encountered during dumping or spreading were removed. Soil fill was spread in horizontal uniform lifts with each lift uniformly compacted. Loose lift thicknesses did not exceed 8 inches. Successive fill layers were not placed until the layer under construction has been properly compacted.

The fill was maintained and protected in a satisfactory condition at all times until final completion and acceptance of the work.

Excavated areas that were unpaved were restored with landscaping consistent with pre-existing conditions. Excavated areas that had been paved had the paved surface restored. Work staging areas on paved surfaces were swept and washed.

A final cleaning was performed to remove incidental construction debris, surplus materials, rubbish, and construction facilities from the work area.

2.6 Stormwater Outfall Extension

The stormwater outfalls from the southwest catch basin (CB-1547) and catch basin CB-1537 were extended to a point where the outfalls junction with the drainage swale along the east side of Colesville Road. These extensions are made of polyvinyl chloride (PVC) pipe. The locations of the outfall extensions are shown on Figure 11.

The extension from the CB-1547 outfall is approximately 20 feet in length. This extension is made of 12- inch-diameter PVC pipe, which was connected to the existing 12- inch diameter PVC pipe. This extension has a 45-degree elbow joint so that the length of the extension could be shortened.

The pipe extension from the CB-1537 outfall is approximately 15 feet in length and is made of 24- inch diameter PVC pipe. This pipe extension is joined to the existing 20-inch-diameter corrugated steel pipeline with a Fernco-type fitting.

As-built drawings of the stormwater outfall extensions are shown on Figures 11 and 12.

2.7 Roof Drain Leader Abandonment and Replacement

The roof drain leader associated with the removal of stormwater from the south side of the original facility building was abandoned and replaced at Universal's Kirkwood North facility (Figures 13 and 14). The southern roof drain system leader tied into a larger trunk line that connects to Catch Basin CB-1534 (Figure 14). The roof drain leader, as well as the trunk line, was abandoned by grouting and capping. The trunk line was made of 15-inch-diameter CSP pipe and the roof leader was made from 8-inch-diameter PVC pipe.

Stormwater runoff was re-routed to CB-1547 through a new connection. The new trunk line was installed running overhead within the building until the exterior wall is reached. At that point, the drain line descends down the interior of the exterior wall and exits the building at the base of the wall. The new trunk line is made of 8-inch cast iron pipe. The drain line discharges to a concrete spillway that drains to catch basin CB-1547. Figures 13 and 14 show the location and as-built details for this work.

2.8 Active Slab Depressurization System

Pilot studies have shown that a soil vapor extraction system will not be effective in removing VOC contamination from the very tight soils beneath the building. At the request of the NYSDEC, an ASD system was installed within the 1978 and 1984 additions to see if it could be helpful in reducing indoor air concentrations within the building. The ASD system is not intended to serve as a soil remedy for areas beneath the facility building that have subsurface soils affected by PCE contamination.

The ASD system installation was performed as a field fabrication. The ASD system fabrication used typical design criteria, specifications, and technology common to the radon control industry (see ASTM International Standard Practice E 212-01, March 2001). USEPA documents *Radon Prevention in the Design and Construction of Schools and Other Large Buildings* (USEPA Document No. EPA/625/R-92/016), *Radon Reduction Techniques for Existing Detached Houses* (USEPA Document No. EPA/625/R-93/011), and *Radon Mitigation Standards* (USEPA Document No. EPA 402-R-93-078) were consulted for technical design guidance.

A field test was performed to assess the materials underneath the floor slab and assess the potential for vacuum propagation and airflow beneath the slab. The test was performed because a minimum 4-inch-thick gravel bed is considered necessary for an ASD system to be able to promote sufficient air flow for proper slab depressurization (see page 12 of the USEPA Document No. EPA/625/R-92/016). If gravel bed less than 4 inches in thickness is encountered, a qualitative test for negative pressure field extension was performed as described in *Radon Mitigation Standards* (USEPA Document No. EPA 402-R-93-078, revised 4/94 and ASTM International Standard Practice E 212-01, March 2001).

The test was performed on June 17, 2003. Representatives of the NYSDEC (James Moras) and the New York State Department of Health (NYSDOH) (Daniel Sharron) were present. During the test, a vacuum consistent with design criteria (30 inches of water from a ShopVac) was applied to each proposed suction pit location. Small diameter (less than 0.5 inch) holes were drilled 5, 10, and 20 feet away and were monitored for negative pressure using a magnehelic gauge.

Examination of the suction test holes showed that the concrete floor slab is approximately 6 inches thick. Below the slab is a thin layer (no more than 1.5 inches to 2 inches) consisting of a mixture of crushed rock (0.5 to 1 inch nominal diameter) and silt. Below the crushed rock layer is reworked native silty clay and clayey silt that has been compacted. No continuous gravel layer was encountered at any of the four extraction points.

Testing on the first ASD test hole, which later became air extraction point ASD-1, showed that smoke could be pulled down into the slab at the 5-foot monitoring point, but not beyond. A pressure reading taken with a magnehelic showed that a vacuum of 0.45 inch of water was present. Readings taken at the 10- and 20- foot locations showed respective vacuum reading of 0.25 and 0.02 inch of water. This pattern of readings was similar at the other three locations.

Because the testing was performed during the summer, the minimum acceptable negative pressure reading for assuming adequate air flow is 0.025 to 0.035 inch of water (USEPA, 1993).

PID readings taken at the suction test holes showed VOC concentrations of 148 ppmv in the center of the 1984 addition (known "hot" soil spot), 5 ppmv at the electrical panel, 4.7 ppmv in the 1978 addition along the wall adjoining the office space (by the old loading dock), and 4.5 ppmv by the HVAC unit. PID readings taken on the monitoring holes showed similar or lesser readings with the following exceptions: the 20- foot monitoring hole at the electrical panel had a PID reading of 2,000 ppmv and the 20- foot monitoring point in the old loading dock area had a PID reading of 80 ppmv.

Based on the test results and after discussion with the NYSDEC and the NYSDOH, some modifications were made to the system. Two of the four extraction point locations were moved to spots where higher PID readings were observed; the fan specification was changed to the Radonaway High Suction Series fan (maximum draw rating of 35 inches of water); and the suction pits were installed through the slab using a nominal 5-inch-diameter corehole. The holes were filled with 4-inch pipe fitted into a slip-couple or flange fitting with a 5-inch-diameter. Gaps were sealed with non-shrinking urethane epoxy sealant.

Data collected from the ASD test is presented in Table 5.

2.8.1 ASD System Construction

Construction of the ASD system was performed between June 24 and June 30, 2003.

Four extraction points, ASD-1 through ASD-4, were installed at the approximate locations shown on Figure 14. Suction pits for each extraction point were prepared by coring a 4.25-inch- diameter hole through the slab and then clearing gravel and soil from beneath the slab to create a hemispherical pit. The suction pits are approximately 12 inches in diameter and have a nominal volume of at least one cubic foot. The extraction point riser pipe was constructed of Schedule 40 PVC with a 4-inch-diameter. The slab penetration for the depressurization points were cleaned, prepared, and sealed in an air-tight manner with a compatible sealant that will not shrink or crack (see Figure 15 for details).

One ventilation fan was installed and is used to operate the ASD system. This fan operates the four sub-slab depressurization points through a manifold setup. The fan is an exterior mount (Radonaway brand HS series

HS5000 fan). The fan is Underwriter's Laboratory (UL)-approved for outdoor use (UL standard 507) and meets all electrical code requirements.

The performance range of this fan is: electrical usage 180-320 watts, 50 inches of water maximum pressure, 53 standard cubic feet per minute (scfm) at 0.1 inch of water to 24 scfm at 35 inches of water. Fan installation followed the manufacturer's instructions.

All ASD system electrical components are UL listed or of equivalent specifications. All plastic vent pipes and fittings are made of Schedule 40 PVC.

The ASD system includes mechanisms to monitor system performance and warn of system failure (shut off). The electrical monitor is installed on non-switched circuits and is designed to reset automatically after a power supply interruption. Manometer-type pressure gauges are clearly marked to indicate the pressure readings that existed prior to system start. The circuit breakers controlling the circuits on which the vent fan and electrical system monitor operate are "ASD System."

ASD system construction details are shown on Figures 14 and 15.

2.8.2 ASD System Performance Monitoring

Because typical radon-venting systems operate without monitoring or maintenance for 8 to 11 years (timeframe for fans to wear out), this ASD system is not anticipated to require much operational oversight.

The system has been checked daily to verify operation since operation began on July 1, 2003. The system has had weekly pressure readings taken at each extraction point through October to verify that anticipated air flow is occurring at the depressurization points and negative pressure is detectable. Monitoring will be continued on a monthly basis for 6 months, after which this monitoring will no longer be performed.

During this start-up phase, VOC emissions from the system were periodically monitored using a PID calibrated to detect VOC concentrations in parts per billion by volume. Air emissions at the beginning of operation were approximately 2.5 ppmv and are presently 1.4 ppmv.

ASD operational data show that initial vacuum at the suction pits was approximately 0.82 inches of water. After 4 months of operation, the vacuum at the suction pits average 0.57 inch of water. This translates into an air flow rate of 39.4 standard cubic feet per minute (scfm). Vacuum readings observed at each extraction point have steadily declined since system operation began and, relative to each other, the vacuum readings have been consistently similar. ASD operational and monitoring data are presented in Table 5.

Indoor air samples were collected from five locations inside the facility three times after ASD system startup. The indoor air sampling locations are shown on Figure 16. Indoor air sampling results are discussed in Section 3 of this report.

At this time, the ASD system is operational and the data indicate that air flow has been achieved beneath the slab.

2.9 Deed Notice Areas

A deed notice with environmental restrictions will be filed with the Broome County Clerk's Office to provide an institutional control for inaccessible soils that remain below facility floor slabs. The deed notice is for the areas

beneath the footprints of the 1978 and 1984 building additions, areas beneath parts of the original building (1973) and the 1982 addition, and for seven additional areas where complete removal of soil to below the NYSDEC criterion for PCE was not achieved. A copy of the draft deed notice is provided in Appendix F.

The deed notice will be filed after remedial construction is complete and shortly after submission of the final Remediation Certification Report. A copy of the deed notice to be filed is attached to this final Remediation Certification Report (Appendix F).

The areas that will have environmental restrictions on the deed notice are shown on Figure 17.

3. Indoor Air Monitoring Program

Indoor air quality samples have been collected in the building at four locations since November 1998. Indoor air quality is presently being monitored during the initial operation of the ASD system through the collection of 8-hour time-weighted averaged (TWA) samples. The samples have been collected following the protocols presently in place and as described in BBL's *Indoor Air Sampling Plan* dated January 21, 2002. Two additional sampling locations were added to the four locations previously tested. The new locations were placed in the front of the original building and in the kitchen area of the original building. All indoor air sampling locations are shown on Figure 16.

The first set of indoor air samples that followed the ASD installation were collected on August 5, 2003, 35 days after the start up of the ASD system. The second post-ASD operation indoor air sampling event took place on September 18, 2003, 78 days after ASD start up. These two sample events represent the proposed 30-day and 90-day post-ASD start up indoor air monitoring events described in the *RD Package*.

The third indoor air sampling event was scheduled to be 180 days after ASD system startup and was performed in early January 2004. Subsequent to the third indoor air sampling event, routine indoor air sampling will be performed semi-annually in March/April and September until it has been determined that indoor air monitoring is no longer necessary.

The results of the three indoor air sampling events are summarized in Tables 6, 7, and 8. A summary of historical indoor air sampling results is provided in Table 9. Copies of the laboratory analytical reports for the August, September, and January indoor air sampling events are found in Appendix G.

A review of the historical indoor air sampling data indicates that the indoor air concentrations of PCE have declined in a steady manner within the rear building additions since the first indoor air samples were collected in November 1998.

The indoor air concentrations of PCE were detected at less than 100 micrograms per cubic meter ($\mu\text{g}/\text{M}^3$) during both the August and September 2003 sampling events at all sampling locations. Within the office space (sample designations Office #1, Office #2, and Cafeteria), the indoor air concentrations of PCE ranged between 17 $\mu\text{g}/\text{M}^3$ and 28 $\mu\text{g}/\text{M}^3$ during the August event and 23 $\mu\text{g}/\text{M}^3$ and 52 $\mu\text{g}/\text{M}^3$ during the September event. In January 2004, indoor air concentrations were 110 $\mu\text{g}/\text{M}^3$ in Office #1 (Rear) and the Cafeteria, 87 $\mu\text{g}/\text{M}^3$ in Office #2 (Front), 85 $\mu\text{g}/\text{M}^3$ in the AC Area, and 75 $\mu\text{g}/\text{M}^3$ in the Electrical Area. There is no explanation as to why two areas which previously were below 100, should have gone to 110, especially because the source areas had PCE concentrations that were 100 $\mu\text{g}/\text{M}^3$.

The rate of decline in indoor air PCE concentrations from late 1998 through January 2004 (accounting for fluctuations in the data set) does not change after the ASD system began operation in July 2003. For this reason, it is unclear at this time if operation of the ASD system has affected migration of PCE vapors.

The relatively uniform vacuum readings at each extraction point indicate that subsurface conditions beneath the building slab are similar at each location. Because the crushed rock/gravel slab base has a silty matrix further reductions or changes in ASD system vacuum readings are not anticipated. Operation of the ASD system has probably achieved equilibrium conditions beneath the slab, and therefore, further performance gains are unlikely.

Operation of the ASD system will continue along with periodic indoor air sampling events. Some fluctuations in indoor air PCE concentrations are anticipated to occur.

4. References

ASTM International. March 2001. *Standard Practice for Radon Mitigation Systems in Existing Low-Rise Residential Buildings*. Washington, D.C.

Blasland, Bouck & Lee, Inc. June 2003. *Remedial Design Package: Universal Instruments Corporation, Kirkwood, New York*. Cranbury, New Jersey.

New York State Department of Environmental Conservation (NYSDEC). January 2001. *Order on Consent: Index #B7-0515-97-05*. Albany, New York.

New York State Department of Environmental Conservation (NYSDEC). January 24, 1994. *Determination of Soil Cleanup Objectives and Cleanup Levels*. Technical and Administrative Guidance Memorandum (TAGM) #4046.

New York State Department of Environmental Conservation (NYSDEC). October 27, 1989. *Fugitive Dust Suppression And Particulate Monitoring Program At Inactive Hazardous Waste Sites*. TAGM #4031.

United States Environmental Protection Agency (USEPA). October 1993. *Radon Reduction Techniques for Existing Detached Houses*. EPA document number EPA/625/R-93/011. Washington, D.C.

Tables

TABLE 2

**DOVER CORPORATION/UNIVERSAL INSTRUMENTS
KIRKWOOD, NEW YORK**

**SOIL PILE ANALYTICAL RESULTS - TCLP AND PCBs
Former Dover Electronics Site
Kirkwood, New York**

Blasland, Bouck & Lee, Inc.	Sample ID	Stock Pile #1	Stock Pile #1	Stockpile #2	Stockpile #2	Stockpile #3	Stockpile #3	Stockpile #4	Stockpile #4
	Laboratory ID	649467	649468	649824	649826	649825	649827	650210	650211
	Date Sampled	6/16/2003	6/16/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/18/2003	6/18/2003
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l	mg/kg
TCLP Volatile Compounds	Regulatory Level (mg/L)						Total VOCs		Total VOCs
VinylChloride	0.2	<0.05		<0.05		<0.05	<1.4	<0.05	<30
1,1-Dichloroethene	0.7	<0.05		<0.05		<0.05	<1.4	<0.05	<30
2-Butanone	200	<0.1		<0.1		<0.1	<1.4	<0.1	<30
Chloroform	6	<0.05		<0.05		<0.05	<1.4	<0.05	<30
1,2-Dichloroethane	0.5	<0.05		<0.05		<0.05	<1.4	<0.05	<30
CarbonTetrachloride	0.5	<0.05		<0.05		<0.05	<1.4	<0.05	<30
Trichloroethene	0.5	<0.05		<0.05		<0.05	<1.4	<0.05	<30
Benzene	0.5	<0.05		<0.05		<0.05	<1.4	<0.05	<30
Tetrachloroethene	0.7	<0.05		0.37		1.9	28	26	800
Chlorobenzene	100	<0.05		<0.05		<0.05	<1.4	<0.05	<30
TCLP Semi-Volatile Compounds									
2-Methylphenol	200	<0.1		<0.1		<0.1		<0.1	
3-Methylphenol	200	<0.1		<0.1		<0.1		<0.1	
2,4,6-Trichlorophenol	2	<0.1		<0.1		<0.1		<0.1	
2,4,5-Trichlorophenol	400	<0.1		<0.1		<0.1		<0.1	
Pentachlorophenol	100	<0.5		<0.5		<0.5		<0.5	
1,4-Dichlorobenzene	7.5	<0.1		<0.1		<0.1		<0.1	
Hexachloroethane	3	<0.1		<0.1		<0.1		<0.1	
Nitrobenzene	2	<0.1		<0.1		<0.1		<0.1	
Hexachlorobutadiene	0.5	<0.1		<0.1		<0.1		<0.1	
4-Methylphenol	200	<0.1		<0.1		<0.1		<0.1	
Hexachlorobenzene	0.1	<0.1		<0.1		<0.1		<0.1	
2, 4-Dinitrotoluene	0.1	<0.1		<0.1		<0.1		<0.1	
Pyridine	5	<0.5		<0.5		<0.5		<0.5	
TCLP Herbicides									
2,4-D	10	<0.05		<0.05		<0.05		<0.05	
2,4,5-TP(Silvex)	1	<0.05		<0.05		<0.05		<0.05	
TCLP Pesticides									
gamma-BHC(Lindane)	0.4	<0.005		<0.005		<0.005		<0.005	
Chlordane	0.03	<0.02		<0.02		<0.02		<0.02	
Endrin	0.02	<0.005		<0.005		<0.005		<0.005	
Heptachlor	0.008	<0.005		<0.005		<0.005		<0.005	
Heptachlorepoxyde	0.008	<0.005		<0.005		<0.005		<0.005	
Methoxychlor	10	<0.02		<0.02		<0.02		<0.02	
Toxaphene	0.5	<0.005		<0.005		<0.005		<0.005	
TCLP Metals									
Arsenic	5	<0.5		<0.5		<0.5		<0.5	
Barium	100	<1		<1		<1		<1	
Cadmium	1	<0.1		<0.1		<0.1		<0.1	
Chromium	5	<0.1		<0.1		<0.1		<0.1	
Lead	5	<0.1		<0.1		<0.1		<0.1	
Mercury	0.2	<0.003		<0.003		<0.003		<0.003	
Selenium	1	<0.5		<0.5		<0.5		<0.5	
Silver	5	<0.1		<0.1		<0.1		<0.1	
Polychlorinated Biphenyls (PCBs) [mg/kg]									
Aroclor-1016			<0.04		<0.036		<0.037		<0.039
Aroclor-1221			<0.04		<0.036		<0.037		<0.039
Aroclor-1232			<0.04		<0.036		<0.037		<0.039
Aroclor-1242			<0.04		<0.036		<0.037		<0.039
Aroclor-1248			<0.04		<0.036		<0.037		<0.039
Aroclor-1254			<0.04		<0.036		<0.037		<0.039
Aroclor-1260			<0.04		<0.036		<0.037		<0.039
RCRA Characteristics									
Cyanide Reactivity		<5		<5		<5		<5	
Sulfide Reactivity		>100 °C		>100 °C		>100 °C		>100 °C	
Flash Point		<50		<50		<50		<50	
pH		7.22		7.83		8		9.68	

Notes:

Stockpile #1 = Non-hazardous soil from Excavations "A" and "A-1"

Stockpile #2 = Non-hazardous soil from Excavations "B", "C", "D", "E", and "F"

Stockpile #3 = Hazardous soil from Excavation "E"

Stockpile #4 = Hazardous soil from Excavations "B" and "D"

TABLE 3

DOVER CORPORATION/UNIVERSAL INSTRUMENTS
KIRKWOOD, NEW YORK

POST EXCAVATION SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Former Dover Electronics Site
Kirkwood, New York

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-A-1	PX-A-2	PX-A-3	PX-A-4	PX-A-5	PX-A-6	PX-A-7	PX-A-8	PX-A-9	
	Laboratory I.D.	649458	649459	649460	649461	649462	649463	649464	649465	651556	
	Date Collected	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/242003	
Volatiles Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	
1,1-Dichloroethane	200	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	
1,1-Dichloroethene	400	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	
trans-1,2-Dichloroethene	100	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	
cis-1,2-Dichloroethene	300	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	
Tetrachloroethene	1,400	< 550	< 560	160 J	<510	<660	1,700	<590	<530	<450	
Trichloroethene	700	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	
Vinyl Chloride	120	< 550	< 560	<710	<510	<660	<520	<590	<530	<450	

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-B-1	PX-B-2	PX-B-3	PX-B-4	PX-B-5	PX-B-6	PX-B-7	PX-B-8	PX-B-9	PX-B-10
	Laboratory I.D.	650174	650175	650176	650177	650178	650179	650180	650181	650182	650183
	Date Collected	6/18/2003	6/18/2003	6/18/2003	6/18/2003	6/18/2003	6/18/2003	6/18/2003	6/18/2003	6/18/2003	6/18/2003
Volatiles Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<440	<460	<910	<890	<440	<460	<460	300 J	<430	<450
1,1-Dichloroethane	200	<440	<460	<910	<890	<440	<460	<460	<490	<430	<450
1,1-Dichloroethene	400	<440	<460	<910	<890	<440	<460	<460	1,400	<430	<450
trans-1,2-Dichloroethene	100	<440	<460	<910	<890	<440	<460	<460	<490	<430	<450
cis-1,2-Dichloroethene	300	150 J	<460	<910	<890	250 J	<460	<460	<490	<430	<450
Tetrachloroethene	1,400	6,900	17,000	5,700	30,000	5,700	120,000 D	13,000	5,000	52,000 D	7,700
Trichloroethene	700	<440	<460	<910	<890	<440	<460	<460	<490	<430	<450
Vinyl Chloride	120	<440	<460	<910	<890	<440	<460	<460	<490	<430	<450

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-B-11	PX-B-12	PX-B-13	PX-B-14	PX-B-15	PX-B-16	PX-B-17	PX-B-18		
	Laboratory I.D.	652000	652001	652002	652003	652004	652005	652006	652007		
	Date Collected	6/25/2003	6/25/2003	6/25/2003	6/25/2003	6/25/2003	6/25/2003	6/25/2003	6/25/2003		
Volatiles Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<440	<460	<440	<430	<420	<500	<390	<470		
1,1-Dichloroethane	200	<440	<460	<440	<430	<420	<500	<390	<470		
1,1-Dichloroethene	400	<440	<460	<440	<430	<420	<500	<390	<470		
trans-1,2-Dichloroethene	100	<440	<460	<440	<430	<420	<500	<390	<470		
cis-1,2-Dichloroethene	300	<440	<460	<440	<430	<420	<500	<390	<470		
Tetrachloroethene	1,400	650	<460	580	320 J	280 J	<500	<390	330 J		
Trichloroethene	700	<440	<460	<440	<430	<420	<500	<390	<470		
Vinyl Chloride	120	<440	<460	<440	<430	<420	<500	<390	<470		

NOTES:

J - Estimated result less than reporting limit

denotes second round of post excavation sampling

TABLE 3 (continued)

DOVER CORPORATION/UNIVERSAL INSTRUMENTS
KIRKWOOD, NEW YORK

POST EXCAVATION SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Former Dover Electronics Site
Kirkwood, New York

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-C-1	PX-C-2	PX-C-3	PX-C-4	PX-C-5	PX-C-6	PX-C-7	PX-C-8	PX-C-9	PX-C-10
	Laboratory I.D.	650559	650560	650561	650562	650563	650564	650565	650566	650567	650568.00
	Date Collected	6/19/2003	6/19/2003	6/19/2003	6/19/2003	6/19/2003	6/19/2003	6/19/2003	6/19/2003	6/19/2003	6/19/2003
Volatile Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460
1,1-Dichloroethane	200	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460
1,1-Dichloroethene	400	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460
trans-1,2-Dichloroethene	100	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460
cis-1,2-Dichloroethene	300	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460
Tetrachloroethene	1,400	270 J	620	130 J	380 J	240 J	1,300	4,700	1,900	890	930
Trichloroethene	700	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460
Vinyl Chloride	120	<480	<620	<600	<480	<430	<480	<560	<440	<490	<460

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-C-11	PX-C-12	PX-C-13	PX-C-14	PX-C-15	PX-D-1	PX-D-2	PX-D-3	PX-D-4	PX-D-5
	Laboratory I.D.	652398	652399	652400	652401	650563	651153	651154	651155	651156	651157
	Date Collected	6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/23/2003	6/23/2003	6/23/2003	6/23/2003	6/23/2003
Volatile Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	390 J	380 J	350 J	<460	<430	<530	<610	<430	<420	<480
1,1-Dichloroethane	200	<490	<530	<400	<460	<430	<530	<610	<430	<420	<480
1,1-Dichloroethene	400	<490	<530	<400	<460	<430	<530	<610	<430	<420	<480
trans-1,2-Dichloroethene	100	<490	<530	<400	<460	<430	<530	<610	<430	<420	<480
cis-1,2-Dichloroethene	300	<490	<530	<400	<460	<430	<530	<610	<430	<420	<480
Tetrachloroethene	1,400	1,600	850	510	1,100	<430	<530	4,600	17,000	2,800	1,300
Trichloroethene	700	<490	<530	<400	<460	<430	<530	<610	<430	<420	<480
Vinyl Chloride	120	<490	<530	<400	<460	<430	<530	<610	<430	<420	<480

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-D-6	PX-D-7	PX-D-8	PX-D-9	PX-D-10	PX-D-11	PX-D-12	PX-D-13	PX-D-14	
	Laboratory I.D.	651158	651159	651160	652403	652504	652405	652406	652407	652408	
	Date Collected	6/23/2003	6/23/2003	6/23/2003	6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/26/2003	
Volatile Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<490	<420	<430	<420	<390	<400	<400	<450	<410	
1,1-Dichloroethane	200	<490	<420	<430	<420	<390	<400	<400	<450	<410	
1,1-Dichloroethene	400	<490	<420	<430	<420	<390	<400	<400	<450	<410	
trans-1,2-Dichloroethene	100	<490	<420	<430	<420	<390	<400	<400	<450	<410	
cis-1,2-Dichloroethene	300	<490	<420	<430	<420	<390	<400	<400	<450	<410	
Tetrachloroethene	1,400	3,500	5,300	980	<420	<390	<400	1,100	630	86,000	
Trichloroethene	700	<490	<420	<430	<420	<390	<400	<400	<450	<410	
Vinyl Chloride	120	<490	<420	<430	<420	<390	<400	<400	<450	<410	

NOTES:

J - Estimated result less than reporting limit

denotes second round of post excavation sampling

TABLE 3 (continued)

DOVER CORPORATION/UNIVERSAL INSTRUMENTS
KIRKWOOD, NEW YORK

POST EXCAVATION SOIL ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Former Dover Electronics Site
Kirkwood, New York

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-E-1	PX-E-2	PX-E-3	PX-E-4	PX-E-5	PX-E-6	PX-E-7	PX-E-8	PX-E-9	PX-E-10
	Laboratory I.D.	649727	649730	649731	649733	649734	649736	649738	649739	653665	653666
	Date Collected	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	6/17/2003	7/1/2003	7/1/2003
Volatile Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510
1,1-Dichloroethane	200	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510
1,1-Dichloroethene	400	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510
trans-1,2-Dichloroethene	100	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510
cis-1,2-Dichloroethene	300	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510
Tetrachloroethene	1,400	5,400	4,900	6,400	<470	<430	<420	170 J	2,700	<460	<510
Trichloroethene	700	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510
Vinyl Chloride	120	<430	<450	<430	<470	<430	<420	<410	<430	<460	<510

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-E-11	PX-E-12	PX-F-1	PX-F-2	PX-F-3	PX-F-4	PX-F-5			
	Laboratory I.D.	653667	653668	651161	651162	651163	651164	651165			
	Date Collected	7/1/2003	7/1/2003	6/23/2003	6/23/2003	6/23/2003	6/23/2003	6/23/2003			
Volatile Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<440	<440	<430	<430	<420	<430	<440			
1,1-Dichloroethane	200	<440	<440	<430	<430	<420	<430	<440			
1,1-Dichloroethene	400	<440	<440	<430	<430	<420	<430	<440			
trans-1,2-Dichloroethene	100	<440	<440	<430	<430	<420	<430	<440			
cis-1,2-Dichloroethene	300	<440	<440	<430	<430	<420	<430	<440			
Tetrachloroethene	1,400	14,000	2,000	<430	<430	<420	<430	<440			
Trichloroethene	700	<440	<440	<430	<430	<420	<430	<440			
Vinyl Chloride	120	<440	<440	<430	<430	<420	<430	<440			

Blasland, Bouck & Lee, Inc.	Sample I.D.	PX-A1-1	PX-A1-2	PX-A1-3	PX-A1-4	PX-A1-5					
	Laboratory I.D.	649744	649746	649748	651554	651555					
	Date Collected	6/17/2003	6/17/2003	6/17/2003	6/24/2003	6/24/2003					
Volatile Organic Compounds	Regulatory Limit (ug/kg)										
1,1,1-Trichloroethane	760	<460	<480	<500	<470	<480					
1,1-Dichloroethane	200	<460	<480	<500	<470	<480					
1,1-Dichloroethene	400	<460	<480	<500	<470	<480					
trans-1,2-Dichloroethene	100	<460	<480	<500	<470	<480					
cis-1,2-Dichloroethene	300	<460	<480	<500	<470	<480					
Tetrachloroethene	1,400	340 J	900	5,300	1,200	18,000					
Trichloroethene	700	<460	<480	<500	<470	<480					
Vinyl Chloride	120	<460	<480	<500	<470	<480					

NOTES:

J - Estimated result less than reporting limit

 denotes second round of post excavation sampling

TABLE 5

**DOVER CORPORATION/UNIVERSAL INSTRUMENTS
KIRKWOOD, NEW YORK**

**ASD SYSTEM TEST AND OPERATIONAL DATA
Former Dover Electronics Site
Kirkwood, New York**

	ASD-1 Area	ASD-2 Area	ASD-3 Area	ASD-4 Area		
ASD TEST						
A - Vacuum ("of Water)					Vacuum applied to "A" test holes at 36" of water	
A - PID Reading (ppmv)	148*	5	4.7	4.5*	B,C, & D test holes at radii of 5, 10, & 20 feet from "A"	
B - Vacuum (" of Water)	0.45	0.4	0.3	0.6		
B - PID Reading (ppmbv)	14	7	2	1		
C - Vacuum (" of Water)	0.25	0.2	0.1	0.1	* Locations chosen for ASD extraction points	
C - PID Reading (ppmv)	0.5	35	9	12		
D - Vacuum ("of Water)	0.02	0.01	0	0		
D - PID Reading (ppmv)	0	2,165*	80*	0		
ASD OPERATION	ASD-1	ASD-2	ASD-3	ASD-4	Discharge	VOC Effluent
	(Pressure Readings [Inches of Water])				(cfm)	(ppbv)
Start Up: 7-01-03						
9:10	0.82	0.8	0.82	0.82		
9:20	0.82	0.8	0.82	0.82		
9:35	0.82	0.8	0.83	0.82		
10:05	0.82	0.8	0.83	0.82		
11:05	0.84	0.8	0.84	0.84		
7/2/2003	0.84	0.8	0.84	0.84	36	2,275
7/11/2003	0.78	0.78	0.8	0.78	39.4	2,500
7/15/2003	0.78	0.74	0.78	0.78		
7/22/2003	0.78	0.74	0.78	0.78		
7/28/2003	0.76	0.76	0.76	0.76		
8/5/2003	0.74	0.7	0.74	0.74		
8/14/2003	0.72	0.7	0.72	0.72		
8/20/2003	0.72	0.68	0.72	0.72		
8/28/2003	0.7	0.66	0.7	0.7		
9/3/2003	0.68	0.66	0.68	0.68		
9/12/2003	0.68	0.64	0.68	0.68		
9/18/2003					39.4	1,432
9/19/2003	0.68	0.64	0.68	0.68		
9/24/2003	0.66	0.62	0.66	0.66		
9/30/2003	0.64	0.6	0.64	0.64		
10/10/2003	0.62	0.58	0.62	0.62		
10/20/2003	0.58	0.54	0.58	0.58		

**UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK**

TABLE 6

INDOOR AIR SAMPLE RESULTS FOR TO-15 VOCS (August 5, 2003)
FORMER DOVER ELECTRONICS SITE
KIRKWOOD, NEW YORK

Volatile Organic Compound	Outside (Background) Sample		A/C Area Sample		Electrical Area Sample		Office Area Sample #1		Office Area Sample #2		Cafeteria		Occupational* Exposure Limits	
	Result PPBV	<i>Conversion Factor</i>	Result ug/M ³	Result PPBV	Result ug/M ³	ACGIH TLV or OSHA PEL ug/M ³								
2-Butanone (MEK)	0.92	3.00	2.7	1.6	4.7	1.1	3.3	2.6	7.6	1.3	3.9	0.93	2.7	1,770,000
1,2,4-Trimethylbenzene		5.00												123,000
1,3,5-Trimethylbenzene		5.00												123,000
cis-1,2-Dichloroethene		4.03		0.36	1.4									790,000
Carbon Disulfide	0.41	3.16	1.3											60,000
Acetone	10	2.42	24	16	38	11	27	14	34	11	26	8.6	21	2,400,000
Benzene		3.25												3,250
Vinyl Acetate	1.6	3.58	5.6	2.0	6.9	1.1	3.8	1.8	6.2	1.7	5.9	1.0	3.6	15,000
Chlorobenzene		4.68												350,000
Chloromethane		2.10												210,000
Dichlorodifluoromethane		5.03												4,950,000
Ethylbenzene		4.41												434,000
Freon 113		7.79		0.31	2.4	0.24	1.8							7,670,000
n-Hexane		3.58												1,800,000
Total Xylenes		4.41		0.56	2.4	0.51	2.2	0.31	1.4					434,000
Styrene		4.33												215,000
Tetrachloroethene (PCE)		6.89		14	94	9.4	64	2.9	20	4.1	28	2.5	17	170,000
Toluene	1.2	3.83	4.5	1.7	6.2	2.6	9.6	2.5	9.5	2.6	10	1.5	5.7	188,000
Trichloroethene (TCE)		5.46												269,000
Trichlorofluoromethane	0.27	5.71	1.5	4.8	27	3.7	21	0.98	5.5	1.1	6.1	1.2	6.7	5,600,000
Vinyl Chloride		2.60												2,600

NOTES: PPBV = Parts per billion by volume, ug/M³ = micrograms per cubic meter,
ACGIH = American Conference of Governmental Industrial Hygienists, TLV = Threshold Limit Value
OSHA = Occupational Safety and Health Administration, PEL = Permissible Exposure Limit
* Lower of TLV or PEL is listed in column (from ACGIH, *Guide to Occupational Exposure Values*, 2001)

Bold = Compounds of Concern

**UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK**

TABLE 7

INDOOR AIR SAMPLE RESULTS FOR TO-15 VOCS (September 18, 2003)
FORMER DOVER ELECTRONICS SITE
KIRKWOOD, NEW YORK

Volatile Organic Compound	Outside (Background) Sample			A/C Area Sample		Electrical Area Sample		Office Area Sample #1		Office Area Sample #2		Cafeteria		Occupational* Exposure Limits
	Result PPBV	Conversion Factor	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	ACGIH TLV or OSHA PEL ug/M ³
2-Butanone (MEK)	0.53	3.00	1.6	0.87	2.6	1.1	3.4	0.49	1.4	1.3	3.9	0.43	1.3	1,770,000
1,2,4-Trimethylbenzene		5.00												123,000
1,3,5-Trimethylbenzene		5.00												123,000
cis-1,2-Dichloroethene		4.03		0.38	1.5									790,000
Carbon Disulfide	0.41	3.16	1.3											60,000
Acetone	4.9	2.42	12	4.9	12	5.5	13	6	14	4.2	9.9	4.2	10	2,400,000
Benzene		3.25						0.40	1.3					3,250
Vinyl Acetate	1.6	3.58	5.6	0.61	2.1	1.1	3.8	0.72	2.5	1.7	5.9			15,000
Chlorobenzene		4.68												350,000
Chloromethane		2.10												210,000
Dichlorodifluoromethane		5.03												4,950,000
Ethylbenzene		4.41												434,000
Freon 113		7.79		0.27	2.0	0.22	1.7							7,670,000
n-Hexane		3.58												1,800,000
Total Xylenes	0.43	4.41	1.8	0.46	2.0	0.50	2.2	0.50	2.2	0.37	1.6	0.41	1.8	434,000
Styrene	0.51	4.33	2.2	0.38	1.6	0.39	1.7	0.64	2.7	0.34	1.5	0.41	1.7	215,000
Tetrachloroethene (PCE)	0.32	6.89	2.20	13	88	9.1	62	7.7	52	3.6	24	3.4	23	170,000
Toluene	1.2	3.83	4.5	1.3	4.7	1.5	5.5	1.0	3.9	1.3	5	2.4	8.9	188,000
Trichloroethene (TCE)		5.46												269,000
Trichlorofluoromethane	0.26	5.71	1.5	1.7	9.7	2.2	12	0.61	3.4	0.78	4.4	0.85	4.8	5,600,000
Vinyl Chloride		2.60												2,600

NOTES: PPBV = Parts per billion by volume, ug/M³ = micrograms per cubic meter,
ACGIH = American Conference of Governmental Industrial Hygienists, TLV = Threshold Limit Value
OSHA = Occupational Safety and Health Administration, PEL = Permissible Exposure Limit

* Lower of TLV or PEL is listed in column (from ACGIH, *Guide to Occupational Exposure Values*, 2001)

Bold = Compounds of Concern

**UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK**

TABLE 8

INDOOR AIR SAMPLE RESULTS FOR TO-15 VOCS (January 6, 2004)
FORMER DOVER ELECTRONICS SITE
KIRKWOOD, NEW YORK

Volatile Organic Compound	Outside (Background) Sample		A/C Area Sample		Electrical Area Sample		Office Area Sample #1 (Rear)		Office Area Sample #2 (Front)		Cafeteria		Occupational* Exposure Limits	
	Result PPBV	Conversion Factor	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	Result PPBV	Result ug/M ³	ACGIH TLV or OSHA PEL ug/M ³
2-Butanone (MEK)		3.00		0.62	1.8					0.79	2.3	0.60	1.8	1,770,000
1,2,4-Trimethylbenzene		5.00												123,000
1,3,5-Trimethylbenzene		5.00												123,000
cis-1,2-Dichloroethene		4.03		0.91	3.6			0.32	1.3			0.89	3.5	790,000
Carbon Disulfide		3.16								1.2	3.6			60,000
Acetone		2.42		4.0	10	3.3	7.8	4.5	11	5.2	12.0	4.2	10	2,400,000
Benzene		3.25												3,250
Vinyl Acetate		3.58								0.39	1.4			15,000
Chlorobenzene		4.68												350,000
Chloromethane		2.10												210,000
Dichlorodifluoromethane		5.03												4,950,000
Ethylbenzene		4.41												434,000
Freon 113		7.79		0.43	3.3	0.42	3.2	0.54	4.2	0.46	3.6	0.86	6.6	7,670,000
n-Hexane		3.58												1,800,000
Total Xylenes		4.41												434,000
Styrene		4.33												215,000
Tetrachloroethene (PCE)		6.89		12	85	11	75	16	110	13	87	16	110	170,000
Toluene		3.83		0.7	2.6	0.65	2.4	0.7	2.6	0.68	3	0.79	3.0	188,000
Trichloroethene (TCE)		5.46		0.31	1.7							0.31	1.70	269,000
Trichlorofluoromethane	0.26	5.71	1.5	0.81	4.5	1.2	6.5	0.64	3.6	0.64	3.6	0.67	3.7	5,600,000
Vinyl Chloride		2.60												2,600

NOTES: PPBV = Parts per billion by volume, ug/M³ = micrograms per cubic meter,
ACGIH = American Conference of Governmental Industrial Hygienists, TLV = Threshold Limit Value
OSHA = Occupational Safety and Health Administration, PEL = Permissible Exposure Limit

* Lower of TLV or PEL is listed in column (from ACGIH, *Guide to Occupational Exposure Values*, 2001)

Bold = Compounds of Concern

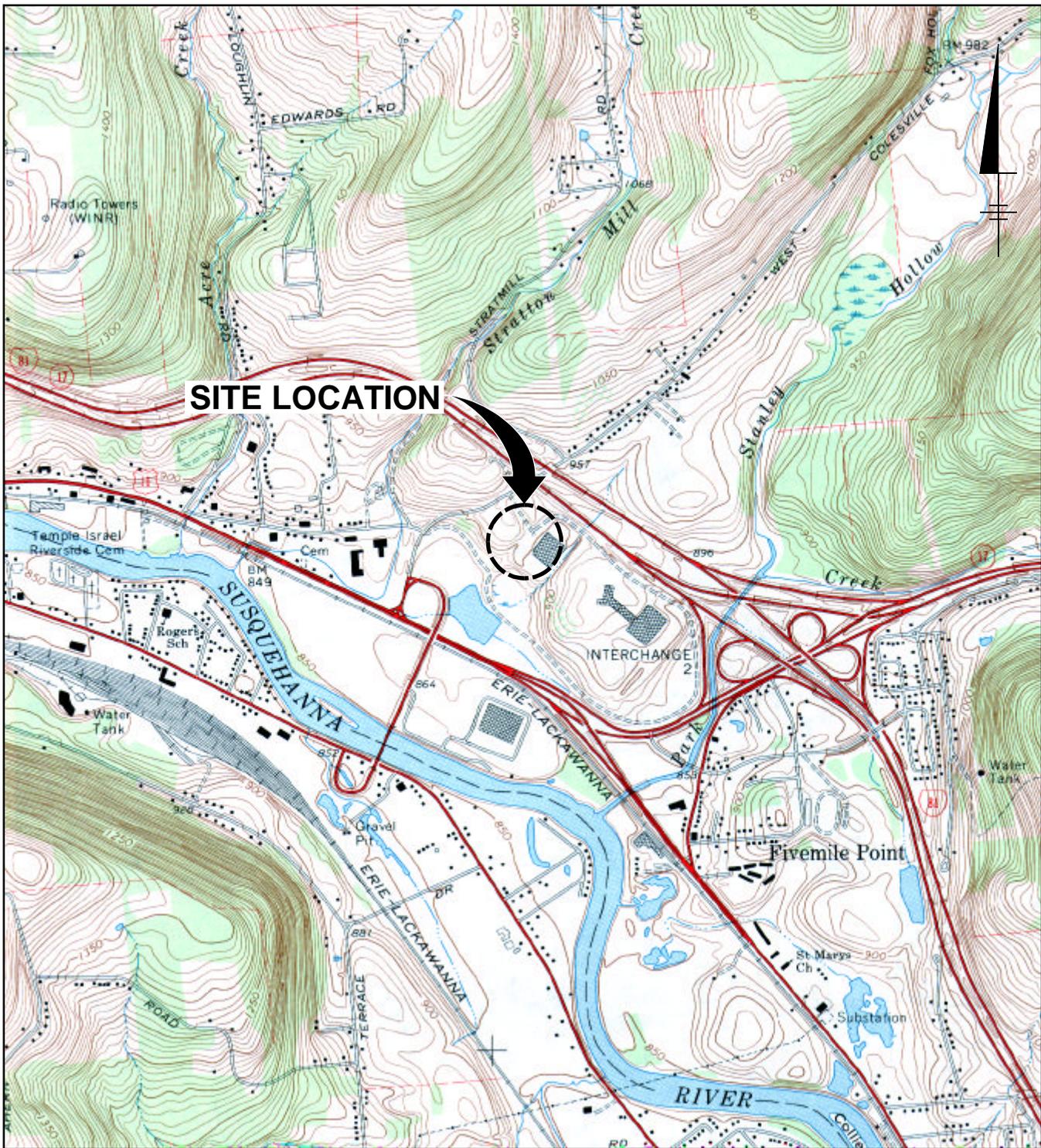
**UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK**

TABLE 9

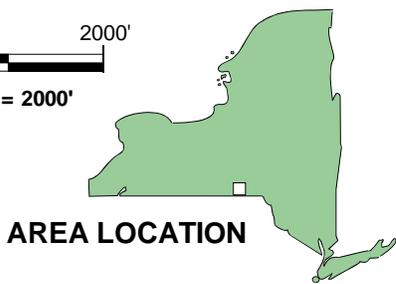
HISTORICAL INDOOR AIR VOC SAMPLE RESULTS
FORMER DOVER ELECTRONICS SITE

	PCE µg/m3	TCE µg/m3	Cis-1,2-DCE µg/m3	Vinyl Chloride µg/m3	
OFFICE #1					
Nov-98	61	-	-	-	
Dec-98	35	-	-	-	
Mar-99	58	-	-	-	
Feb-02	36	-	-	-	
Apr-02	68	-	-	-	
May-02	27	-	-	-	
Sep-02	60	1.3	-	-	
Aug-03	20	-	-	-	
Sep-03	52	-	-	-	
Jan-04	110	1.3	-	-	
OFFICE #2					
Aug-03	28	-	-	-	
Sep-03	24	-	-	-	
Jan-04	87	-	-	-	
CAFETERIA					
Aug-03	17	-	-	-	
Sep-03	23	-	-	-	
Jan-04	110	1.7	3.5	-	
ELECTRICAL AREA					
Nov-98	1,017	-	17.8	-	
Dec-98	678	-	9.5	-	
Mar-99	387	-	6.3	-	
Feb-02	186	4.4	6.1	-	
Apr-02	406	8.2	14.1	1.6	
May-02	165	1.9	4.8	-	
Sep-02	124	2.6	3.7	-	
Aug-03	64	-	-	-	
Sep-03	62	-	-	-	
Jan-04	75	-	-	-	
A/C AREA					
Nov-98	482	6.5	15.9	-	
Dec-98	244	3.6	7.5	-	
Mar-99	183	-	5.6	-	
Feb-02	165	4.9	8.1	-	
Apr-02	248	4.9	10.5	-	
May-02	138	2.1	5.2	-	
Sep-02	110	2.6	3.6	-	
Aug-03	94	-	1.4	-	
Sep-03	88	-	-	-	
Jan-04	85	1.7	3.6	-	
BACKGROUND					
Nov-98	-	-	-	-	
Dec-98	-	-	-	-	
Mar-99	-	-	-	-	
Feb-02	-	-	-	-	
Apr-02	13	4	-	-	
May-02	-	-	-	-	
Sep-02	-	-	-	-	
Aug-03	-	-	-	-	
Sep-03	2.2	-	-	-	
Jan-04	-	-	-	-	

Figures



REFERENCE: Base Map Source USGS 7.5 Minute Quad. Series Binghamton East, New York, 1968, Photorevised 1976.

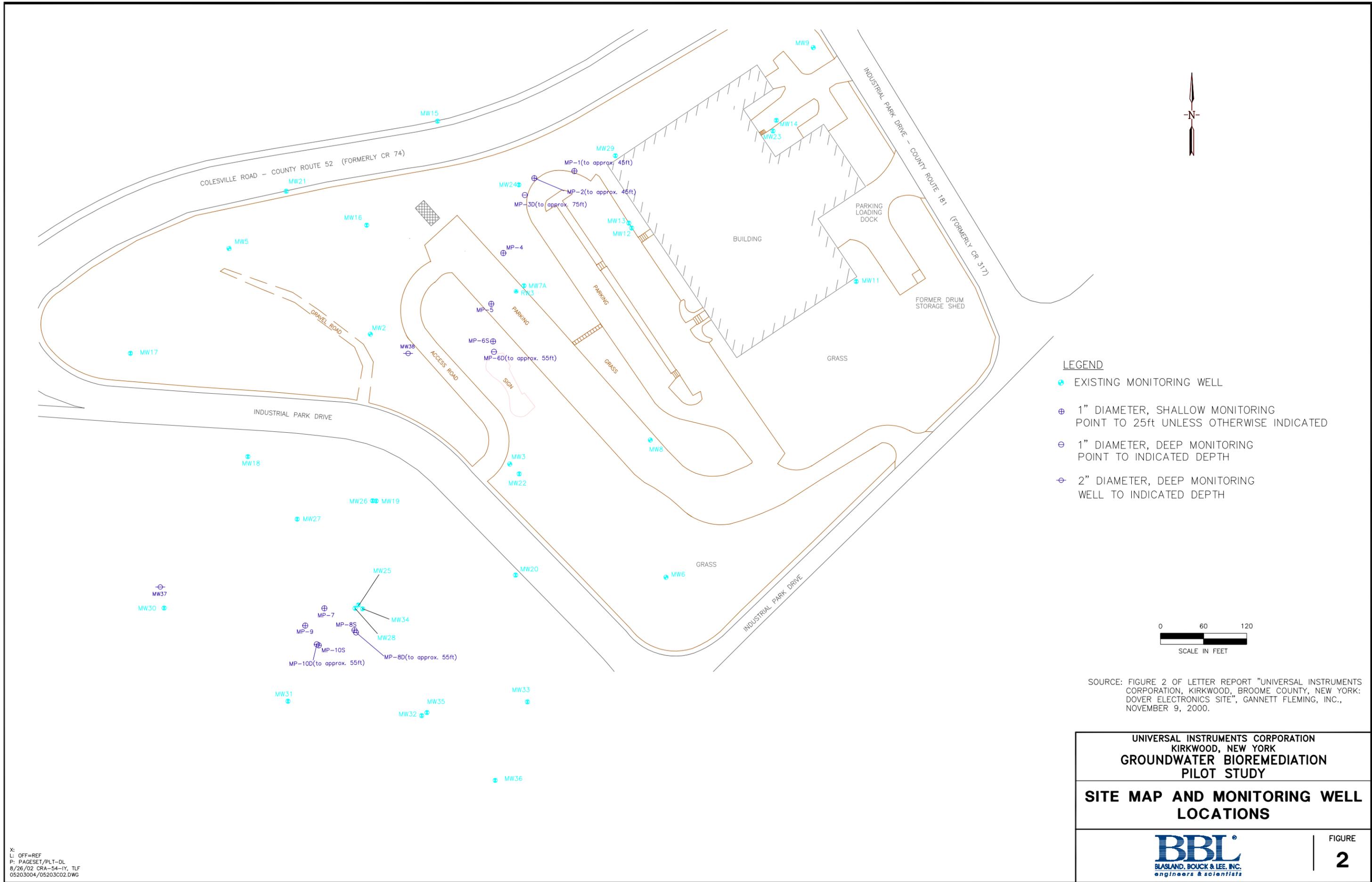


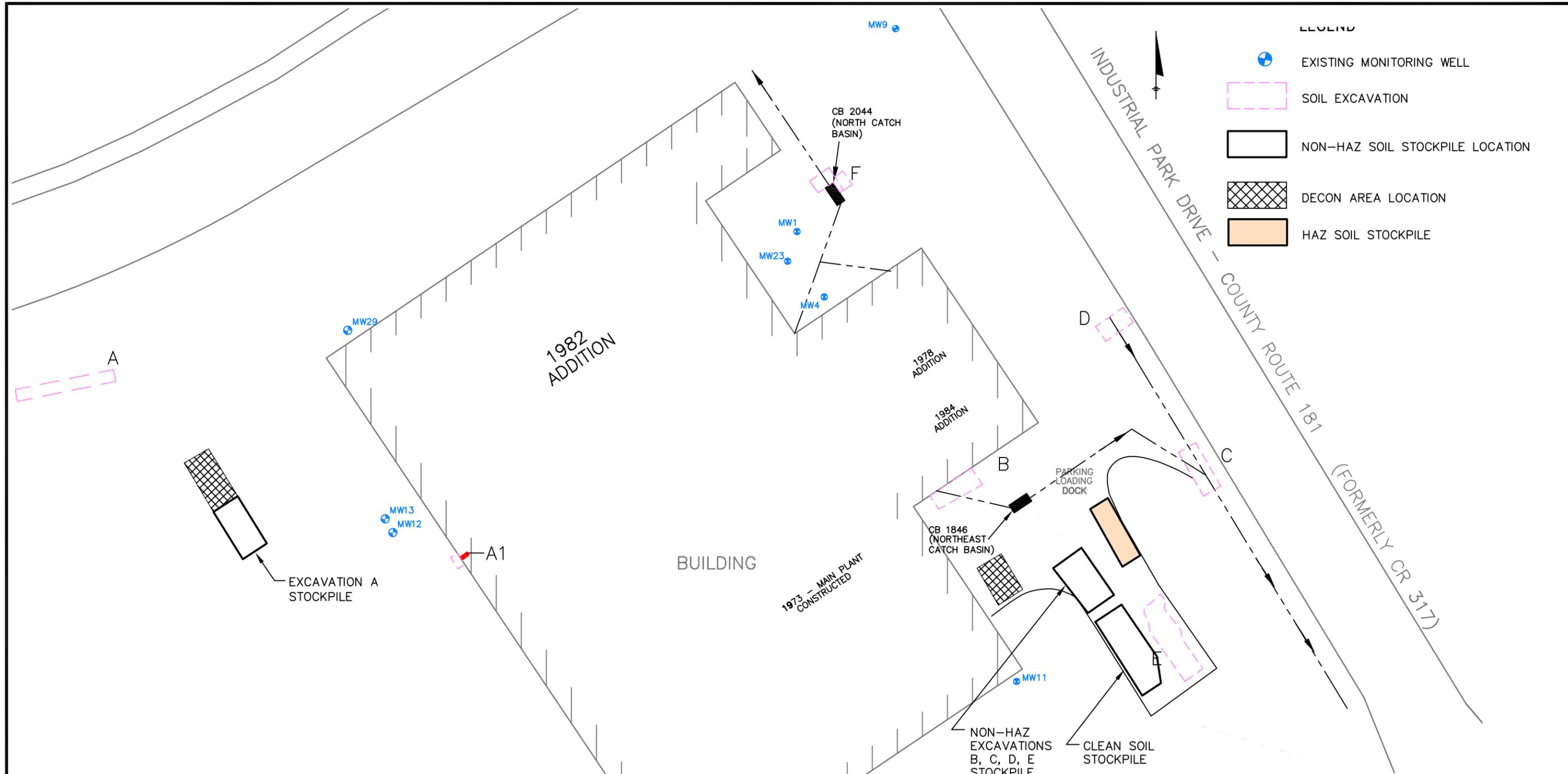
AREA LOCATION

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK

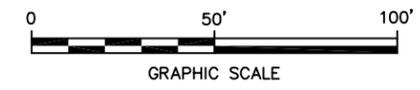
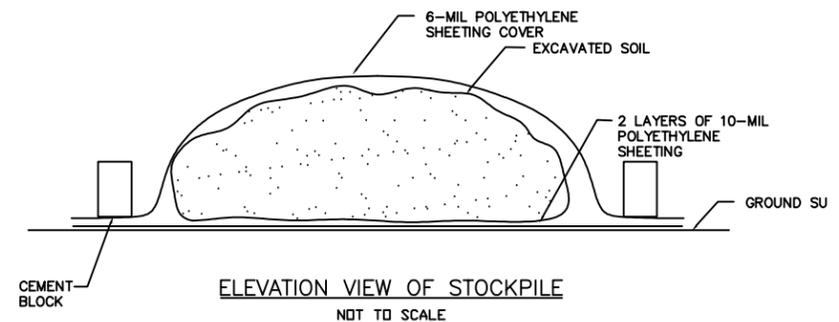
LOCATION MAP

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





SOURCE:
 FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

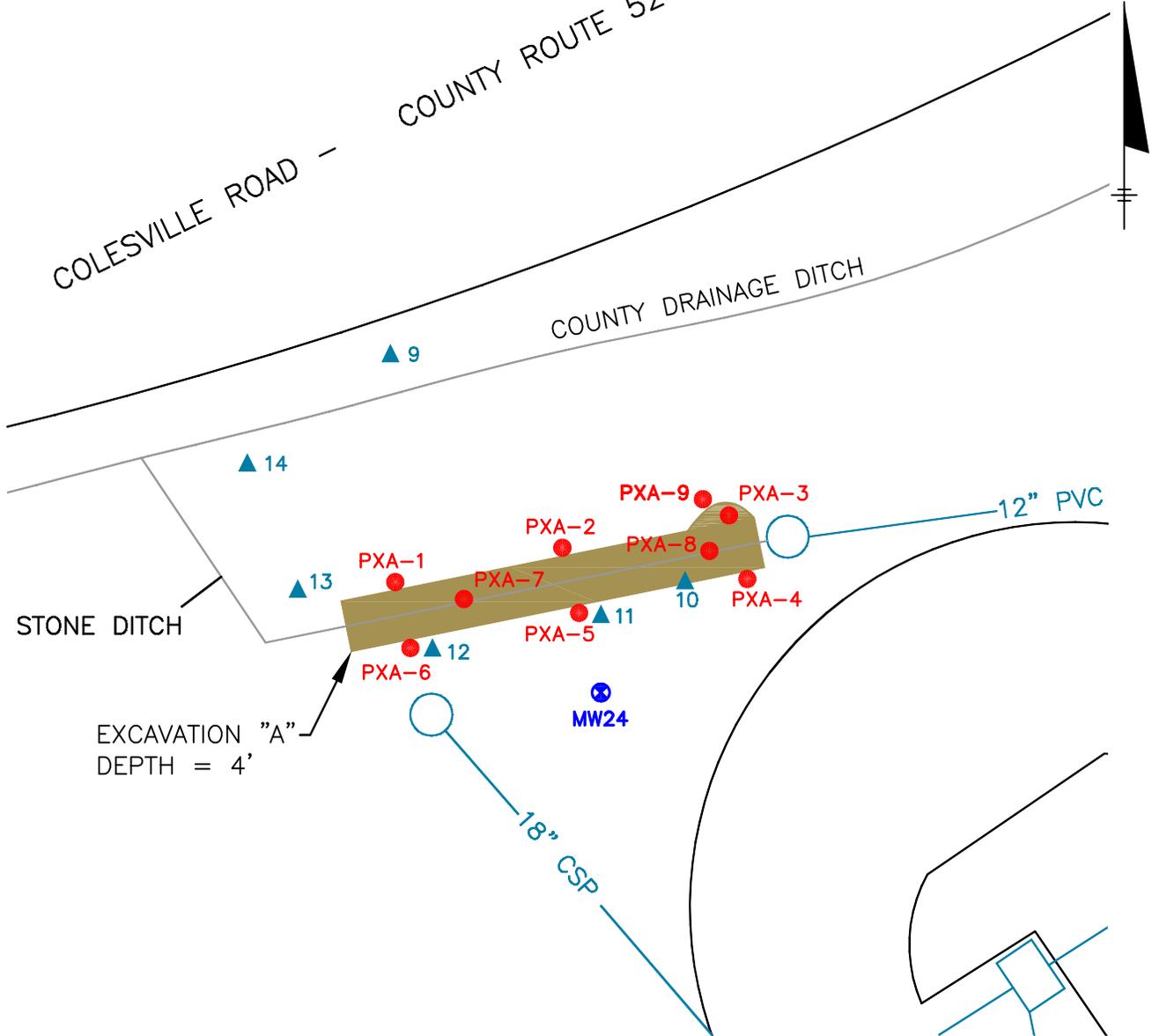


UNIVERSAL INSTRUMENTS CORPORATION KIRKWOOD, NEW YORK	
REMEDIAL CERTIFICATION REPORT	
REMEDIAL ACTION LOCATIONS	
	FIGURE 3

X: 05203X02.DWG
 L: OFF=REF,SS,PHASE 1
 P: PAGESET/PLT-BL
 11/06/03 CRA-85-IY, TLF
 05203008/05203G05.DWG

COLESVILLE ROAD - COUNTY ROUTE 52

COUNTY DRAINAGE DITCH

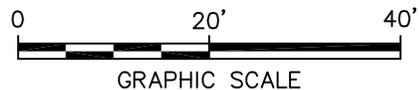


LEGEND

-  MONITORING WELL
-  SOIL BORING LOCATION
-  CATCH BASIN
-  OUTFALL
-  POST-EXCAVATION SOIL SAMPLING LOCATION

SOURCE:

ADAPTED FROM FIGURES FROM REMEDIAL INVESTIGATION REPORT, SHIELD ENVIRONMENTAL ASSOCIATES, INC., JULY 2000.



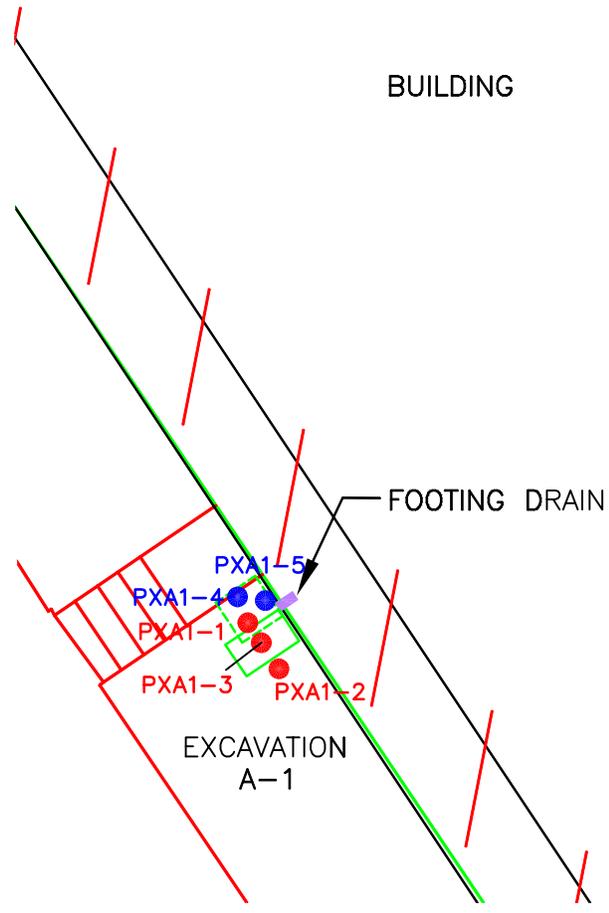
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**SOIL EXCAVATION LOCATION
"A"**



FIGURE
4

X: OFF = REF*
L: PAGESSET/PLT-AP
P: 10/29/03 CRA-85-TLF
05203008/05203G02.DWG

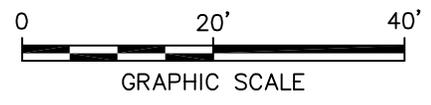


LEGEND

-  STAIRS
-  PHASE 1
-  PHASE 2
-  POST-EXCAVATION SOIL SAMPLING LOCATION

SOURCE:

ADAPTED FROM FIGURES FROM REMEDIAL INVESTIGATION REPORT, SHIELD ENVIRONMENTAL ASSOCIATES, INC., JULY 2000.



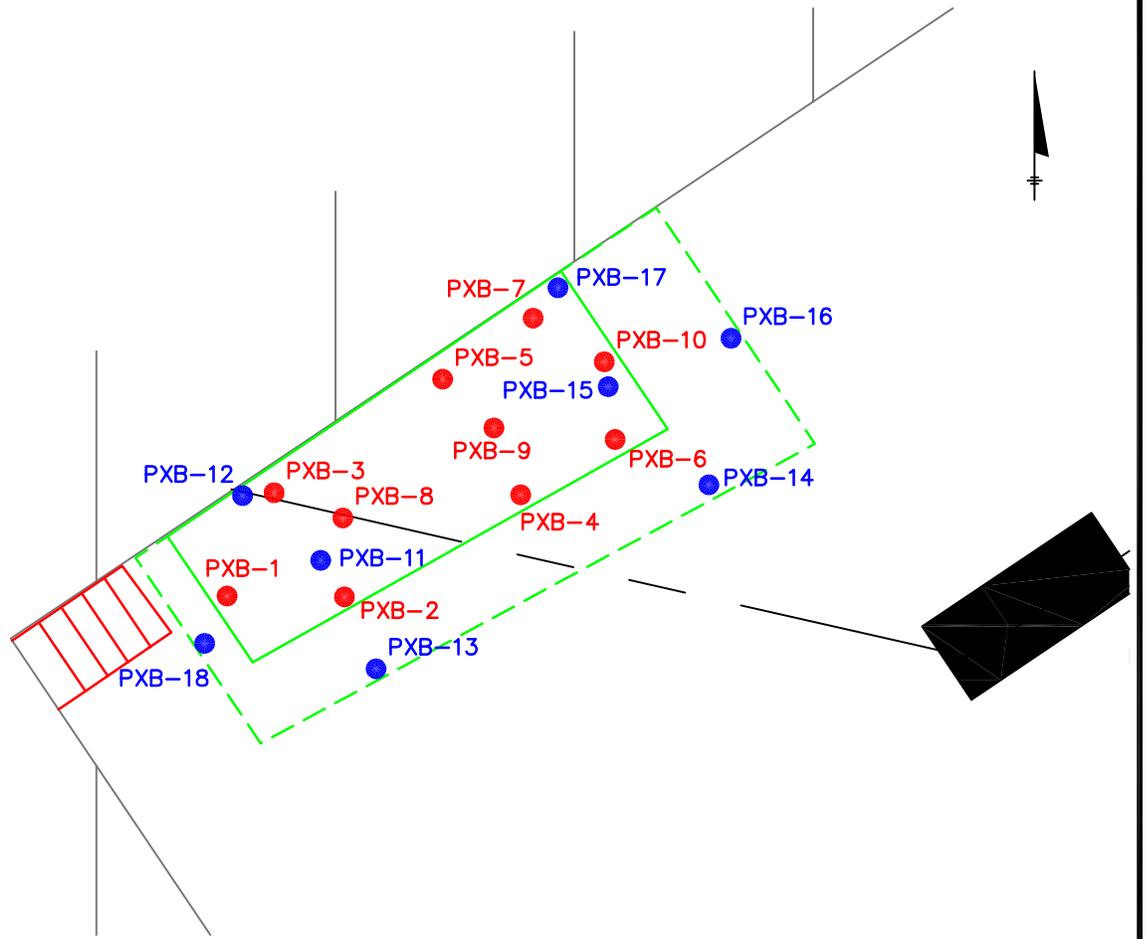
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**SOIL EXCAVATION LOCATION
"A-1"**



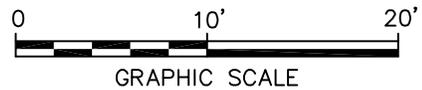
FIGURE
5

X: OFF = REF*
L: PACESET/PLT-AP
P: PACESET/PLT-AP
10/29/03 CRA-85-TLF
05203008/05203G03.DWG



LEGEND

-  STAIRS
-  PHASE 1
-  PHASE 2
-  POST-EXCAVATION SOIL SAMPLING LOCATION



SOURCE:

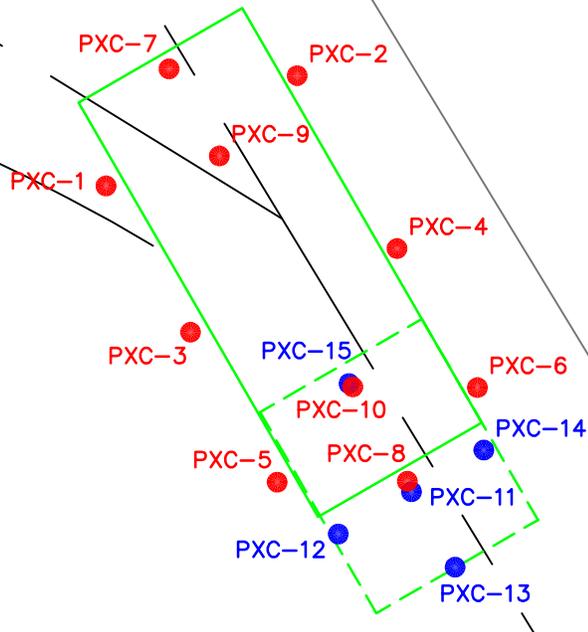
FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**SOIL EXCAVATION
LOCATION "B"**



FIGURE
6



LEGEND

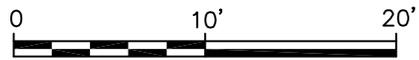


PHASE 1

PHASE 2



POST-EXCAVATION SOIL SAMPLING LOCATION



GRAPHIC SCALE

SOURCE:

FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

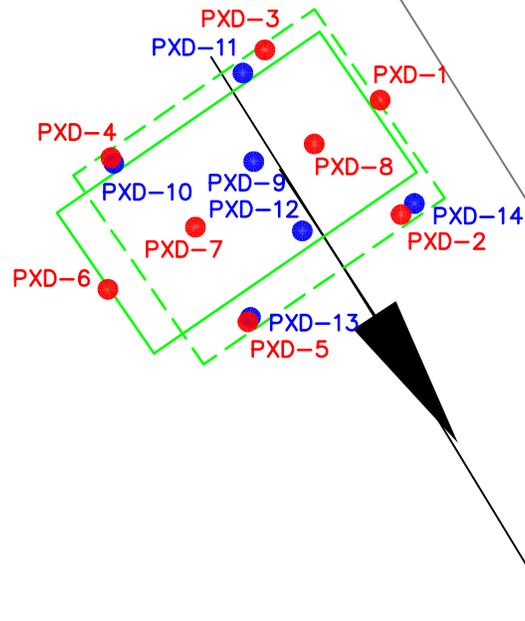
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**SOIL EXCAVATION
LOCATION "C"**



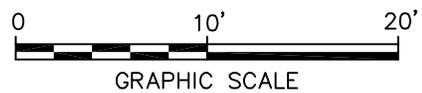
FIGURE

7



LEGEND

-  PHASE 1
-  PHASE 2
-  POST-EXCAVATION SOIL SAMPLING LOCATION



SOURCE:

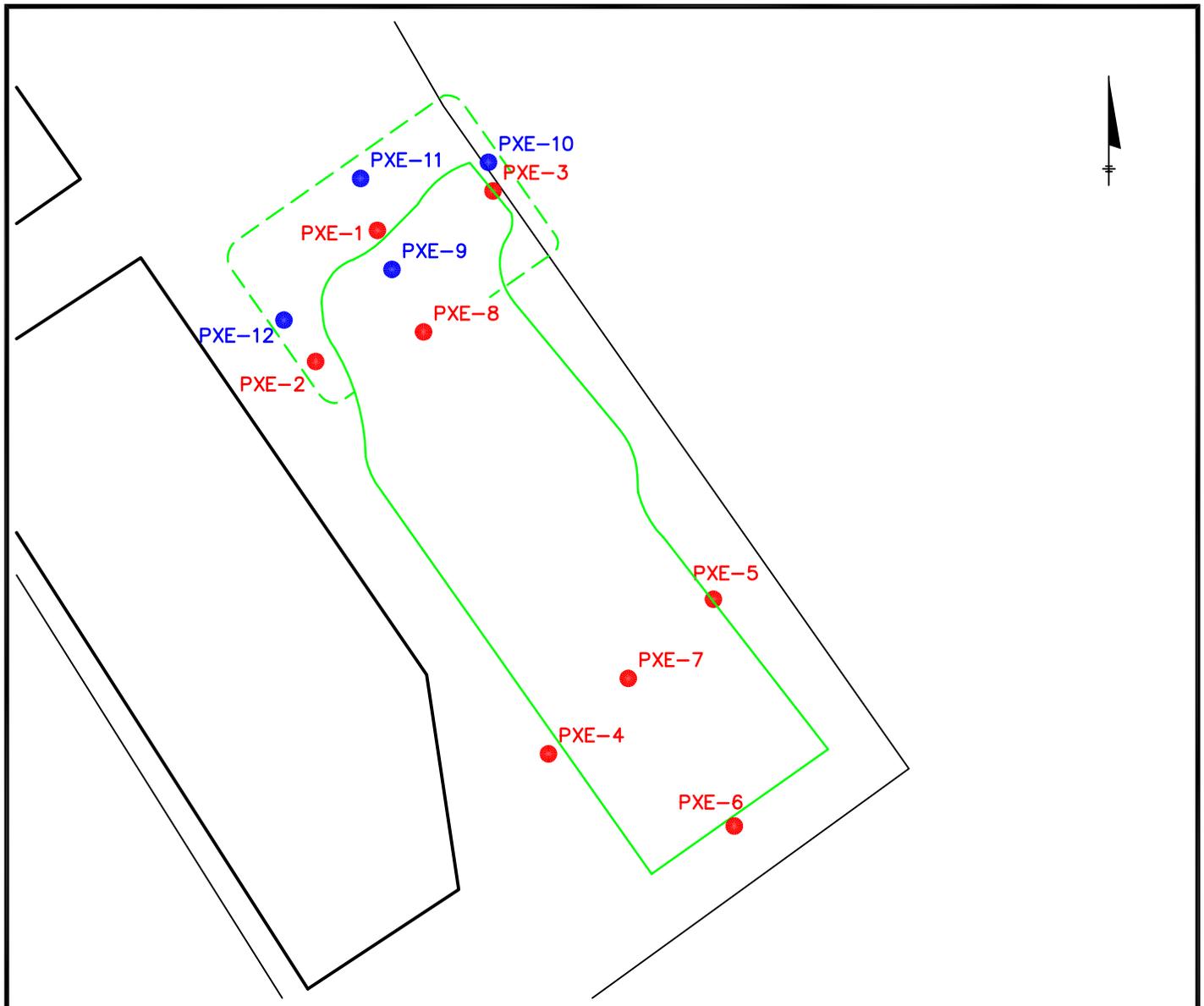
FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**SOIL EXCAVATION
LOCATION "D"**



FIGURE
8



LEGEND



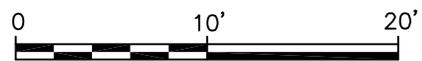
PHASE 1



PHASE 2



POST-EXCAVATION SOIL SAMPLING LOCATION



GRAPHIC SCALE

SOURCE:

FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**SOIL EXCAVATION
LOCATION "E"**

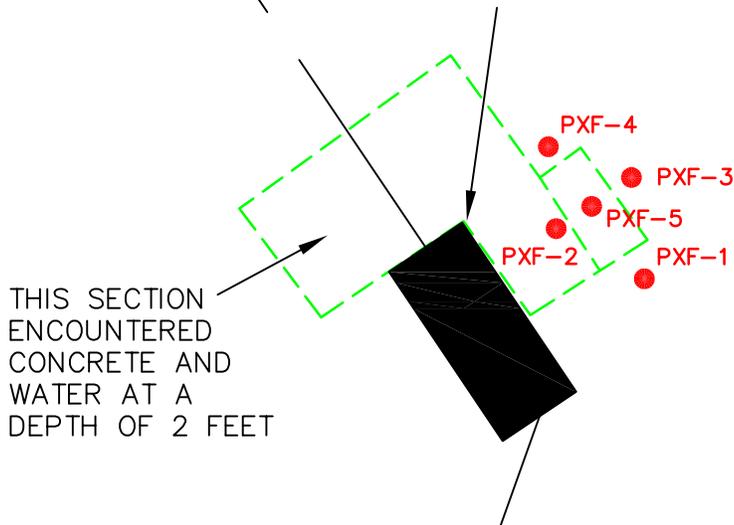


FIGURE

9



CB 2044
(NORTH CATCH BASIN)



THIS SECTION
ENCOUNTERED
CONCRETE AND
WATER AT A
DEPTH OF 2 FEET

LEGEND



PHASE 1

PHASE 2



POST-EXCAVATION SOIL
SAMPLING LOCATION



GRAPHIC SCALE

SOURCE:

FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

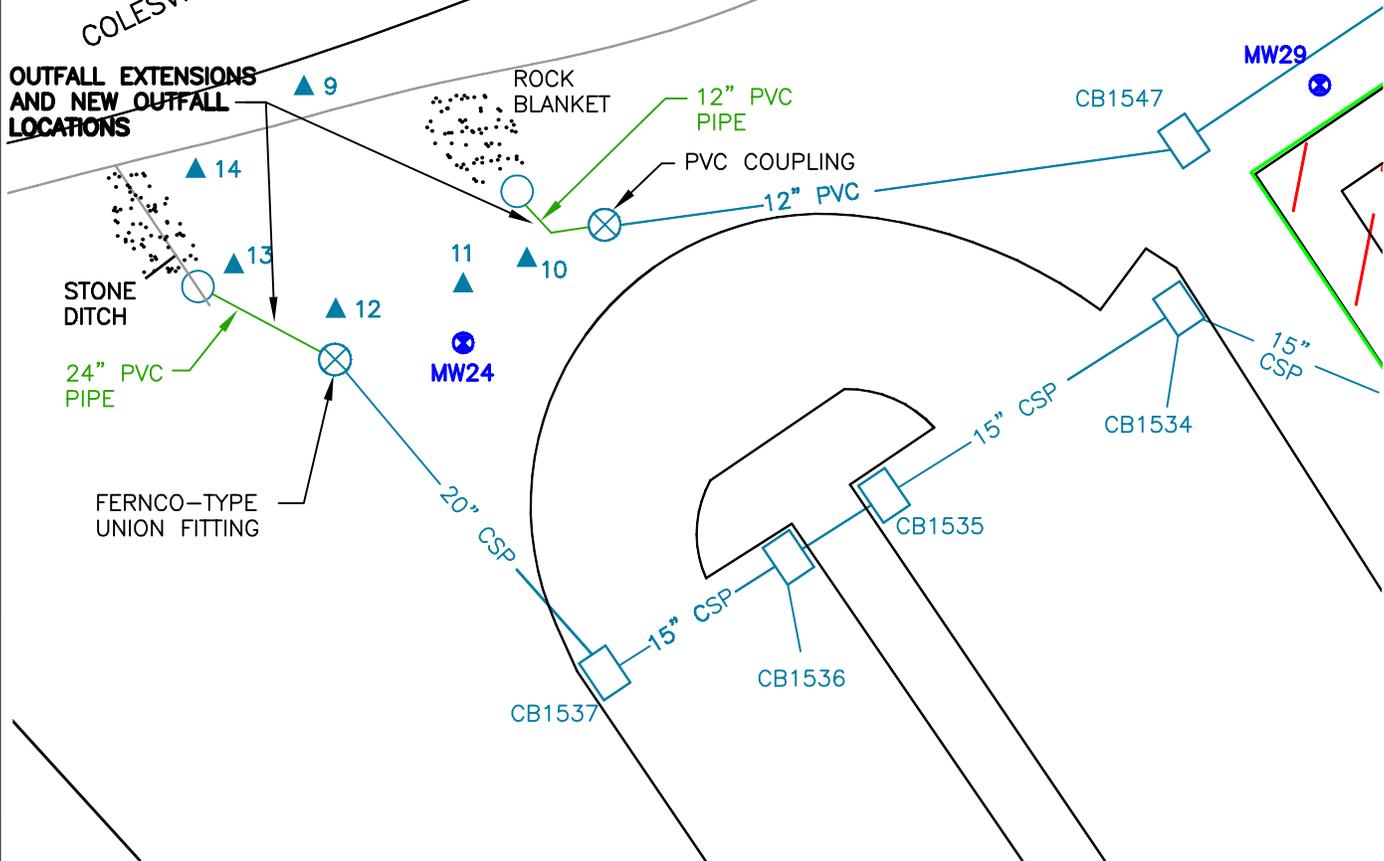
**SOIL EXCAVATION
LOCATION "F"**



FIGURE
10

COLESVILLE ROAD - COUNTY ROUTE 52

OUTFALL EXTENSIONS AND NEW OUTFALL LOCATIONS

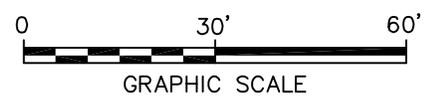


LEGEND

-  MONITORING WELL
-  SOIL BORING LOCATION
-  CATCH BASIN
-  OUTFALL

SOURCE:

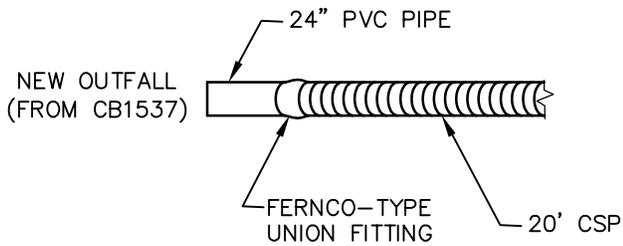
ADAPTED FROM FIGURES FROM REMEDIAL INVESTIGATION REPORT, SHIELD ENVIRONMENTAL ASSOCIATES, INC., JULY 2000.



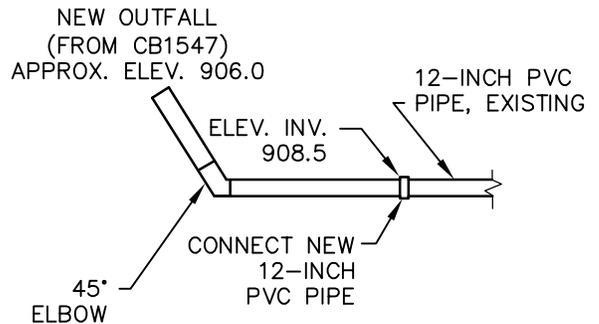
UNIVERSAL INSTRUMENTS CORPORATION KIRKWOOD, NEW YORK REMEDIAL CERTIFICATION REPORT
STORMWATER OUTFALL PIPE EXTENSION LOCATION

FIGURE 11

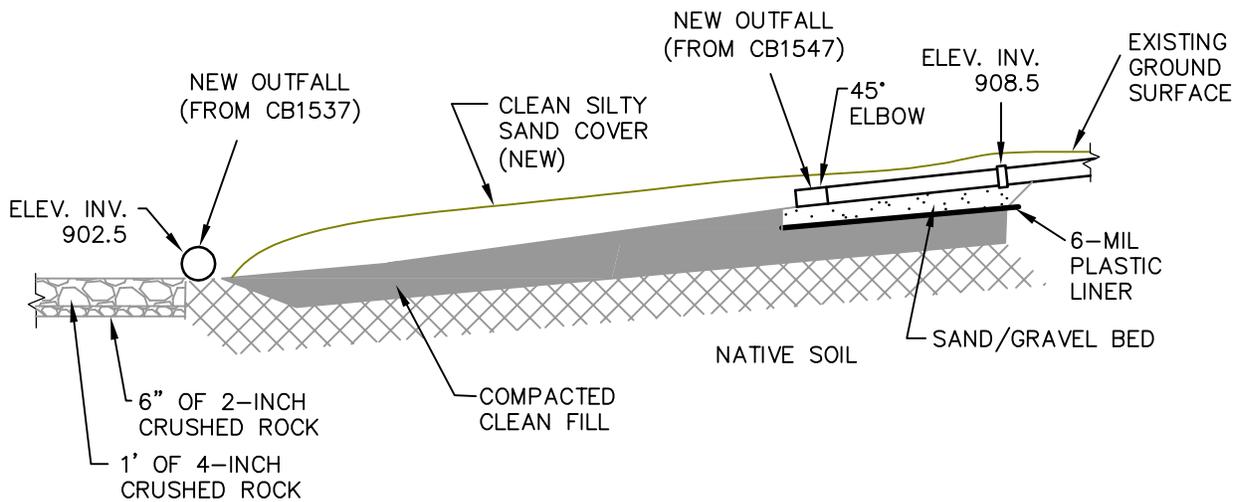
X: OFF = REF*
 L: PAGES/PLT-AP
 P: 10/31/03 CRA-85-TLF
 05203008/05203G04.DWG



PLAN VIEW



PLAN VIEW



CROSS-SECTION (LONG AXIS)

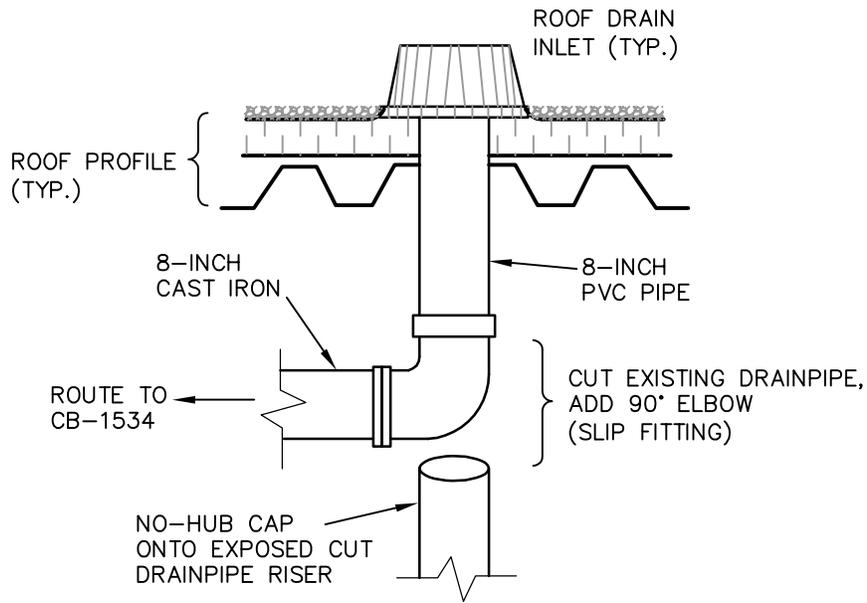
NOT TO SCALE

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

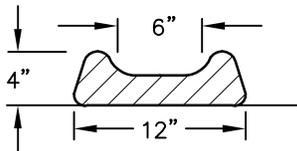
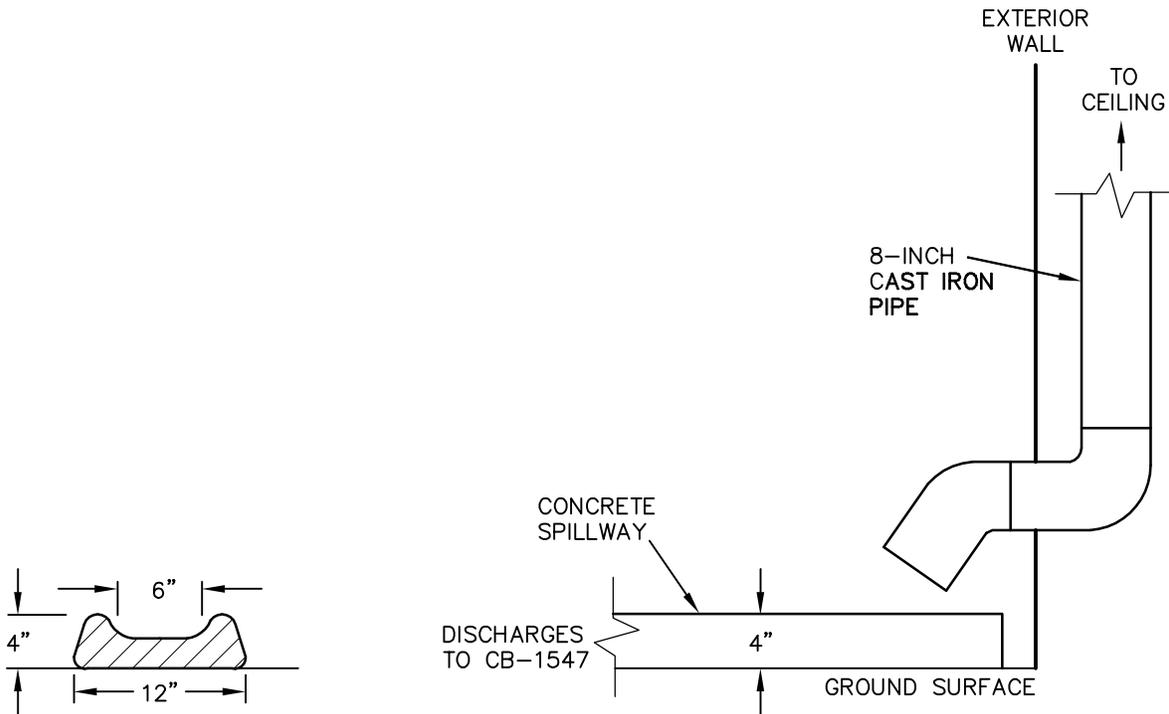
**STORMATER OUTFALL EXTENSION
DETAILS**



FIGURE
12



ROOF DRAIN



SPILLWAY CROSS-SECTION

NOT TO SCALE

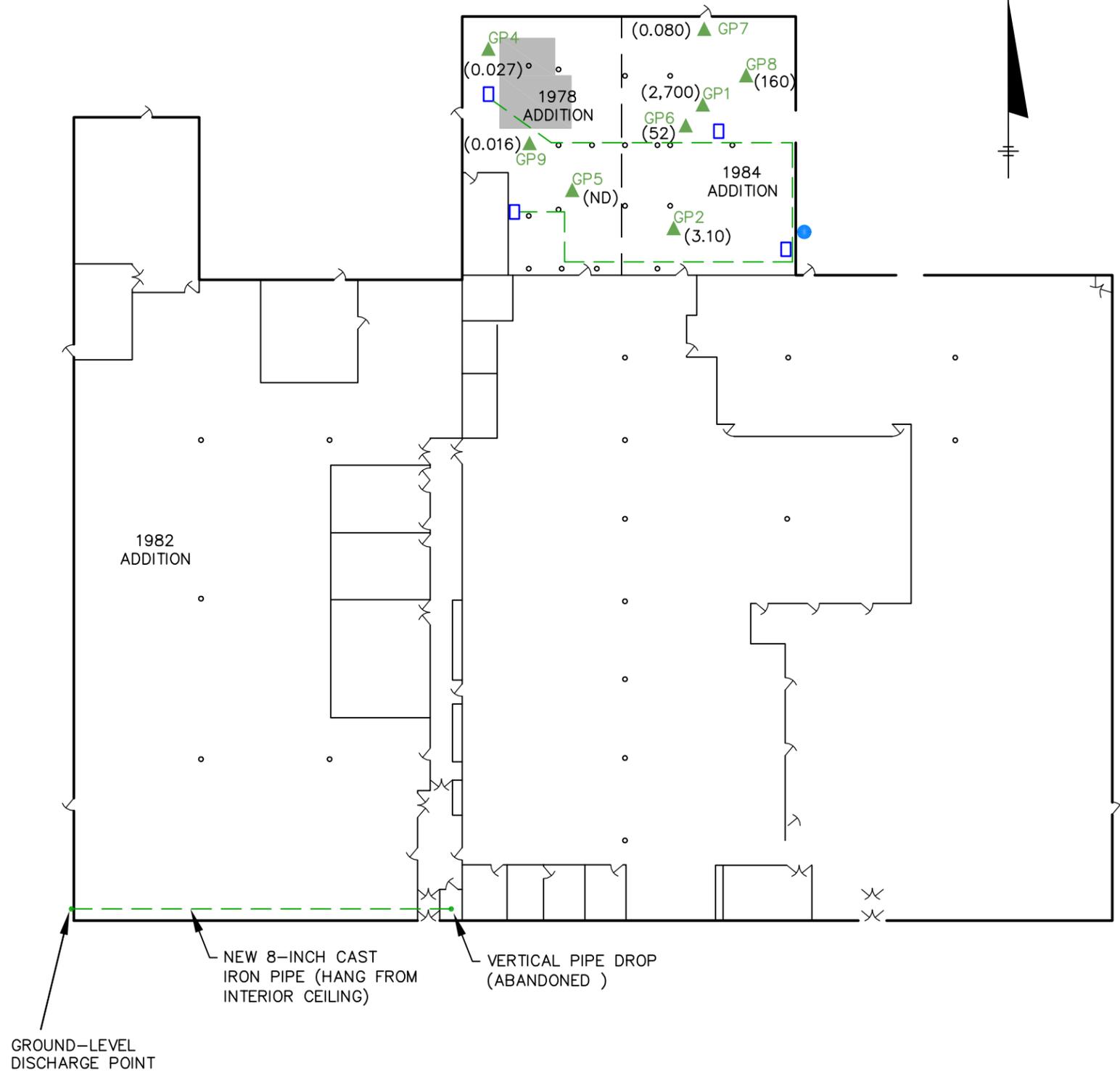
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

**ROOF DRAIN LEADER ABANDONMENT
AND DETAILS**



FIGURE
13

X: OFF=REF*
L: PAGESSET/PLT-AP
P: 10/31/03 CRA-85-TLF
05203008/05203M03.DWG



LEGEND:

- ACTIVE SUB-SLAB DEPRESSURIZATION POINT LOCATION
- PIPING RUN
- VERTICAL BUILDING POST
- EXTERIOR FAN AND EXHAUST LOCATION
- ▲ SOIL SAMPLE LOCATIONS
- (2,700) PCE CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg)
- INACCESSIBLE AREA

SOURCE:

BUILDING LAYOUT DIGITIZED FROM PHOTOCOPY OF DRAWING FAXED FROM UNIVERSAL INSTRUMENTS CORPORATION FACILITIES DEPARTMENT. NO FILE NAME OR SCALE PROVIDED.

UNIVERSAL INSTRUMENTS CORPORATION KIRKWOOD, NEW YORK	
REMEDIAL CERTIFICATION REPORT	
ASD EXTRACTION POINT AND ROOF LEADER RE-ROUTE LOCATIONS	
	FIGURE 14

X:
L: OFF-REF*
P: PAGESET/PLT-BL
10/31/03 CRA-85-TLF
05203008/05203006.DWG

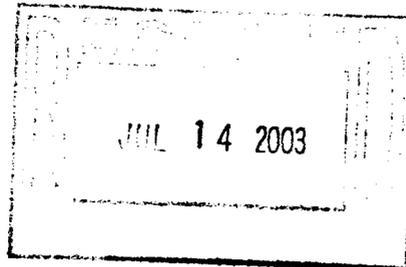
Appendices



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 1, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502



PROJECT:DOVER KIRKWOOD 05203
Submission #:R2317270

Dear Mr. Albright

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read "Mark Wilson".

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER KIRKWOOD 05203
Lab Submission # : R2317270
Project Manager : Mark Wilson
Reported : 07/01/03

Report Contains a total of 76 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317270

BBL samples were collected on 06/16/03 through 06/18/03 and received at CAS on 06/17/03 through 06/19/03 in good condition.

VOLATILE ORGANICS

Soil samples were analyzed for TCLP volatile organics by EPA Method 8260B from SW-846 following extraction by Method 1311.

All initial and continuing calibrations were compliant.

All blank spike recoveries were within QC limits except for 1,1-Dichloroethene in the LCS analyzed 06/19/03. The recovery was slightly above limits. This target compound was not detected in any associated samples. No further action was taken.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits except for sample CR2-(X)-S. This sample was reanalyzed to confirm this QC outlier.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.

Extractable Organics

Soil samples were analyzed for Total PCB's by EPA Method 8082 from SW-846 and TCLP list Semivolatiles by 8270C, Pesticides by 8081A and Herbicides by 8151A following extraction by Method 1311.

All initial and continuing calibrations were compliant.

All blank spike recoveries were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.

INORGANICS

Soil samples were analyzed for TCLP metals by EPA Method 6010B/7470A following extraction by Method 1311, Corrosivity by 9045, Cyanide Reactivity by Ch7/9012, Sulfide Reactivity by Ch7/9030 and Ignitability by 1010.

All initial and continuing calibrations were compliant.

All blank spike recoveries were within QC limits except for Selenium recovery in the ICSAB. No further action was taken.

No other analytical or QC problems were encountered with these analyses.



This report contains analytical results for the following samples:

Submission #: R2317270

<u>Lab ID</u>	<u>Client ID</u>
649467	STOCK PILE #1
649468	STOCK PILE #1
649824	STOCKPILE #2
649825	STOCKPILE #3
649826	STOCKPILE #2
649827	STOCKPILE #3
650210	STOCKPILE #4
650211	STOCKPILE #4



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited
 NELAP Accredited

New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER KIRKWOOD 05203
Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649467 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
CYANIDE REACTIVITY	9010/9	5.00	5.00 U	MG/KG	06/20/03	12:10	1.0
FLASH POINT	1010.M		>100	°C	06/17/03	10:00	1.0
PH	9040/9	1.00	7.22		06/18/03	17:30	1.0
SULFIDE REACTIVITY	9030	50.0	50.0 U	MG/KG	06/20/03	09:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER KIRKWOOD 05203
Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649467 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ARSENIC	6010B	0.500	0.500 U	MG/L	06/19/03	1.0
BARIUM	6010B	1.00	1.00 U	MG/L	06/19/03	1.0
CADMIUM	6010B	0.100	0.100 U	MG/L	06/19/03	1.0
CHROMIUM	6010B	0.100	0.100 U	MG/L	06/19/03	1.0
LEAD	6010B	0.100	0.100 U	MG/L	06/19/03	1.0
MERCURY	7470A	0.000300	0.00300 U	MG/L	06/23/03	10.0
SELENIUM	6010B	0.500	0.500 U	MG/L	06/19/03	1.0
SILVER	6010B	0.100	0.100 U	MG/L	06/19/03	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER KIRKWOOD 05203
Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649467 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270 Analytical Run 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/19/03		
ANALYTICAL DILUTION:	10.00		
BENZENE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(68 - 128 %)	100	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	97	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER KIRKWOOD 05203

Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649467 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270 Analytical Run 92241

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/18/03		
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	10.00		
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-D14	(19 - 145 %)	101	%
NITROBENZENE-D5	(18 - 130 %)	70	%
PHENOL-D6	(10 - 125 %)	31	%
2-FLUOROBIPHENYL	(23 - 130 %)	69	%
2-FLUOROPHENOL	(13 - 130 %)	44	%
2,4,6-TRIBROMOPHENOL	(23 - 131 %)	93	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER KIRKWOOD 05203
Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649467 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270 Analytical Run 92234

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/03		
DATE ANALYZED	: 06/22/03		
ANALYTICAL DILUTION:	10.00		
GAMMA-BHC (LINDANE)	0.50	5.0 U	UG/L
CHLORDANE	2.0	20 U	UG/L
ENDRIN	0.50	5.0 U	UG/L
HEPTACHLOR	0.50	5.0 U	UG/L
HEPTACHLOR EPOXIDE	0.50	5.0 U	UG/L
METHOXYCHLOR	2.0	20 U	UG/L
TOXAPHENE	10	100 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(25 - 154 %)	122	%
TETRACHLORO-META-XYLENE (TCMX)	(28 - 138 %)	71	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8151A TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER KIRKWOOD 05203

Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649467 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270 Analytical Run 92281

ANALYTE	PQL	RESULT	UNITS
---------	-----	--------	-------

DATE EXTRACTED : 06/19/03
DATE ANALYZED : 06/23/03
ANALYTICAL DILUTION: 10.00

2,4-D	5.0	50 U	UG/L
2,4,5-TP (SILVEX)	5.0	50 U	UG/L

SURROGATE RECOVERIES QC LIMITS

DCAA	(39 - 194 %)	77	%
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Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER KIRKWOOD 05203
Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03	Order #: 649468	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03	Submission #: R2317270	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	82.5	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER KIRKWOOD 05203

Client Sample ID : STOCK PILE #1

Date Sampled : 06/16/03 Order #: 649468 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317270 Percent Solid: 82.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/03		
DATE ANALYZED	: 06/21/03		
ANALYTICAL DILUTION:	1.00		Dry Weight
PCB 1016	33	40 U	UG/KG
PCB 1221	33	40 U	UG/KG
PCB 1232	33	40 U	UG/KG
PCB 1242	33	40 U	UG/KG
PCB 1248	33	40 U	UG/KG
PCB 1254	33	40 U	UG/KG
PCB 1260	33	40 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(37 - 156 %)	94	%
TETRACHLORO-META-XYLENE	(45 - 133 %)	55	%

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649824 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
CYANIDE REACTIVITY	9010/9	5.00	5.00 U	MG/KG	06/20/03	12:10	1.0
FLASH POINT	1010.M		>100	°C	06/19/03	15:00	1.0
PH	9040/9	1.00	7.83		06/18/03	17:30	1.0
SULFIDE REACTIVITY	9030	50.0	50.0 U	MG/KG	06/20/03	09:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649824 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ARSENIC	6010B	0.500	0.500 U	MG/L	06/24/03	1.0
BARIUM	6010B	1.00	1.00 U	MG/L	06/24/03	1.0
CADMIUM	6010B	0.100	0.100 U	MG/L	06/24/03	1.0
CHROMIUM	6010B	0.100	0.100 U	MG/L	06/24/03	1.0
LEAD	6010B	0.100	0.100 U	MG/L	06/24/03	1.0
MERCURY	7470A	0.000300	0.00300 U	MG/L	06/23/03	10.0
SELENIUM	6010B	0.500	0.500 U	MG/L	06/24/03	1.0
SILVER	6010B	0.100	0.100 U	MG/L	06/25/03	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649824 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/19/03		
ANALYTICAL DILUTION:	10.00		
BENZENE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	370	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	99	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER-KIRKWOOD 05203

Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649824 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92240

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/20/03		
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	10.00		
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
TERPHENYL-D14	(19 - 145 %)	105	%
NITROBENZENE-D5	(18 - 130 %)	72	%
PHENOL-D6	(10 - 125 %)	34	%
2-FLUOROBIPHENYL	(23 - 130 %)	75	%
2-FLUOROPHENOL	(13 - 130 %)	48	%
2,4,6-TRIBROMOPHENOL	(23 - 131 %)	97	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649824 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92234

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/03		
DATE ANALYZED	: 06/22/03		
ANALYTICAL DILUTION:	10.00		
GAMMA-BHC (LINDANE)	0.50	5.0 U	UG/L
CHLORDANE	2.0	20 U	UG/L
ENDRIN	0.50	5.0 U	UG/L
HEPTACHLOR	0.50	5.0 U	UG/L
HEPTACHLOR EPOXIDE	0.50	5.0 U	UG/L
METHOXYCHLOR	2.0	20 U	UG/L
TOXAPHENE	10	100 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(25 - 154 %)	119	%
TETRACHLORO-META-XYLENE (TCMX)	(28 - 138 %)	83	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8151A TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER-KIRKWOOD 05203

Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649824 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92281

ANALYTE	PQL	RESULT	UNITS
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DATE EXTRACTED : 06/19/03
DATE ANALYZED : 06/23/03
ANALYTICAL DILUTION: 10.00

2,4-D	5.0	50 U	UG/L
2,4,5-TP (SILVEX)	5.0	50 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DCAA	(39 - 194 %)	39	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649825 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
CYANIDE REACTIVITY	9010/9	5.00	5.00 U	MG/KG	06/20/03	12:10	1.0
FLASH POINT	1010.M		>100	°C	06/24/03	12:15	1.0
PH	9040/9	1.00	7.96		06/18/03	17:30	1.0
SULFIDE REACTIVITY	9030	50.0	50.0 U	MG/KG	06/20/03	09:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03
Date Received: 06/18/03

Order #: 649825
Submission #: R2317270

Sample Matrix: SOIL/SEDIMENT

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ARSENIC	6010B	0.500	0.500 U	MG/L	06/24/03	1.0
BARIUM	6010B	1.00	1.00 U	MG/L	06/24/03	1.0
CADMIUM	6010B	0.100	0.100 U	MG/L	06/24/03	1.0
CHROMIUM	6010B	0.100	0.100 U	MG/L	06/24/03	1.0
LEAD	6010B	0.100	0.100 U	MG/L	06/24/03	1.0
MERCURY	7470A	0.000300	0.00300 U	MG/L	06/23/03	10.0
SELENIUM	6010B	0.500	0.500 U	MG/L	06/24/03	1.0
SILVER	6010B	0.100	0.100 U	MG/L	06/25/03	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649825 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/19/03		
ANALYTICAL DILUTION:	10.00		
BENZENE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	1900	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(68 - 128 %)	100	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	96	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 **Order #:** 649825 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/18/03 **Submission #:** R2317270 **Analytical Run** 92240

ANALYTE	PQL	RESULT	UNITS
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DATE EXTRACTED : 06/20/03
DATE ANALYZED : 06/20/03
ANALYTICAL DILUTION: 10.00

1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-D14	(19 - 145 %)	97	%
NITROBENZENE-D5	(18 - 130 %)	70	%
PHENOL-D6	(10 - 125 %)	33	%
2-FLUOROBIPHENYL	(23 - 130 %)	72	%
2-FLUOROPHENOL	(13 - 130 %)	46	%
2,4,6-TRIBROMOPHENOL	(23 - 131 %)	89	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER-KIRKWOOD 05203

Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649825 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92234

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/03		
DATE ANALYZED	: 06/22/03		
ANALYTICAL DILUTION:	10.00		
GAMMA-BHC (LINDANE)	0.50	5.0 U	UG/L
CHLORDANE	2.0	20 U	UG/L
ENDRIN	0.50	5.0 U	UG/L
HEPTACHLOR	0.50	5.0 U	UG/L
HEPTACHLOR EPOXIDE	0.50	5.0 U	UG/L
METHOXYCHLOR	2.0	20 U	UG/L
TOXAPHENE	10	100 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL (DCB)	(25 - 154 %)	117	%
TETRACHLORO-META-XYLENE (TCMX)	(28 - 138 %)	79	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8151A TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649825 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Analytical Run 92281

ANALYTE	PQL	RESULT	UNITS
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DATE EXTRACTED : 06/19/03
DATE ANALYZED : 06/23/03
ANALYTICAL DILUTION: 10.00

2,4-D	5.0	50 U	UG/L
2,4,5-TP (SILVEX)	5.0	50 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>
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DCAA	(39 - 194 %)	46	%
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Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03	Order #: 649826	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03	Submission #: R2317270	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.9	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #2

Date Sampled : 06/17/03 Order #: 649826 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Percent Solid: 90.9

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/03		
DATE ANALYZED	: 06/21/03		
ANALYTICAL DILUTION:	1.00		Dry Weight
PCB 1016	33	36 U	UG/KG
PCB 1221	33	36 U	UG/KG
PCB 1232	33	36 U	UG/KG
PCB 1242	33	36 U	UG/KG
PCB 1248	33	36 U	UG/KG
PCB 1254	33	36 U	UG/KG
PCB 1260	33	36 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL	(37 - 156 %)	76	%
TETRACHLORO-META-XYLENE	(45 - 133 %)	67	%

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03	Order #: 649827	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03	Submission #: R2317270	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.8	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649827 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Percent Solid: 89.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	125.00		Dry Weight
1,1-DICHLOROETHANE	5.0	700 U	UG/KG
1,1-DICHLOROETHENE	5.0	700 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	700 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	700 U	UG/KG
TETRACHLOROETHENE	5.0	29000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	700 U	UG/KG
TRICHLOROETHENE	5.0	700 U	UG/KG
VINYL CHLORIDE	5.0	700 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	%
TOLUENE-D8	(83 - 117 %)	113	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649827 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Percent Solid: 89.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	250.00		Dry Weight
1,1-DICHLOROETHANE	5.0	1400 U	UG/KG
1,1-DICHLOROETHENE	5.0	1400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	1400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	1400 U	UG/KG
TETRACHLOROETHENE	5.0	28000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	1400 U	UG/KG
TRICHLOROETHENE	5.0	1400 U	UG/KG
VINYL CHLORIDE	5.0	1400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	120	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #3

Date Sampled : 06/17/03 Order #: 649827 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317270 Percent Solid: 89.8

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/19/03			
DATE ANALYZED : 06/21/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	37 U	UG/KG
PCB 1221	33	37 U	UG/KG
PCB 1232	33	37 U	UG/KG
PCB 1242	33	37 U	UG/KG
PCB 1248	33	37 U	UG/KG
PCB 1254	33	37 U	UG/KG
PCB 1260	33	37 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL	(37 - 156 %)	94	%
TETRACHLORO-META-XYLENE	(45 - 133 %)	92	%

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650210 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
CYANIDE REACTIVITY	9010/9	5.00	5.00 U	MG/KG	06/20/03	12:10	1.0
FLASH POINT	1010.M		>100	°C	06/19/03	15:00	1.0
PH	9040/9	1.00	9.68		06/19/03	16:20	1.0
SULFIDE REACTIVITY	9030	50.0	50.0 U	MG/KG	06/20/03	09:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03
Date Received: 06/19/03

Order #: 650210
Submission #: R2317270

Sample Matrix: SOIL/SEDIMENT

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ARSENIC	6010B	0.500	0.500 U	MG/L	06/25/03	1.0
BARIUM	6010B	1.00	1.00 U	MG/L	06/25/03	1.0
CADMIUM	6010B	0.100	0.100 U	MG/L	06/25/03	1.0
CHROMIUM	6010B	0.100	0.100 U	MG/L	06/25/03	1.0
LEAD	6010B	0.100	0.100 U	MG/L	06/25/03	1.0
MERCURY	7470A	0.000300	0.00300 U	MG/L	06/25/03	10.0
SELENIUM	6010B	0.500	0.500 U	MG/L	06/25/03	1.0
SILVER	6010B	0.100	0.100 U	MG/L	06/25/03	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/10/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650210 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Analytical Run 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	10.00		
BENZENE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	19000 E	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(68 - 128 %)	104	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	102	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/10/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650210 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Analytical Run 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/07/03		
ANALYTICAL DILUTION:	250.00		
BENZENE	5.0	1300 U	UG/L
2-BUTANONE (MEK)	10	2500 U	UG/L
CARBON TETRACHLORIDE	5.0	1300 U	UG/L
CHLOROBENZENE	5.0	1300 U	UG/L
CHLOROFORM	5.0	1300 U	UG/L
1,2-DICHLOROETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHENE	5.0	1300 U	UG/L
TETRACHLOROETHENE	5.0	26000	UG/L
TRICHLOROETHENE	5.0	1300 U	UG/L
VINYL CHLORIDE	5.0	1300 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER-KIRKWOOD 05203

Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650210 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Analytical Run 92340

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/24/03		
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	10.00		
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-D14	(19 - 145 %)	91	%
NITROBENZENE-D5	(18 - 130 %)	78	%
PHENOL-D6	(10 - 125 %)	33	%
2-FLUOROBIPHENYL	(23 - 130 %)	76	%
2-FLUOROPHENOL	(13 - 130 %)	49	%
2,4,6-TRIBROMOPHENOL	(23 - 131 %)	98	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A TCLP

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER-KIRKWOOD 05203

Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650210 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Analytical Run 92321

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/24/03		
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	10.00		
GAMMA-BHC (LINDANE)	0.50	5.0 U	UG/L
CHLORDANE	2.0	20 U	UG/L
ENDRIN	0.50	5.0 U	UG/L
HEPTACHLOR	0.50	5.0 U	UG/L
HEPTACHLOR EPOXIDE	0.50	5.0 U	UG/L
METHOXYCHLOR	2.0	20 U	UG/L
TOXAPHENE	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(25 - 154 %)	105	%
TETRACHLORO-META-XYLENE (TCMX)	(28 - 138 %)	79	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8151A TCLP
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650210 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Analytical Run 92371

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED			
DATE ANALYZED			
ANALYTICAL DILUTION:			
2,4-D	5.0	50 U	UG/L
2,4,5-TP (SILVEX)	5.0	50 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DCAA (39 - 194 %) 75 %

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03	Order #: 650211	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03	Submission #: R2317270	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	83.6	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650211 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Percent Solid: 83.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED		: 06/25/03	
ANALYTICAL DILUTION:	125.00		Dry Weight
1,1-DICHLOROETHANE	5.0	750 U	UG/KG
1,1-DICHLOROETHENE	5.0	750 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	750 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	750 U	UG/KG
TETRACHLOROETHENE	5.0	430000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	750 U	UG/KG
TRICHLOROETHENE	5.0	750 U	UG/KG
VINYL CHLORIDE	5.0	750 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	121	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 Order #: 650211 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317270 Percent Solid: 83.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
ANALYTICAL DILUTION: 5000.00			Dry Weight
1,1-DICHLOROETHANE	5.0	30000 U	UG/KG
1,1-DICHLOROETHENE	5.0	30000 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	30000 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	30000 U	UG/KG
TETRACHLOROETHENE	5.0	800000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	30000 U	UG/KG
TRICHLOROETHENE	5.0	30000 U	UG/KG
VINYL CHLORIDE	5.0	30000 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	103	%
TOLUENE-D8	(83 - 117 %)	104	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	105	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 07/01/03

Blasland, Bouck, & Lee, Inc.

Project Reference: DOVER-KIRKWOOD 05203

Client Sample ID : STOCKPILE #4

Date Sampled : 06/18/03 **Order #:** 650211 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/19/03 **Submission #:** R2317270 **Percent Solid:** 83.6

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/23/03		
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	1.00		Dry Weight
PCB 1016	33	39 U	UG/KG
PCB 1221	33	39 U	UG/KG
PCB 1232	33	39 U	UG/KG
PCB 1242	33	39 U	UG/KG
PCB 1248	33	39 U	UG/KG
PCB 1254	33	39 U	UG/KG
PCB 1260	33	39 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL	(37 - 156 %)	91	%
TETRACHLORO-META-XYLENE	(45 - 133 %)	87	%

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2317270
Client: Blasland, Bouck, & Lee, Inc.
DOVER KIRKWOOD 05203

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS	
ARSENIC	0.500 U	5.20	5.00	104	80 - 120	92246	MG/L
BARIUM	1.00 U	5.34	5.00	107	80 - 120	92246	MG/L
CADMIUM	0.100 U	1.01	1.00	101	80 - 120	92246	MG/L
CHROMIUM	0.100 U	5.17	5.00	103	80 - 120	92246	MG/L
LEAD	0.100 U	5.78	5.00	116	80 - 120	92246	MG/L
SELENIUM	0.500 U	1.01	1.00	101	80 - 120	92246	MG/L
SILVER	0.100 U	5.09	5.00	102	80 - 120	92246	MG/L
MERCURY	0.000300 U	0.0100	0.0100	100	80 - 120	92282	MG/L
ARSENIC	0.500 U	5.18	5.00	104	80 - 120	92331	MG/L
BARIUM	1.00 U	5.35	5.00	107	80 - 120	92331	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2317270
Client: Blasland, Bouck, & Lee, Inc.
DOVER-KIRKWOOD 05203

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
CADMIUM	0.100 U	1.00	107	80 - 120	92331	MG/L
CHROMIUM	0.100 U	5.00	102	80 - 120	92331	MG/L
LEAD	0.100 U	5.00	108	80 - 120	92331	MG/L
SELENIUM	0.500 U	1.00	97	80 - 120	92331	MG/L
MERCURY	0.000300 U	0.0100	98	80 - 120	92389	MG/L
ARSENIC	0.500 U	5.00	99	80 - 120	92394	MG/L
BARIUM	1.00 U	5.00	106	80 - 120	92394	MG/L
CADMIUM	0.100 U	1.00	107	80 - 120	92394	MG/L
CHROMIUM	0.100 U	5.00	102	80 - 120	92394	MG/L
LEAD	0.100 U	5.00	107	80 - 120	92394	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2317270
Client: Blasland, Bouck, & Lee, Inc.
DOVER-KIRKWOOD 05203

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
0.500 U	0.974	1.00	97	80 - 120	92394	MG/L
0.100 U	5.03	5.00	101	80 - 120	92394	MG/L

SELENIUM

SILVER

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2317270
Client: Blasland, Bouck, & Lee, Inc.
DOVER-KIRKWOOD 05203

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
5.00 U	2.51	49.2	5	0 - 23	92217	MG/KG
50.0 U	172	105	164	42 - 213	92218	MG/KG

CYANIDE REACTIVITY

SULFIDE REACTIVITY

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCLP

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650907 ANALYTICAL RUN #: 92285

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/19/2003		
ANALYTICAL DILUTION:	1.0		
BENZENE	20.0	113	70 - 130
2-BUTANONE (MEK)	20.0	108	50 - 150
CARBON TETRACHLORIDE	20.0	117	70 - 130
CHLOROBENZENE	20.0	108	70 - 130
CHLOROFORM	20.0	110	70 - 130
1,2-DICHLOROETHANE	20.0	103	70 - 130
1,1-DICHLOROETHENE	20.0	132 *	70 - 130
TETRACHLOROETHENE	20.0	114	70 - 130
TRICHLOROETHENE	20.0	129	70 - 130
VINYL CHLORIDE	20.0	115	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCLP

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 651494 ANALYTICAL RUN #: 92285

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/24/2003		
ANALYTICAL DILUTION:	1.0		
BENZENE	20.0	108	70 - 130
2-BUTANONE (MEK)	20.0	90	50 - 150
CARBON TETRACHLORIDE	20.0	122	70 - 130
CHLOROBENZENE	20.0	103	70 - 130
CHLOROFORM	20.0	105	70 - 130
1,2-DICHLOROETHANE	20.0	103	70 - 130
1,1-DICHLOROETHENE	20.0	114	70 - 130
TETRACHLOROETHENE	20.0	110	70 - 130
TRICHLOROETHENE	20.0	104	70 - 130
VINYL CHLORIDE	20.0	117	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCLP

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 655126 ANALYTICAL RUN #: 92285

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/07/2003		
ANALYTICAL DILUTION:	1.0		
BENZENE	20.0	95	70 - 130
2-BUTANONE (MEK)	20.0	83	50 - 150
CARBON TETRACHLORIDE	20.0	97	70 - 130
CHLOROBENZENE	20.0	94	70 - 130
CHLOROFORM	20.0	95	70 - 130
1,2-DICHLOROETHANE	20.0	78	70 - 130
1,1-DICHLOROETHENE	20.0	99	70 - 130
TETRACHLOROETHENE	20.0	97	70 - 130
TRICHLOROETHENE	20.0	100	70 - 130
VINYL CHLORIDE	20.0	101	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCLP
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650906 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/19/03			
ANALYTICAL DILUTION: 1.00			
BENZENE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

BROMOFLUOROBENZENE	(68 - 128 %)	96	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	98	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 652544 ANALYTICAL RUN # : 92493

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/25/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	110	70 - 130
1,1-DICHLOROETHENE	20.0	119	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	104	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	110	70 - 130
TETRACHLOROETHENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	123	70 - 130
TRICHLOROETHENE	20.0	108	70 - 130
VINYL CHLORIDE	20.0	128	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 652548 ANALYTICAL RUN #: 92493

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/26/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	91	70 - 130
1,1-DICHLOROETHENE	20.0	96	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	91	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	95	70 - 130
TETRACHLOROETHENE	20.0	111	70 - 130
1,1,1-TRICHLOROETHANE	20.0	102	70 - 130
TRICHLOROETHENE	20.0	96	70 - 130
VINYL CHLORIDE	20.0	102	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 652543 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			
ANALYTICAL DILUTION: 125.00			Dry Weight
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	110	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	120	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 650696

Client ID:

Test: 8270C TCLP

Analytical Units: UG/L

Run Number : 92241

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		QC LIMITS
			FOUND	% REC.	REC.
1,4-DICHLOROBENZENE	1000	0	410	41	31 - 130
2,4-DINITROTOLUENE	1000	0	880	88	45 - 135
HEXACHLOROBENZENE	1000	0	860	86	56 - 130
HEXACHLOROBUTADIENE	1000	0	390	39	26 - 106
HEXACHLOROETHANE	1000	0	340	34	20 - 100
2-METHYLPHENOL	1000	0	670	67	41 - 130
3+4-METHYLPHENOL	2000	0	1200	60	45 - 135
NITROBENZENE	1000	0	660	66	46 - 102
PENTACHLOROPHENOL	1000	0	730	73	27 - 130
2,4,6-TRICHLOROPHENOL	1000	0	794	79	48 - 111
2,4,5-TRICHLOROPHENOL	1000	0	770	77	50 - 114

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C TCLP
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650695 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 92241

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/18/03			
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 10.00			
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-D14	(19 - 145 %)	104	%
NITROBENZENE-D5	(18 - 130 %)	74	%
PHENOL-D6	(10 - 125 %)	36	%
2-FLUOROBIPHENYL	(23 - 130 %)	70	%
2-FLUOROPHENOL	(13 - 130 %)	51	%
2,4,6-TRIBROMOPHENOL	(23 - 131 %)	86	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C TCLP
 Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 651398 **Sample Matrix:** SOIL/SEDIMENT
Date Received: Submission #: **Analytical Run** 92340

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/24/03			
DATE ANALYZED : 06/24/03			
ANALYTICAL DILUTION: 10.00			
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-D14	(19 - 145 %)	96	%
NITROBENZENE-D5	(18 - 130 %)	86	%
PHENOL-D6	(10 - 125 %)	37	%
2-FLUOROBIPHENYL	(23 - 130 %)	82	%
2-FLUOROPHENOL	(13 - 130 %)	54	%
2,4,6-TRIBROMOPHENOL	(23 - 131 %)	104	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
 Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 650650

Client ID:

Test: 8081A TCLP

Analytical Units: UG/L

Run Number : 92234

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		QC LIMITS
			FOUND	% REC.	REC.
GAMMA-BHC (LINDANE)	20.0	0	20.0	100	59 - 111
ENDRIN	20.0	0	23.0	115	30 - 128
HEPTACHLOR	20.0	0	18.0	90	36 - 115
HEPTACHLOR EPOXIDE	20.0	0	19.0	95	72 - 106
METHOXYCHLOR	200	0	230	115	55 - 124

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A TCLP
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650649 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 92234

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 06/19/03			
DATE ANALYZED : 06/22/03			
ANALYTICAL DILUTION: 10.00			
GAMMA-BHC (LINDANE)	0.50	5.0 U	UG/L
CHLORDANE	2.0	20 U	UG/L
ENDRIN	0.50	5.0 U	UG/L
HEPTACHLOR	0.50	5.0 U	UG/L
HEPTACHLOR EPOXIDE	0.50	5.0 U	UG/L
METHOXYCHLOR	2.0	20 U	UG/L
TOXAPHENE	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIIPHENYL (DCB)	(25 - 154 %)	115	%
TETRACHLORO-META-XYLENE (TCMX)	(28 - 138 %)	69	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8151A TCLP
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 651514 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Analytical Run 92371

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED			
DATE ANALYZED			
ANALYTICAL DILUTION:			
2,4-D	5.0	50 U	UG/L
2,4,5-TP (SILVEX)	5.0	50 U	UG/L
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DCAA	(39 - 194 %)	89	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8081A TCLP

Reported: 07/10/03

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 651209	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Analytical Run 92321

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/24/03		
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	10.00		
GAMMA-BHC (LINDANE)	0.50	5.0 U	UG/L
CHLORDANE	2.0	20 U	UG/L
ENDRIN	0.50	5.0 U	UG/L
HEPTACHLOR	0.50	5.0 U	UG/L
HEPTACHLOR EPOXIDE	0.50	5.0 U	UG/L
METHOXYCHLOR	2.0	20 U	UG/L
TOXAPHENE	10	100 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

DECACHLOROBIPHENYL (DCB)	(25 - 154 %)	100	%
TETRACHLORO-META-XYLENE (TCMX)	(28 - 138 %)	74	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 650872

Client ID:

Test: 8151A TCLP

Analytical Units: UG/L

Run Number : 92281

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		QC LIMITS
			FOUND	% REC.	REC.
2,4-D	100	0	110	110	40 - 120
2,4,5-TP (SILVEX)	100	0	90.0	90	52 - 117

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 07/10/03

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 650637	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

<u>ANALYTE</u>	<u>PQL</u>	<u>RESULT</u>	<u>UNITS</u>
DATE EXTRACTED : 06/18/03			
DATE ANALYZED : 06/21/03			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	33 U	UG/KG
PCB 1221	33	33 U	UG/KG
PCB 1232	33	33 U	UG/KG
PCB 1242	33	33 U	UG/KG
PCB 1248	33	33 U	UG/KG
PCB 1254	33	33 U	UG/KG
PCB 1260	33	33 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(37 - 156 %)	93	%
TETRACHLORO-META-XYLENE	(45 - 133 %)	59	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 07/10/03

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 650640	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 06/19/03		
DATE ANALYZED	: 06/21/03		
ANALYTICAL DILUTION:	1.00		Dry Weight
PCB 1016	33	33 U	UG/KG
PCB 1221	33	33 U	UG/KG
PCB 1232	33	33 U	UG/KG
PCB 1242	33	33 U	UG/KG
PCB 1248	33	33 U	UG/KG
PCB 1254	33	33 U	UG/KG
PCB 1260	33	33 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(37 - 156 %)	91	%
TETRACHLORO-META-XYLENE	(45 - 133 %)	76	%

Cooler Receipt And Preservation Check Form

Project/Client BB Submission Number R2-17270

Cooler received on 4/1/03 by SSP COURIER: CAS UPS **FEDEX** CD&L CLIENT

1. Were custody seals on outside of cooler? **YES** NO
2. Were custody papers properly filled out (ink, signed, etc.)? **YES** NO
3. Did all bottles arrive in good condition (unbroken)? **YES** NO
4. Did any VOA vials have significant air bubbles? **YES** NO **N/A**
5. Were Ice or Ice packs present? **YES** NO
6. Where did the bottles originate? **CAS/ROQ** CLIENT
7. Temperature of cooler(s) upon receipt: 4

Is the temperature within 0° - 6° C?: **Yes** Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/1/03 11:15

Thermometer ID: 161 or **IR GUN** Reading From: Temp Blank or **Sample Bottle**

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 4/1/03 by: SSP

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? **YES** NO
2. Did all bottle labels and tags agree with custody papers? **YES** NO
3. Were correct containers used for the tests indicated? **YES** NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated **N/A**

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR # _____
CAS Contact _____

Project Name DOVER - KIRKWOOD		Project Number 05203		ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
Project Manager GREG ALBAIGIT		Report CC		PRESERVATIVE	
Company/Address BBL		Client Name BBL		METALS, TOTAL (List in comments below)	
Address SOUTH RIVER RD,		City/State/Zip CLAMBURY NJ 08512		METALS, DISSOLVED (List in comments below)	
Phone # 609-890-0590		FAX # 609-860-8007		METALS, TOTAL (List in comments below)	
Billing Signature <i>[Signature]</i>		Sampler's Print Name K. HAZSTON		PCBs (List in comments below)	
FOR OFFICE USE ONLY		LAB ID		PESTICIDES (List in comments below)	
CLIENT SAMPLE ID STOCK PILE #4		LAB ID 650210		GC YOA'S (List in comments below)	
SAMPLING DATE 6/18/03		SAMPLING TIME 1430		GC YOA'S (List in comments below)	
MATRIX SOIL		DATE 6/18/03		GCMS SVOA'S (List in comments below)	
NUMBER OF CONTAINERS 4		DATE 6/18/03		GCMS YOA'S (List in comments below)	
REMARKS/ALTERNATE DESCRIPTION		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
INVOICE INFORMATION		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
SPECIAL INSTRUCTIONS/COMMENTS Metals		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> Y/PAV		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
34 hr 48 hr 72 hr		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
STANDARD		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
REQUESTED FAX DATE		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
REQUESTED REPORT DATE		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + OC Summaries (LCS, DUP, MSM/SD as required) <input type="checkbox"/> III. Results + OC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data <input type="checkbox"/> V. Specialized Forms / Custom Report		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
Edite Yes No		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
SUBMISSION # 17270		RECEIVED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

APPENDIX C

Post-Excavation Soil Sample Analytical Reports



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 15, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT:DOVER-KIRKWOOD 05203
Submission #:R2317269

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 06/18/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317269
Project Manager : Mark Wilson
Reported : 07/15/03

Report Contains a total of 26 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317269

BBL samples were collected on 06/16/03 and received at CAS on 06/17/03 in good condition. The cooler temperature was 4 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited

New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

Cooler Receipt And Preservation Check Form

Project/Client AG Submission Number RZ-172129

Cooler received on 4/1/05 by AG COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROQ, CLIENT
7. Temperature of cooler(s) upon receipt: 4°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/1/05 10:15

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 4/1/05 by AG

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample ID.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A-1

Date Sampled : 06/16/03 Order #: 649458 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 85.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/17/03		
ANALYTICAL DILUTION:	95.00		Dry Weight
1,1-DICHLOROETHANE	5.0	550 U	UG/KG
1,1-DICHLOROETHENE	5.0	550 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	550 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	550 U	UG/KG
TETRACHLOROETHENE	5.0	550 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	550 U	UG/KG
TRICHLOROETHENE	5.0	550 U	UG/KG
VINYL CHLORIDE	5.0	550 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	100	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A-2

Date Sampled : 06/16/03 Order #: 649459 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 81.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/17/03		
ANALYTICAL DILUTION:	91.20		Dry Weight
1,1-DICHLOROETHANE	5.0	560 U	UG/KG
1,1-DICHLOROETHENE	5.0	560 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	560 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	560 U	UG/KG
TETRACHLOROETHENE	5.0	560 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	560 U	UG/KG
TRICHLOROETHENE	5.0	560 U	UG/KG
VINYL CHLORIDE	5.0	560 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	100	⊘
TOLUENE-D8	(83 - 117 %)	99	⊘
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	⊘

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A-3

Date Sampled : 06/16/03 Order #: 649460 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 82.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/17/03		
ANALYTICAL DILUTION:	117.00		
			Dry Weight
1,1-DICHLOROETHANE	5.0	710 U	UG/KG
1,1-DICHLOROETHENE	5.0	710 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	710 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	710 U	UG/KG
TETRACHLOROETHENE	5.0	160 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	710 U	UG/KG
TRICHLOROETHENE	5.0	710 U	UG/KG
VINYL CHLORIDE	5.0	710 U	UG/KG
<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A-4

Date Sampled : 06/16/03 Order #: 649461 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 85.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/17/03			
ANALYTICAL DILUTION: 87.10			Dry Weight
1,1-DICHLOROETHANE	5.0	510 U	UG/KG
1,1-DICHLOROETHENE	5.0	510 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	510 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	510 U	UG/KG
TETRACHLOROETHENE	5.0	510 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	510 U	UG/KG
TRICHLOROETHENE	5.0	510 U	UG/KG
VINYL CHLORIDE	5.0	510 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	⊗
TOLUENE-D8	(83 - 117 %)	98	⊗
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	⊗

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-5

Date Sampled : 06/16/03 Order #: 649462 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 81.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/17/03			
ANALYTICAL DILUTION: 108.00			Dry Weight
1,1-DICHLOROETHANE	5.0	660 U	UG/KG
1,1-DICHLOROETHENE	5.0	660 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	660 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	660 U	UG/KG
TETRACHLOROETHENE	5.0	660 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	660 U	UG/KG
TRICHLOROETHENE	5.0	660 U	UG/KG
VINYL CHLORIDE	5.0	660 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A-6

Date Sampled : 06/16/03 Order #: 649463 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 86.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/17/03		
ANALYTICAL DILUTION:	90.60		Dry Weight
1,1-DICHLOROETHANE	5.0	520 U	UG/KG
1,1-DICHLOROETHENE	5.0	520 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	520 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	520 U	UG/KG
TETRACHLOROETHENE	5.0	1700	UG/KG
1,1,1-TRICHLOROETHANE	5.0	520 U	UG/KG
TRICHLOROETHENE	5.0	520 U	UG/KG
VINYL CHLORIDE	5.0	520 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-7

Date Sampled : 06/16/03 Order #: 649464 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 78.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/17/03		
ANALYTICAL DILUTION:	93.40		Dry Weight
1,1-DICHLOROETHANE	5.0	590 U	UG/KG
1,1-DICHLOROETHENE	5.0	590 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	590 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	590 U	UG/KG
TETRACHLOROETHENE	5.0	590 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	590 U	UG/KG
TRICHLOROETHENE	5.0	590 U	UG/KG
VINYL CHLORIDE	5.0	590 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A-8

Date Sampled : 06/16/03 Order #: 649465 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/17/03 Submission #: R2317269 Percent Solid: 80.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/18/03			
ANALYTICAL DILUTION: 85.90			
			Dry Weight
1,1-DICHLOROETHANE	5.0	530 U	UG/KG
1,1-DICHLOROETHENE	5.0	530 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TETRACHLOROETHENE	5.0	530 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	530 U	UG/KG
TRICHLOROETHENE	5.0	530 U	UG/KG
VINYL CHLORIDE	5.0	530 U	UG/KG
<u>SURROGATE RECOVERIES</u>		<u>QC LIMITS</u>	
4-BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	90	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/15/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 649752 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/17/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 649458 Blasland, Bouck, & Lee, Inc.

Client ID: PX-A-1

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92125

Percent Solid : 85.8

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	5540	0	5360	97	5240	95	2	30	43 - 123
TRICHLOROETHENE	5540	0	5830	105	5240	95	11	30	44 - 127

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 649755 ANALYTICAL RUN #: 92125

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/17/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	101	70 - 130
1,1-DICHLOROETHENE	20.0	94	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	95	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	90	70 - 130
TETRACHLOROETHENE	20.0	99	70 - 130
1,1,1-TRICHLOROETHANE	20.0	88	70 - 130
TRICHLOROETHENE	20.0	96	70 - 130
VINYL CHLORIDE	20.0	93	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-1

Date Sampled : 06/16/03 Order #: 649458 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317269

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.8	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-2

Date Sampled : 06/16/03 Order #: 649459 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317269

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.5	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-3

Date Sampled : 06/16/03	Order #: 649460	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03	Submission #: R2317269	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	82.1	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-4

Date Sampled : 06/16/03 Order #: 649461 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317269

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.9	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-5

Date Sampled : 06/16/03	Order #: 649462	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03	Submission #: R2317269	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	81.4	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-6

Date Sampled : 06/16/03 Order #: 649463 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03 Submission #: R2317269

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	86.6	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-7

Date Sampled : 06/16/03	Order #: 649464	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03	Submission #: R2317269	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	78.6	%	06/18/03	09:25	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-8

Date Sampled : 06/16/03	Order #: 649465	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/17/03	Submission #: R2317269	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	80.9	%	06/18/03	09:25	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 16, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT:DOVER-KIRKWOOD 05203
Submission #:R2317315

Dear Mr. Albright

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317315
Project Manager : Mark Wilson
Reported : 07/16/03

Report Contains a total of 32 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

A handwritten signature in black ink, appearing to read "Michael K. Perry", is written over the text of the QA Department/Laboratory Director's review.

CASE NARRATIVE

**COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317315**

BBL samples were collected on 06/19/03 and received at CAS on 06/20/03 in good condition. The cooler temperature was 1 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

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 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited
 NELAP Accredited

New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services, Inc. An Employee - Owned Company www.caslab.com
 One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475
 SR # _____ CAS Contact _____

Project Name: DOVER - KIRKWOOD Project Number: 05203
 Project Manager: GREG AUSREIGHT Report CC:
 Company/Address: BBL
8 SOUTH RIVER RD
CRANBURY NJ 08512
 Phone: 609-860-0570 FAX: 609-860-8007
 Sample's Origin: W. Houston Sample's Printed Name: HOUSTON

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	ANALYSIS REQUESTED (Include Method Number and Container Preservative)	REMARKS/ALTERNATE DESCRIPTION
PX-C-1	650559	6/19/03	1100	SXK	3	GCMS YOAS DCLP GCMS SVOs DCLP GC YOAS DCLP PESTICIDES DCLP PCB's DCLP METALS, TOTAL DCLP METALS, DISSOLVED (List in comments below) VOC's + SVOC's (List in comments below)		
PX-C-2	60		1105					
PX-C-3	61		1110					
PX-C-4	62		1115					
PX-C-5	63		1130					
PX-C-6	64		1140					
PX-C-7	65		1205					
PX-C-8	66		1150					
PX-C-9	67		1125					
PX-C-10	68		1200					

SPECIAL INSTRUCTIONS/COMMENTS: Metals

See OAPP

TURNAROUND REQUIREMENTS: RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD
 REQUESTED FAX DATE: _____ REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS: I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) _____ III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report _____
 Estimate: Yes _____ No _____

INVOICE INFORMATION: PO# _____ BILL TO: _____

SUBMISSION # 122317315 RECEIVED BY: _____

CUSTOMERY SEALS: Y N
 RECEIVED BY: _____
 Signature: B. Smith
 Printed Name: B. Smith
 Firm: Velocity Express
 Date/Time: 6/19/03 10:22

RECEIVED BY: _____
 Signature: B. Smith
 Printed Name: B. Smith
 Firm: Velocity Express
 Date/Time: 6/19/03 10:22

RECEIVED BY: _____
 Signature: B. Smith
 Printed Name: B. Smith
 Firm: Velocity Express
 Date/Time: 6/19/03 10:22

Cooler Receipt And Preservation Check Form

Project/Client BBL Submission Number 22-17315

Cooler received on 1/20/03 by SNP COURIER: CAS UPS FEDEX CD&L CLIENT Velocity

1. Were custody seals on outside of cooler? YES NO
 2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
 3. Did all bottles arrive in good condition (unbroken)? YES NO
 4. Did any VOA vials have significant air bubbles? YES NO N/A
 5. Were ice or ice packs present? YES NO
 6. Where did the bottles originate? CAS/ROG, CLIENT
 7. Temperature of cooler(s) upon receipt: _____
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
- If No, Explain Below No No No No No

Date/Time Temperatures Taken: 1/20/03 1:20

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 1/20/03 by: SNP

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-) for TCN & Phenol						
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄.

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2	

Other Comments:

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-C-1

Date Sampled : 06/19/03 Order #: 650559 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	86.00		Dry Weight
1,1-DICHLOROETHANE	5.0	480 U	UG/KG
1,1-DICHLOROETHENE	5.0	480 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TETRACHLOROETHENE	5.0	270 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	480 U	UG/KG
TRICHLOROETHENE	5.0	480 U	UG/KG
VINYL CHLORIDE	5.0	480 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-C-2

Date Sampled : 06/19/03 Order #: 650560 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 90.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	112.00		Dry Weight
1,1-DICHLOROETHANE	5.0	620 U	UG/KG
1,1-DICHLOROETHENE	5.0	620 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	620 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	620 U	UG/KG
TETRACHLOROETHENE	5.0	620 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	620 U	UG/KG
TRICHLOROETHENE	5.0	620 U	UG/KG
VINYL CHLORIDE	5.0	620 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-C-3

Date Sampled : 06/19/03 Order #: 650561 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 90.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 109.00			Dry Weight
1,1-DICHLOROETHANE	5.0	600 U	UG/KG
1,1-DICHLOROETHENE	5.0	600 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	600 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	600 U	UG/KG
TETRACHLOROETHENE	5.0	130 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	600 U	UG/KG
TRICHLOROETHENE	5.0	600 U	UG/KG
VINYL CHLORIDE	5.0	600 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	μg
TOLUENE-D8	(83 - 117 %)	98	μg
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	μg

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-C-4

Date Sampled : 06/19/03 Order #: 650562 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 90.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	86.40		Dry Weight
1,1-DICHLOROETHANE	5.0	480 U	UG/KG
1,1-DICHLOROETHENE	5.0	480 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TETRACHLOROETHENE	5.0	380 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	480 U	UG/KG
TRICHLOROETHENE	5.0	480 U	UG/KG
VINYL CHLORIDE	5.0	480 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	100	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-5

Date Sampled : 06/19/03 Order #: 650563 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 89.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	76.60		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	240 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	89	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-6

Date Sampled : 06/19/03 Order #: 650564 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	86.40		Dry Weight
1,1-DICHLOROETHANE	5.0	480 U	UG/KG
1,1-DICHLOROETHENE	5.0	480 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TETRACHLOROETHENE	5.0	1300	UG/KG
1,1,1-TRICHLOROETHANE	5.0	480 U	UG/KG
TRICHLOROETHENE	5.0	480 U	UG/KG
VINYL CHLORIDE	5.0	480 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	89	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-7

Date Sampled : 06/19/03 **Order #: 650565** **Sample Matrix: SOIL/SEDIMENT**
Date Received: 06/20/03 **Submission #: R2317315** **Percent Solid: 89.2**

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	99.20		Dry Weight
1,1-DICHLOROETHANE	5.0	560 U	UG/KG
1,1-DICHLOROETHENE	5.0	560 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	560 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	560 U	UG/KG
TETRACHLOROETHENE	5.0	4700	UG/KG
1,1,1-TRICHLOROETHANE	5.0	560 U	UG/KG
TRICHLOROETHENE	5.0	560 U	UG/KG
VINYL CHLORIDE	5.0	560 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 ug)	98	ug
TOLUENE-D8	(83 - 117 ug)	98	ug
DIBROMOFLUOROMETHANE	(72 - 123 ug)	89	ug

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-C-8

Date Sampled : 06/19/03 Order #: 650566 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 87.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 77.30			Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	1900	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	100	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	90	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-9

Date Sampled : 06/19/03 Order #: 650567 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 90.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	87.40		Dry Weight
1,1-DICHLOROETHANE	5.0	490 U	UG/KG
1,1-DICHLOROETHENE	5.0	490 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TETRACHLOROETHENE	5.0	890	UG/KG
1,1,1-TRICHLOROETHANE	5.0	490 U	UG/KG
TRICHLOROETHENE	5.0	490 U	UG/KG
VINYL CHLORIDE	5.0	490 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	89	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-10

Date Sampled : 06/19/03 Order #: 650568 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315 Percent Solid: 87.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/21/03		Dry Weight
ANALYTICAL DILUTION:	80.80		
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	930	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	89	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/15/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650853 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/15/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 650855	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/21/03			Dry Weight
ANALYTICAL DILUTION: 100.00			
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE
TOLUENE-D8
DIBROMOFLUOROMETHANE

(68 - 128 %)
(83 - 117 %)
(72 - 123 %)

99 %
96 %
90 %

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 650568 Blasland, Bouck, & Lee, Inc.

Client ID: PX-C-10

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92280

Percent Solid : 87.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	4630	0	3560	77	3560	77	0	30	43 - 123
TRICHLOROETHENE	4630	0	3670	79	3670	79	0	30	44 - 127

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650854 ANALYTICAL RUN #: 92280

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	107	70 - 130
1,1-DICHLOROETHENE	20.0	104	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	109	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	101	70 - 130
TETRACHLOROETHENE	20.0	118	70 - 130
1,1,1-TRICHLOROETHANE	20.0	100	70 - 130
TRICHLOROETHENE	20.0	109	70 - 130
VINYL CHLORIDE	20.0	104	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650856 ANALYTICAL RUN #: 92280

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/21/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	95	70 - 130
1,1-DICHLOROETHENE	20.0	91	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	95	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	87	70 - 130
TETRACHLOROETHENE	20.0	102	70 - 130
1,1,1-TRICHLOROETHANE	20.0	83	70 - 130
TRICHLOROETHENE	20.0	98	70 - 130
VINYL CHLORIDE	20.0	89	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-1

Date Sampled : 06/19/03 Order #: 650559 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.2	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-2

Date Sampled : 06/19/03 Order #: 650560 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.0	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-3

Date Sampled : 06/19/03 Order #: 650561 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.3	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-4

Date Sampled : 06/19/03 Order #: 650562 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.5	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-5

Date Sampled : 06/19/03 Order #: 650563 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.9	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-6

Date Sampled : 06/19/03 Order #: 650564 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.6	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-7

Date Sampled : 06/19/03	Order #: 650565	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03	Submission #: R2317315	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.2	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-8

Date Sampled : 06/19/03 Order #: 650566 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.5	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-9

Date Sampled : 06/19/03 Order #: 650567 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.1	%	06/20/03	11:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-10

Date Sampled : 06/19/03 Order #: 650568 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/20/03 Submission #: R2317315

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.2	%	06/20/03	11:30	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 15, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT:DOVER-KIRKWOOD 05203
Submission #:R2317284

Dear Mr. Albright

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317284
Project Manager : Mark Wilson
Reported : 07/15/03

Report Contains a total of 33 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

CASE NARRATIVE

**COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317284**

BBL samples were collected on 06/17/03 and received at CAS on 06/18/03 in good condition. The cooler temperature was 5 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited

New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE		REMARKS/ALTERNATE DESCRIPTION	
DOVER - KIRKWOOD		05203						Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other	
Project Manager		Report CC							
GREG AUBRIGHT									
Company Address									
BBL									
B SOUTH RIVER RD		CRANBURY NJ		08512					
Phone #		FAX #							
609-890-0570		609-860-8007							
Sample Location		Sample's Printed Name							
Kelly S. Newton		KELLY S. NEWTON							
CLIENT SAMPLE ID		FOR OFFICE USE ONLY		SAMPLING DATE		TIME		MATRIX	
PX-E-1		649727		6/17/03		15:50		Soil	
PX-E-2		30		15:55				3	
PX-E-3		31		16:00				3	
PX-E-4		33		16:20				3	
PX-E-5		34		16:25				3	
PX-E-6		36		16:30				3	
PX-E-7		38		16:15				3	
PX-E-8		39		16:10				3	

SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION	
Metals		RUSH (SURCHARGES APPLY) 24 hr <input checked="" type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input type="checkbox"/>		I. Results Only II. Results + QC Summaries (LCS, DUP, MSMD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report		POF BILL TO:	
See OAPP <input type="checkbox"/>		STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE		Etc. Yes <input type="checkbox"/> No <input type="checkbox"/>		SUBMISSION # <u>12317284</u>	
SAMPLE RECEIPT: CONDITION/COOLER TEMP:		CUSTODY SEALS: Y N		RELINQUISHED BY		RECEIVED BY	
RELINQUISHED BY <i>Kelly S. Newton</i>		RELINQUISHED BY		Signature <i>Kelly S. Newton</i>		Signature	
Printed Name <i>Kelly S. Newton</i>		Printed Name		Printed Name		Printed Name	
Firm <i>BBL</i>		Firm		Firm		Firm	
Date/Time <i>6/27/03 17:00</i>		Date/Time		Date/Time		Date/Time	

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

800C-1102-08

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM



Columbia Analytical Services Inc.
 An Employee-Owned Company
 One Mustard St., Suite 250 • Rochester, NY 14608-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475
 www.caslab.com

SR # _____
 CAS Contact _____

PAGE _____ OF _____

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE	NUMBER OF CONTAINERS	REMARKS/ ALTERNATE DESCRIPTION	
Project Manager		Report CC							
ROVER - HILLWOOD		DS203							
GLEG ALBRIGHT									
75BL									
B SOUTH RIVER RD		RD 08512							
CLANGBURY NJ		08512							
609-860-0570		609-860-8007							
KELLY S. HOUSTON		KELLY S. HOUSTON							
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	TIME	MATRIX					
PX-A1-1	64977Y	6/17/03	0810	SQL					
PX-A1-2	Y6		0815						
PX-A1-3	Y8		0820						
SPECIAL INSTRUCTIONS/COMMENTS		CUSTODY SEAL: Y N		REQUIREMENTS		TURNAROUND REQUIREMENTS		INVOICE INFORMATION	
Metals		RECEIVED BY		I. Results Only II. Results + QC Summaries (LCS, DUP, MARMED as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report		RUSH (SURCHARGES APPLY) 24 hr <input checked="" type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input type="checkbox"/> STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE		POI BILL TO SIGNATURE RECEIVED BY	
See QAPP <input type="checkbox"/>		RECEIVED BY		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time	
SAMPLE RECEIPT: CONDITION/COOLER TEMP.		RECEIVED BY		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time	
KELLY S. HOUSTON		RECEIVED BY		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time	
KELLY S. HOUSTON		RECEIVED BY		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time	
6/17/03 1700		RECEIVED BY		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time		Signature Printed Name Firm Date/Time	

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client
 BC00-1102-06

Cooler Receipt And Preservation Check Form

Project/Client B2i Submission Number RZ-1724

Cooler received on 4/12/03 by [signature] COURIER: CAS UPS **FEDEX** CD&L CLIENT

1. Were custody seals on outside of cooler? **YES** NO
2. Were custody papers properly filled out (ink, signed, etc.)? **YES** NO
3. Did all bottles arrive in good condition (unbroken)? **YES** NO
4. Did any VOA vials have significant air bubbles? **YES** NO **(N/A)**
5. Were Ice or Ice packs present? **YES** NO
6. Where did the bottles originate? **CAS/ROC** CLIENT
7. Temperature of cooler(s) upon receipt: 5°

Is the temperature within 0° - 6° C?: **Yes** Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/12/03 9:45

Thermometer ID: 161 or **IR GUN** Reading From: Temp Blank or **Sample Bottle**

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 4/12/03 by: [signature]

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? **YES** NO
2. Did all bottle labels and tags agree with custody papers? **YES** NO
3. Were correct containers used for the tests indicated? **YES** NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated **(N/A)**

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-) for TCN & Phenol						
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-1

Date Sampled : 06/17/03 Order #: 649727 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 88.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	75.80		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	5400	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	98	pp
TOLUENE-D8	(83 - 117 %)	97	pp
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	pp

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-E-2

Date Sampled : 06/17/03 Order #: 649730 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 85.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/18/03			
ANALYTICAL DILUTION: 77.50			Dry Weight
1,1-DICHLOROETHANE	5.0	450 U	UG/KG
1,1-DICHLOROETHENE	5.0	450 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TETRACHLOROETHENE	5.0	4900	UG/KG
1,1,1-TRICHLOROETHANE	5.0	450 U	UG/KG
TRICHLOROETHENE	5.0	450 U	UG/KG
VINYL CHLORIDE	5.0	450 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-E-3

Date Sampled : 06/17/03 Order #: 649731 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 88.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	76.00		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	6400	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	96	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-4

Date Sampled : 06/17/03 Order #: 649733 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 85.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	80.00		Dry Weight
1,1-DICHLOROETHANE	5.0	470 U	UG/KG
1,1-DICHLOROETHENE	5.0	470 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TETRACHLOROETHENE	5.0	470 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	470 U	UG/KG
TRICHLOROETHENE	5.0	470 U	UG/KG
VINYL CHLORIDE	5.0	470 U	UG/KG
SURROGATE RECOVERIES		QC LIMITS	
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-E-5

Date Sampled : 06/17/03 Order #: 649734 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 85.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	72.80		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	430 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

VOLATILE ORGANICS
METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-6

Date Sampled : 06/17/03 **Order #:** 649736 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/18/03 **Submission #:** R2317284 **Percent Solid:** 88.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	74.40		Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	420 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	90	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-E-7

Date Sampled : 06/17/03 Order #: 649738 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 89.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	72.60		Dry Weight
1,1-DICHLOROETHANE	5.0	410 U	UG/KG
1,1-DICHLOROETHENE	5.0	410 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	410 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	410 U	UG/KG
TETRACHLOROETHENE	5.0	170 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	410 U	UG/KG
TRICHLOROETHENE	5.0	410 U	UG/KG
VINYL CHLORIDE	5.0	410 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-E-8

Date Sampled : 06/17/03 Order #: 649739 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 89.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/18/03			
ANALYTICAL DILUTION: 77.00			Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	2700	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	96	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	90	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A1-1

Date Sampled : 06/17/03 Order #: 649744 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 83.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	75.90		Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	340 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A1-2

Date Sampled : 06/17/03 Order #: 649746 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 84.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	81.60		Dry Weight
1,1-DICHLOROETHANE	5.0	480 U	UG/KG
1,1-DICHLOROETHENE	5.0	480 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TETRACHLOROETHENE	5.0	900	UG/KG
1,1,1-TRICHLOROETHANE	5.0	480 U	UG/KG
TRICHLOROETHENE	5.0	480 U	UG/KG
VINYL CHLORIDE	5.0	480 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	97	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

VOLATILE ORGANICS
METHOD 8260B TCL
 Reported: 07/16/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-A1-3

Date Sampled : 06/17/03 Order #: 649748 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/18/03 Submission #: R2317284 Percent Solid: 80.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/19/03		
ANALYTICAL DILUTION:	79.90		Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	100 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	5300	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	260 J	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	90	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/15/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650276 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/18/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	96	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 649727 Blasland, Bouck, & Lee, Inc.

Client ID: PX-E-1

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92192

Percent Solid : 88.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	4300	0	3970	92	3850	90	3	30	43 - 123
TRICHLOROETHENE	4300	0	4540	106	4310	100	5	30	44 - 127

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650277 ANALYTICAL RUN #: 92192

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/18/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	99	70 - 130
1,1-DICHLOROETHENE	20.0	95	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	101	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	92	70 - 130
TETRACHLOROETHENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	95	70 - 130
TRICHLOROETHENE	20.0	99	70 - 130
VINYL CHLORIDE	20.0	95	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-1

Date Sampled : 06/17/03 Order #: 649727 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R231728*

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.2	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-2

Date Sampled : 06/17/03	Order #: 649730	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03	Submission #: R2317284	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.6	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-3

Date Sampled : 06/17/03	Order #: 649731	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03	Submission #: R2317284	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.7	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-4

Date Sampled : 06/17/03 Order #: 649733 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.9	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-5

Date Sampled : 06/17/03
Date Received: 06/18/03

Order #: 649734
Submission #: R2317284

Sample Matrix: SOIL/SEDIMENT

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.5	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-6

Date Sampled : 06/17/03	Order #: 649736	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03	Submission #: R2317284	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.8	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-7

Date Sampled : 06/17/03 Order #: 649738 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.2	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-8

Date Sampled : 06/17/03 Order #: 649739 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.4	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-1

Date Sampled : 06/17/03 Order #: 649744 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	83.4	%	06/18/03	14:10	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-2

Date Sampled : 06/17/03 Order #: 649746 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.4	%	06/18/03	14:10	1.0

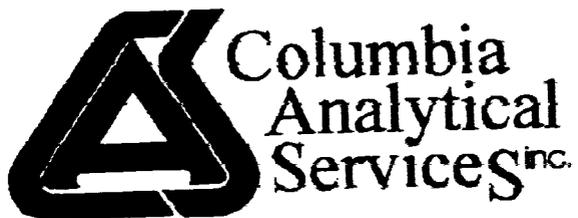
COLUMBIA ANALYTICAL SERVICES

Reported: 07/15/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-3

Date Sampled : 06/17/03 Order #: 649748 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/18/03 Submission #: R2317284

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	80.5	†	06/18/03	14:10	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 21, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT: DOVER-KIRKWOOD 05203
Submission #: R2317357

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 06/26/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317357
Project Manager : Mark Wilson
Reported : 07/21/03

Report Contains a total of 15 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317357

BBL samples were collected on 06/24/03 and received at CAS on 06/25/03 in good condition. The cooler temperature was 5 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All blank spike recoveries were within QC limits.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier -

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited

New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

Cooler Receipt And Preservation Check Form

Project/Client 33 Submission Number 22-17357

Cooler received on 6/25/03 by NO COURIER: CAS UPS FEDEX CD&L CLIENT Verity

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 5°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 6/25/03 1020
 Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 6/25/03 by: NO

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-) for TCN & Phenol						
5.9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH
 **If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-4

Date Sampled : 06/24/03 Order #: 651554 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/03 Submission #: R2317357 Percent Solid: 83.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	78.00		Dry Weight
1,1-DICHLOROETHANE	5.0	470 U	UG/KG
1,1-DICHLOROETHENE	5.0	470 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TETRACHLOROETHENE	5.0	1200	UG/KG
1,1,1-TRICHLOROETHANE	5.0	470 U	UG/KG
TRICHLOROETHENE	5.0	470 U	UG/KG
VINYL CHLORIDE	5.0	470 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	110	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-5

Date Sampled : 06/24/03 Order #: 651555 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/03 Submission #: R2317357 Percent Solid: 82.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			Dry Weight
ANALYTICAL DILUTION: 79.00			
1,1-DICHLOROETHANE	5.0	480 U	UG/KG
1,1-DICHLOROETHENE	5.0	480 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TETRACHLOROETHENE	5.0	18000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	480 U	UG/KG
TRICHLOROETHENE	5.0	480 U	UG/KG
VINYL CHLORIDE	5.0	480 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-9

Date Sampled : 06/24/03 Order #: 651556 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/03 Submission #: R2317357 Percent Solid: 87.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	78.00		Dry Weight
1,1-DICHLOROETHANE	5.0	450 U	UG/KG
1,1-DICHLOROETHENE	5.0	450 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TETRACHLOROETHENE	5.0	450 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	450 U	UG/KG
TRICHLOROETHENE	5.0	450 U	UG/KG
VINYL CHLORIDE	5.0	450 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	117	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/21/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 652028 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	110	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	120	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 652029

ANALYTICAL RUN #: 92431

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/25/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	110	70 - 130
1,1-DICHLOROETHENE	20.0	119	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	104	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	110	70 - 130
TETRACHLOROETHENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	123	70 - 130
TRICHLOROETHENE	20.0	108	70 - 130
VINYL CHLORIDE	20.0	128	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-4

Date Sampled : 06/24/03 Order #: 651554 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/03 Submission #: R2317357

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	83.5	%	06/25/03	11:33	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A1-5

Date Sampled : 06/24/03 Order #: 651555 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/03 Submission #: R2317357

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT	DATE	TIME	DILUTION
				UNITS	ANALYZED	ANALYZED	
PERCENT SOLIDS	160.0	1.0	82.4	%	06/25/03	11:33	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-A-9

Date Sampled : 06/24/03 Order #: 651556 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/25/03 Submission #: R2317357

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.2	g	06/25/03	11:33	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 21, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT:DOVER-KIRKWOOD 05203
Submission #:R2317299

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 06/20/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317299
Project Manager : Mark Wilson
Reported : 07/21/03

Report Contains a total of 38 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael E. Perry*

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317299

BBL samples were collected on 06/18/03 and received at CAS on 06/19/03 in good condition. The cooler temperature was 3 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited
 NELAP Accredited

New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-885-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

Project Name DOVER - KIRKWOOD		Project Number 05203		ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
Project Manager GREG ALBRIGHT		Report CC		PRESERVATIVE	
Company/Address BBL E SOUTH RIVER RD CHAMBERLY NJ 08512		FAX 609-860-0590		METALS, TOTAL (List in comments below)	
Client's Signature <i>[Signature]</i>		Sample's Printed Name DOVER		METALS, DISSOLVED (List in comments below)	
FOR OFFICE USE ONLY		LAB ID		METALS, TOTAL PCB's <input type="checkbox"/> 8082 <input type="checkbox"/> 808 D.C.P.	
CLIENT SAMPLE ID	LAB ID	DATE	SAMPLING TIME	MATRIX	PESTICIDES <input type="checkbox"/> 8081 <input type="checkbox"/> 808 D.C.P.
PX-B-1	650174	6/14/03	1630	SOIL	GC VOAS <input type="checkbox"/> 8021 <input type="checkbox"/> 801/802
PX-B-2	75	6/4/03	1640		GC VOAS <input type="checkbox"/> 8270 <input type="checkbox"/> 825 D.C.P.
PX-B-3	76	6/4/03	1645		GCMS SVAS <input type="checkbox"/> 8280 <input type="checkbox"/> 824 D.C.P.
PX-B-4	77	6/17/03	1710		GCMS SVAS <input type="checkbox"/> 8280 <input type="checkbox"/> 824 D.C.P.
PX-B-5	77A	6/17/03	1720		
PX-B-6	79	6/17/03	1730		
PX-B-7	80	6/17/03	1735		
PX-B-8	81	6/17/03	1745		
PX-B-9	82	6/17/03	1751		
PX-B-10	83	6/17/03	1810		
SPECIAL INSTRUCTIONS/COMMENTS Metals					
TURNAROUND REQUIREMENTS MUSH (BURCHARGES APPLY) 34 hr <input checked="" type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input type="checkbox"/> STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE			REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MSMSD as required) III. Results + QC and Calibration Summaries IV. Data Verification Report with Raw Data V. Specialized Forms / Custom Report Edits Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
RECEIVED BY <i>[Signature]</i> Printed Name Greg Albright Firm BBL Date/Time 6/10/03 1715			RECEIVED BY <i>[Signature]</i> Printed Name Greg Albright Firm BBL Date/Time 6/10/03 1715		
CUSTODY SEALS: Y N			RECEIVED BY <i>[Signature]</i> Printed Name Greg Albright Firm BBL Date/Time 6/10/03 1715		
SAMPLE RECEIPT: CONDITION/COOLER TEMP: RECEIVED BY <i>[Signature]</i> Printed Name Greg Albright Firm BBL Date/Time 6/10/03 1715			RECEIVED BY <i>[Signature]</i> Printed Name Greg Albright Firm BBL Date/Time 6/10/03 1715		
SUBMITTER 12317299			RECEIVED BY <i>[Signature]</i> Printed Name Greg Albright Firm BBL Date/Time 6/10/03 1715		
REMARKS/ALTERNATE DESCRIPTION			INVOICE INFORMATION		
PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other			PO# BILL TO: SUBMITTER 12317299		

Cooler Receipt And Preservation Check Form

Project/Client EP2 Submission Number 17299

Cooler received on 6/14/03 by MS COURIER: CAS UPS FEDEX CD&L CLIENT
Velocity

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 3

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 6/14/03 10:00

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 6/14/03 by: MS

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagents	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-) for TCN & Phenol						
5.9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH
 **If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2			

Other Comments:

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-1

Date Sampled : 06/18/03 Order #: 650174 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 87.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/19/03		
ANALYTICAL DILUTION:	77.50		Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	150 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	6900	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	90	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-2

Date Sampled : 06/18/03 **Order #: 650175** **Sample Matrix: SOIL/SEDIMENT**
Date Received: 06/19/03 **Submission #: R2317299** **Percent Solid: 84.7**

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/19/03			
ANALYTICAL DILUTION: 77.50			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	17000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-3

Date Sampled : 06/18/03 Order #: 650176 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 85.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	157.00		Dry Weight
1,1-DICHLOROETHANE	5.0	910 U	UG/KG
1,1-DICHLOROETHENE	5.0	910 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	910 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	910 U	UG/KG
TETRACHLOROETHENE	5.0	5700	UG/KG
1,1,1-TRICHLOROETHANE	5.0	910 U	UG/KG
TRICHLOROETHENE	5.0	910 U	UG/KG
VINYL CHLORIDE	5.0	910 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-3

Date Sampled : 06/18/03 Order #: 650176 Sample Matrix: SOIL/SEDIMEN
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 85.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 78.40			
			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	99 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	5400	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG
<u>SURROGATE RECOVERIES</u>		<u>QC LIMITS</u>	
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-4

Date Sampled : 06/18/03 **Order #:** 650177 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/19/03 **Submission #:** R2317299 **Percent Solid:** 84.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 150.00			Dry Weight
1,1-DICHLOROETHANE	5.0	890 U	UG/KG
1,1-DICHLOROETHENE	5.0	890 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	890 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	890 U	UG/KG
TETRACHLOROETHENE	5.0	30000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	890 U	UG/KG
TRICHLOROETHENE	5.0	890 U	UG/KG
VINYL CHLORIDE	5.0	890 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-5

Date Sampled : 06/18/03 **Order #: 650178** **Sample Matrix: SOIL/SEDIMENT**
Date Received: 06/19/03 **Submission #: R2317299** **Percent Solid: 88.8**

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 77.80			Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	250 J	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	5700	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG
<u>SURROGATE RECOVERIES</u>		<u>QC LIMITS</u>	
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-6

Date Sampled : 06/18/03 Order #: 650179 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 89.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	82.40		Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	110000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	108	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-6

Date Sampled : 06/18/03 Order #: 650179 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 89.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	824.00		Dry Weight
1,1-DICHLOROETHANE	5.0	4600 U	UG/KG
1,1-DICHLOROETHENE	5.0	4600 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	4600 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	4600 U	UG/KG
TETRACHLOROETHENE	5.0	120000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	4600 U	UG/KG
TRICHLOROETHENE	5.0	4600 U	UG/KG
VINYL CHLORIDE	5.0	4600 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-7

Date Sampled : 06/18/03 Order #: 650180 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 89.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 82.10			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	13000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	620	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	102	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-8

Date Sampled : 06/18/03 Order #: 650181 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 83.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	81.30		Dry Weight
1,1-DICHLOROETHANE	5.0	490 U	UG/KG
1,1-DICHLOROETHENE	5.0	1400	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TETRACHLOROETHENE	5.0	5000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	300 J	UG/KG
TRICHLOROETHENE	5.0	490 U	UG/KG
VINYL CHLORIDE	5.0	490 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	%
TOLUENE-D8	(83 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	110	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-9

Date Sampled : 06/18/03 Order #: 650182 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 88.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	383.00		Dry Weight
1,1-DICHLOROETHANE	5.0	2200 U	UG/KG
1,1-DICHLOROETHENE	5.0	2200 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	2200 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	2200 U	UG/KG
TETRACHLOROETHENE	5.0	52000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	2200 U	UG/KG
TRICHLOROETHENE	5.0	2200 U	UG/KG
VINYL CHLORIDE	5.0	2200 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	110	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-B-9

Date Sampled : 06/18/03 Order #: 650182 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/19/03 Submission #: R2317299 Percent Solid: 88.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	76.60		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	48000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	107	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	100	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-10

Date Sampled : 06/18/03 **Order #: 650183** **Sample Matrix: SOIL/SEDIMEN**
Date Received: 06/19/03 **Submission #: R2317299** **Percent Solid: 89.4**

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	80.80		Dry Weight
1,1-DICHLOROETHANE	5.0	450 U	UG/KG
1,1-DICHLOROETHENE	5.0	450 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TETRACHLOROETHENE	5.0	7700	UG/KG
1,1,1-TRICHLOROETHANE	5.0	450 U	UG/KG
TRICHLOROETHENE	5.0	450 U	UG/KG
VINYL CHLORIDE	5.0	450 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	107	%
TOLUENE-D8	(83 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/21/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650743 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/19/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/21/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650741 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	94	%
TOLUENE-D8	(83 - 117 %)	105	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	84	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/21/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 650747 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/20/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 650174 Blasland, Bouck, & Lee, Inc.

Client ID: PX-B-1

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92249

Percent Solid : 87.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	4440	0	3780	85	3780	85	0	30	43 - 123
TRICHLOROETHENE	4440	0	4130	93	4130	93	0	30	44 - 127

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 650182 Biasland, Bouck, & Lee, Inc.

Client ID: PX-B-9

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92248

Percent Solid : 88.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
I, I-DICHLOROETHENE	21780	0	21500	99	22700	105	5	30	43 - 123
TRICHLOROETHENE	21700	0	22700	105	22700	105	0	30	44 - 127

OLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650744 ANALYTICAL RUN # : 92249

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/19/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	92	70 - 130
1,1-DICHLOROETHENE	20.0	87	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	91	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	88	70 - 130
TETRACHLOROETHENE	20.0	101	70 - 130
1,1,1-TRICHLOROETHANE	20.0	82	70 - 130
TRICHLOROETHENE	20.0	94	70 - 130
VINYL CHLORIDE	20.0	82	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650742 ANALYTICAL RUN #: 92248

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	89	70 - 130
1,1-DICHLOROETHENE	20.0	93	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	85	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	87	70 - 130
TETRACHLOROETHENE	20.0	93	70 - 130
1,1,1-TRICHLOROETHANE	20.0	93	70 - 130
TRICHLOROETHENE	20.0	86	70 - 130
VINYL CHLORIDE	20.0	89	70 - 130

OLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 650748 ANALYTICAL RUN # : 92249

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/20/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	107	70 - 130
1,1-DICHLOROETHENE	20.0	104	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	109	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	101	70 - 130
TETRACHLOROETHENE	20.0	118	70 - 130
1,1,1-TRICHLOROETHANE	20.0	100	70 - 130
TRICHLOROETHENE	20.0	109	70 - 130
VINYL CHLORIDE	20.0	104	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-1

Date Sampled : 06/18/03 Order #: 650174 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.2	‡	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-B-2

Date Sampled : 06/18/03 Order #: 650175 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.7	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-B-3

Date Sampled : 06/18/03	Order #: 650176	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03	Submission #: R2317299	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.9	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-4

Date Sampled : 06/18/03 Order #: 650177 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT	DATE	TIME	DILUTION
				UNITS	ANALYZED	ANALYZED	
PERCENT SOLIDS	160.0	1.0	84.6	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-5

Date Sampled : 06/18/03	Order #: 650178	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03	Submission #: R2317299	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.8	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-6

Date Sampled : 06/18/03 Order #: 650179 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.9	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-7

Date Sampled : 06/18/03	Order #: 650180	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03	Submission #: R2317299	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.2	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-E-8

Date Sampled : 06/18/03 Order #: 650181 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	83.4	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-9

Date Sampled : 06/18/03 Order #: 650182 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.2	%	06/19/03	15:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-10

Date Sampled : 06/18/03 Order #: 650183 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/19/03 Submission #: R2317299

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.4	%	06/19/03	15:00	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 21, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT:DOVER-KIRKWOOD 05203
Submission #:R2317340

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 06/25/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317340
Project Manager : Mark Wilson
Reported : 07/21/03

Report Contains a total of 40 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K Perry*

CASE NARRATIVE

**COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317340**

BBL samples were collected on 06/23/03 and received at CAS on 06/24/03 in good condition. The cooler temperature was 3 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits except for the recovery of 1,1-Dichloroethene in the MS and MSD of PX-D-1.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited
 NELAP Accredited

New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292

Cooler Receipt And Preservation Check Form

Project/Client SLA Submission Number 22-17340

Cooler received on 12/24/03 by [Signature] COURIER: CAS UPS FEDEX CD&L CLIENT Velocity

- | | | | |
|---|--|-----------------------------|-------|
| 1. Were custody seals on outside of cooler? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 2. Were custody papers properly filled out (ink, signed, etc.)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 3. Did all bottles arrive in good condition (unbroken)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 4. Did any VOA vials have significant air bubbles? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | (N/A) |
| 5. Were Ice or Ice packs present? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 6. Where did the bottles originate? | <input checked="" type="checkbox"/> CAS/ROG, <input type="checkbox"/> CLIENT | | |
| 7. Temperature of cooler(s) upon receipt: | <u>5</u> | | |

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 12/24/03 1125

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 12/24/03 by: [Signature]

- | | | | |
|--|---|-----------------------------|-------|
| 1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 2. Did all bottle labels and tags agree with custody papers? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 3. Were correct containers used for the tests indicated? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | |
| 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated | | | (N/A) |

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-) for TCN & Phenol						
5.9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2	

Other Comments:

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-1

Date Sampled : 06/23/03 Order #: 651153 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 88.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	94.00		Dry Weight
1,1-DICHLOROETHANE	5.0	530 U	UG/KG
1,1-DICHLOROETHENE	5.0	530 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TETRACHLOROETHENE	5.0	530 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	530 U	UG/KG
TRICHLOROETHENE	5.0	530 U	UG/KG
VINYL CHLORIDE	5.0	530 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	108	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	107	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-2

Date Sampled : 06/23/03 Order #: 651154 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 85.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	104.00		Dry Weight
1,1-DICHLOROETHANE	5.0	610 U	UG/KG
1,1-DICHLOROETHENE	5.0	610 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	610 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	610 U	UG/KG
TETRACHLOROETHENE	5.0	4600	UG/KG
1,1,1-TRICHLOROETHANE	5.0	610 U	UG/KG
TRICHLOROETHENE	5.0	610 U	UG/KG
VINYL CHLORIDE	5.0	610 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-3

Date Sampled : 06/23/03 Order #: 651155 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 88.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	76.00		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	17000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	117	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-3

Date Sampled : 06/23/03 **Order #:** 651155 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/24/03 **Submission #:** R2317340 **Percent Solid:** 88.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			
ANALYTICAL DILUTION: 152.00			Dry Weight
1,1-DICHLOROETHANE	5.0	860 U	UG/KG
1,1-DICHLOROETHENE	5.0	860 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	860 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	860 U	UG/KG
TETRACHLOROETHENE	5.0	16000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	860 U	UG/KG
TRICHLOROETHENE	5.0	860 U	UG/KG
VINYL CHLORIDE	5.0	860 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	119	μg
TOLUENE-D8	(83 - 117 %)	99	μg
DIBROMOFLUCROMETHANE	(72 - 123 %)	123	μg

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-D-4

Date Sampled : 06/23/03 Order #: 651156 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 89.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/03			
ANALYTICAL DILUTION: 75.00			Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	2800	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-5

Date Sampled : 06/23/03 Order #: 651157 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 82.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/03			
ANALYTICAL DILUTION: 80.00			Dry Weight
1,1-DICHLOROETHANE	5.0	480 U	UG/KG
1,1-DICHLOROETHENE	5.0	480 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	480 U	UG/KG
TETRACHLOROETHENE	5.0	1300	UG/KG
1,1,1-TRICHLOROETHANE	5.0	480 U	UG/KG
TRICHLOROETHENE	5.0	480 U	UG/KG
VINYL CHLORIDE	5.0	480 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	115	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-D-6

Date Sampled : 06/23/03 Order #: 651158 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 83.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	81.00		Dry Weight
1,1-DICHLOROETHANE	5.0	490 U	UG/KG
1,1-DICHLOROETHENE	5.0	490 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TETRACHLOROETHENE	5.0	3500	UG/KG
1,1,1-TRICHLOROETHANE	5.0	490 U	UG/KG
TRICHLOROETHENE	5.0	490 U	UG/KG
VINYL CHLORIDE	5.0	490 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	113	%
TOLUENE-D8	(83 - 117 %)	93	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	115	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-7

Date Sampled : 06/23/03 **Order #:** 651159 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/24/03 **Submission #:** R2317340 **Percent Solid:** 85.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/03			
ANALYTICAL DILUTION: 71.00			Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	5300	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	117	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-D-8

Date Sampled : 06/23/03 Order #: 651160 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 84.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/24/03		
ANALYTICAL DILUTION:	72.00		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	980	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG
<u>SURROGATE RECOVERIES</u>		<u>QC LIMITS</u>	
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-1

Date Sampled : 06/23/03 **Order #:** 651161 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/24/03 **Submission #:** R2317340 **Percent Solid:** 88.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			
ANALYTICAL DILUTION: 76.00			Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	430 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	%
TOLUENE-D8	(83 - 117 %)	108	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	83	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-F-3

Date Sampled : 06/23/03 Order #: 651163 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 88.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			
ANALYTICAL DILUTION: 74.00			Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	420 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG
<u>SURROGATE RECOVERIES</u>		<u>QC LIMITS</u>	
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-4

Date Sampled : 06/23/03 Order #: 651164 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 87.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED		: 06/25/03	
ANALYTICAL DILUTION:	76.00		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	430 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	121	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-5

Date Sampled : 06/23/03 Order #: 651165 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340 Percent Solid: 87.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/25/03		
ANALYTICAL DILUTION:	77.00		Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	440 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	106	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/21/03

Project Reference:
 Client Sample ID : METHOD BLANK

Date Sampled : Order #: 656592 Sample Matrix: SOIL/SEDIMENT
 Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/25/03			Dry Weight
ANALYTICAL DILUTION: 100.00			
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	110	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	120	%

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 651153 Blasland, Bouck, & Lee, Inc.

Client ID: FX-D-1

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92369

Percent Solid : 88.0

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	5340	0	6820	128*	7050	132*	3	30	43 - 123
TRICHLOROETHENE	5340	0	5230	98	4430	83	17	30	44 - 127

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 651497 ANALYTICAL RUN #: 92369

ANALYTE TRUE VALUE % RECOVERY QC LIMITS

DATE ANALYZED : 06/24/2003

ANALYTICAL DILUTION: 1.0

1,1-DICHLOROETHANE	20.0	104	70 - 130
1,1-DICHLOROETHENE	20.0	114	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	100	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	108	70 - 130
TETRACHLOROETHENE	20.0	110	70 - 130
1,1,1-TRICHLOROETHANE	20.0	114	70 - 130
TRICHLOROETHENE	20.0	104	70 - 130
VINYL CHLORIDE	20.0	117	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 656593 ANALYTICAL RUN #: 92369

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/25/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	110	70 - 130
1,1-DICHLOROETHENE	20.0	119	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	104	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	110	70 - 130
TETRACHLOROETHENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	123	70 - 130
TRICHLOROETHENE	20.0	108	70 - 130
VINYL CHLORIDE	20.0	128	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-1

Date Sampled : 06/23/03	Order #: 651153	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03	Submission #: R2317340	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.0	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-2

Date Sampled : 06/23/03	Order #: 651154	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03	Submission #: R2317340	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.0	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-3

Date Sampled : 06/23/03 Order #: 651155 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.4	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-4

Date Sampled : 06/23/03 Order #: 651156 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.1	‡	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-5

Date Sampled : 06/23/03	Order #: 651157	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03	Submission #: R2317340	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	82.6	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-6

Date Sampled : 06/23/03	Order #: 651158	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03	Submission #: R2317340	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	83.5	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-7

Date Sampled : 06/23/03 Order #: 651159 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	85.0	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-8

Date Sampled : 06/23/03 Order #: 651160 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.7	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-1

Date Sampled : 06/23/03	Order #: 651161	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03	Submission #: R2317340	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.2	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-2

Date Sampled : 06/23/03 Order #: 651162 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.1	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-3

Date Sampled : 06/23/03	Order #: 651163	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03	Submission #: R2317340	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.4	‡	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-4

Date Sampled : 06/23/03 Order #: 651164 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.7	%	06/24/03	13:40	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-F-5

Date Sampled : 06/23/03 Order #: 651165 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/24/03 Submission #: R2317340

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	87.4	%	06/24/03	13:40	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 23, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT: DOVER-KIRKWOOD 05203
Submission #: R2317402

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 06/27/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317402
Project Manager : Mark Wilson
Reported : 07/23/03

Report Contains a total of 34 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. L. Keyes

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317402

BBL samples were collected on 06/25/03 and received at CAS on 06/26/03 in good condition. The cooler temperature was 5 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits except for the recovery of 1,1-Dichloroethene in the MS of PX-B-11.

Surrogate Standard recoveries were outside QC limits in samples PX-B-12, PX-B-16, PX-B-17 and PX-B-18. Each of these samples was reanalyzed. Both sets of data have been reported.

All Internal Standard areas were within QC limits except for IS2 in the replicate analysis of PX-B-18.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
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 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited
 NELAP Accredited

New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292

Cooler Receipt And Preservation Check Form

Project/Client BB Submission Number RZ-1740Z

Cooler received on 6/24/03 by NDZ COURIER: CAS UPS FEDEX CD&L CLIENT
Velocity

- | | | | | |
|---|----------------|--------|------------|--|
| 1. Were custody seals on outside of cooler? | <u>YES</u> | NO | | |
| 2. Were custody papers properly filled out (ink, signed, etc.)? | <u>YES</u> | NO | | |
| 3. Did all bottles arrive in good condition (unbroken)? | <u>YES</u> | NO | | |
| 4. Did any VOA vials have significant air bubbles? | <u>YES</u> | NO | <u>N/A</u> | |
| 5. Were Ice or Ice packs present? | <u>YES</u> | NO | | |
| 6. Where did the bottles originate? | <u>CAS/ROG</u> | CLIENT | | |

7. Temperature of cooler(s) upon receipt: .5

Is the temperature within 0° - 6° C?:	<u>Yes</u>	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 6/24/03 1030
 Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 6/24/03 by: NDZ

- | | | | | |
|--|------------|----|--|------------|
| 1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? | <u>YES</u> | NO | | |
| 2. Did all bottle labels and tags agree with custody papers? | <u>YES</u> | NO | | |
| 3. Were correct containers used for the tests indicated? | <u>YES</u> | NO | | |
| 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated | | | | <u>N/A</u> |

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH
 **If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2	

Other Comments:

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-11

Date Sampled : 06/25/03 Order #: 652000 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 88.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/03		
ANALYTICAL DILUTION:	78.00		Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	650	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	105	%
TOLUENE-D8	(83 - 117 %)	111	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	80	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-12

Date Sampled : 06/25/03 Order #: 652001 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 86.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
ANALYTICAL DILUTION: 80.00			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	460 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	119	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	139 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-12

Date Sampled : 06/25/03 Order #: 652001 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 86.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 80.00			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	460 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	115	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-13

Date Sampled : 06/25/03 Order #: 652002 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/03		
ANALYTICAL DILUTION:	78.00		Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	580	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	df
TOLUENE-D8	(83 - 117 %)	101	df
DIBROMOFLUOROMETHANE	(72 - 123 %)	119	df

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-14

Date Sampled : 06/25/03 Order #: 652003 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/03		
ANALYTICAL DILUTION:	77.00		Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	320 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	df
TOLUENE-D8	(83 - 117 %)	112	df
DIBROMOFLUOROMETHANE	(72 - 123 %)	110	df

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-15

Date Sampled : 06/25/03 Order #: 652004 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
ANALYTICAL DILUTION: 76.00			Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	280 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-16

Date Sampled : 06/25/03 Order #: 652005 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
ANALYTICAL DILUTION: 90.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	128 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-16

Date Sampled : 06/25/03 Order #: 652005 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/07/03		
ANALYTICAL DILUTION:	90.00		Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	%
TOLUENE-D8	(83 - 117 %)	91	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-17

Date Sampled : 06/25/03 Order #: 652006 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/26/03		
ANALYTICAL DILUTION:	70.00		Dry Weight
1,1-DICHLOROETHANE	5.0	390 U	UG/KG
1,1-DICHLOROETHENE	5.0	390 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TETRACHLOROETHENE	5.0	390 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	390 U	UG/KG
TRICHLOROETHENE	5.0	390 U	UG/KG
VINYL CHLORIDE	5.0	390 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	{68 - 128 %}	120	%
TOLUENE-D8	{83 - 117 %}	99	%
DIBROMOFLUOROMETHANE	{72 - 123 %}	140 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-17

Date Sampled : 06/25/03 Order #: 652006 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 89.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/07/03			
ANALYTICAL DILUTION: 70.00			Dry Weight
1,1-DICHLOROETHANE	5.0	390 U	UG/KG
1,1-DICHLOROETHENE	5.0	390 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TETRACHLOROETHENE	5.0	390 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	390 U	UG/KG
TRICHLOROETHENE	5.0	390 U	UG/KG
VINYL CHLORIDE	5.0	390 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	113	ug
TOLUENE-D8	(83 - 117 %)	92	ug
DIBROMOFLUOROMETHANE	(72 - 123 %)	95	ug

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-18

Date Sampled : 06/25/03 Order #: 652007 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 84.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
ANALYTICAL DILUTION: 79.00			Dry Weight
1,1-DICHLOROETHANE	5.0	470 U	UG/KG
1,1-DICHLOROETHENE	5.0	470 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TETRACHLOROETHENE	5.0	330 J	UG/KG
1,1,1-TRICHLOROETHANE	5.0	470 U	UG/KG
TRICHLOROETHENE	5.0	470 U	UG/KG
VINYL CHLORIDE	5.0	470 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	μg
TOLUENE-D8	(83 - 117 %)	102	μg
DIBROMOFLUOROMETHANE	(72 - 123 %)	125 *	μg

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-18

Date Sampled : 06/25/03 Order #: 652007 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402 Percent Solid: 84.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/07/03		
ANALYTICAL DILUTION:	79.00		Dry Weight
1,1-DICHLOROETHANE	5.0	470 U	UG/KG
1,1-DICHLOROETHENE	5.0	470 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	470 U	UG/KG
TETRACHLOROETHENE	5.0	470 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	470 U	UG/KG
TRICHLOROETHENE	5.0	470 U	UG/KG
VINYL CHLORIDE	5.0	470 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	118	%
TOLUENE-D8	(83 - 117 %)	93	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 658076 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	⊘
TOLUENE-D8	(83 - 117 %)	114	⊘
DIBROMOFLUOROMETHANE	(72 - 123 %)	77	⊘

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 658078 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/07/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	92	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	%

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 652000 Blasland, Bouck, & Lee, Inc.

Client ID: FX-B-11

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92891

Percent Solid : 88.6

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	4400	C	5760	131*	6660	151*14	30		43 - 123
TRICHLOROETHENE	4400	C	5530	126	5190	118	6	30	44 - 127

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 652542 ANALYTICAL RUN #: 92491

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/26/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	91	70 - 130
1,1-DICHLOROETHENE	20.0	96	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	91	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	95	70 - 130
TETRACHLOROETHENE	20.0	111	70 - 130
1,1,1-TRICHLOROETHANE	20.0	102	70 - 130
TRICHLOROETHENE	20.0	96	70 - 130
VINYL CHLORIDE	20.0	102	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 658077 ANALYTICAL RUN #: 92491

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 06/27/2003			
ANALYTICAL DILUTION: 1.0			
1,1-DICHLOROETHANE	20.0	92	70 - 130
1,1-DICHLOROETHENE	20.0	91	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	90	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	93	70 - 130
TETRACHLOROETHENE	20.0	98	70 - 130
1,1,1-TRICHLOROETHANE	20.0	99	70 - 130
TRICHLOROETHENE	20.0	94	70 - 130
VINYL CHLORIDE	20.0	90	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 658079 ANALYTICAL RUN #: 92491

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/07/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	90	70 - 130
1,1-DICHLOROETHENE	20.0	99	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	97	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	100	70 - 130
TETRACHLOROETHENE	20.0	97	70 - 130
1,1,1-TRICHLOROETHANE	20.0	96	70 - 130
TRICHLOROETHENE	20.0	100	70 - 130
VINYL CHLORIDE	20.0	101	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-B-11

Date Sampled : 06/25/03 Order #: 652000 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.6	‡	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-12

Date Sampled : 06/25/03 Order #: 652001 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	86.6	%	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-13

Date Sampled : 06/25/03 Order #: 652002 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.6	‡	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-14

Date Sampled : 06/25/03 Order #: 652003 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.5	‡	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-B-15

Date Sampled : 06/25/03	Order #: 652004	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03	Submission #: R2317402	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.6	%	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-16

Date Sampled : 06/25/03 Order #: 652005 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.2	‡	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-17

Date Sampled : 06/25/03 Order #: 652006 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.0	%	06/26/03	15:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-B-18

Date Sampled : 06/25/03 Order #: 652007 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/26/03 Submission #: R2317402

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	84.9	†	06/26/03	15:20	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 23, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT:DOVER-KIRKWOOD 05203
Submission #:R2317425

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 07/01/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317425

BBL samples were collected on 06/26/03 and received at CAS on 06/27/03 in good condition. The cooler temperature was 4 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits except for the recovery of 1,1-Dichloroethene and Trichloroethene in the MSD of PX-D-14.

Surrogate Standard recoveries were outside QC limits in samples PX-C-13 and PX-C-14. Each of these samples was reanalyzed. Both sets of data have been reported.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - *This flag applies to pesticide results where the identification has been confirmed by GC/MS.*
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited

NELAP Accredited
 New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID #91012
 West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
 Delaware Accredited
 Connecticut ID # PH0556
 Florida ID # E87674
 Massachusetts ID # M-NY032
 Navy Facilities Engineering Service Center Approved
 Nebraska Accredited
 NELAP Accredited

New York ID # 10145
 New Jersey ID # NY004
 New Hampshire ID # 294100 A/B
 Pennsylvania Registration 68-786
 Rhode Island ID # 158
 South Carolina ID # 91012
 West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR # _____ CAS Contact _____

PAGE 1 OF 2

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE	REMARKS/ ALTERNATE DESCRIPTION
Client Sample ID		FOR OFFICE USE ONLY		PRELIMINARY RESULTS			
CLIENT SAMPLE ID	LAB ID	LAB ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	
PX-C-11	652398	6/26/03	8:25		Soil	3	
PX-C-12	99	6/26/03	8:35		Soil	3	
PX-C-13	400	6/26/03	8:40		Soil	7	
PX-C-14	01	6/26/03	8:45		Soil	3	
PX-C-15	02	6/26/03	8:55		Soil	3	
PX-D-9	03	6/26/03	10:20		Soil	3	
PX-D-10	04	6/26/03	10:25		Soil	3	
PX-D-11	05	6/26/03	10:30		Soil	3	
PX-D-12	06	6/26/03	11:40		Soil	3	
PX-D-13	08	6/26/03	11:45		Soil	3	

SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION	
Metals		RUSH (SURCHARGER APPLY)		I. Results Only		PO#	
		STANDARD		II. Results + QC Summaries (LCS, DUP, MSMBD as required)		BILL TO	
		REQUESTED FAX DATE		III. Results + QC and Calibration Summaries			
		REQUESTED REPORT DATE		IV. Data Validation Report with Raw Data			
				V. Specialized Forms / Custom Report		SUBMISSION #	
				Edits Yes No		RECEIVED BY	
		24 hr	X 48 hr	5 day			
					X		

SAMPLE RECEIPT: CONDITION/COOLER TEMP.		CUSTODY SEALS: Y N	
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: <i>[Signature]</i> Printed Name: <i>[Name]</i> Firm: <i>[Firm]</i> Date/Time: <i>[Date/Time]</i>			

Cooler Receipt And Preservation Check Form

Project/Client BPL Submission Number 22-17425

Cooler received on 6/27/03 by OSP COURIER: CAS UPS FEDEX CD&L CLIENT
Velocity

- | | | | | |
|---|--|------------------------------|--|--------------------------------------|
| 1. Were custody seals on outside of cooler? | <input checked="" type="radio"/> YES | NO | | |
| 2. Were custody papers properly filled out (ink, signed, etc.)? | <input checked="" type="radio"/> YES | NO | | |
| 3. Did all bottles arrive in good condition (unbroken)? | <input checked="" type="radio"/> YES | NO | | |
| 4. Did any VOA vials have significant air bubbles? | YES | NO | | <input checked="" type="radio"/> N/A |
| 5. Were Ice or Ice packs present? | <input checked="" type="radio"/> YES | NO | | |
| 6. Where did the bottles originate? | <input checked="" type="radio"/> CAS/ROC | <input type="radio"/> CLIENT | | |
| 7. Temperature of cooler(s) upon receipt: | <u>4</u> | | | |

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 6/27/03 11:00

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 6/27/03 by: OSP

- | | | | | |
|--|--------------------------------------|----|--|--------------------------------------|
| 1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? | <input checked="" type="radio"/> YES | NO | | |
| 2. Did all bottle labels and tags agree with custody papers? | <input checked="" type="radio"/> YES | NO | | |
| 3. Were correct containers used for the tests indicated? | <input checked="" type="radio"/> YES | NO | | |
| 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated | | | | <input checked="" type="radio"/> N/A |

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH
 **If pH adjustment is required, use NaOH and/or H-SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2	

Other Comments: _____

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-11

Date Sampled : 06/26/03 Order #: 652398 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	87.00		Dry Weight
1,1-DICHLOROETHANE	5.0	490 U	UG/KG
1,1-DICHLOROETHENE	5.0	490 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TETRACHLOROETHENE	5.0	1600	UG/KG
1,1,1-TRICHLOROETHANE	5.0	390 J	UG/KG
TRICHLOROETHENE	5.0	490 U	UG/KG
VINYL CHLORIDE	5.0	490 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	112	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-12

Date Sampled : 06/26/03 Order #: 652399 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	95.00		Dry Weight
1,1-DICHLOROETHANE	5.0	530 U	UG/KG
1,1-DICHLOROETHENE	5.0	530 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TETRACHLOROETHENE	5.0	850	UG/KG
1,1,1-TRICHLOROETHANE	5.0	380 J	UG/KG
TRICHLOROETHENE	5.0	530 U	UG/KG
VINYL CHLORIDE	5.0	530 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	⊗
TOLUENE-D8	(83 - 117 %)	102	⊗
DIBROMOFLUOROMETHANE	(72 - 123 %)	121	⊗

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-13

Date Sampled : 06/26/03 Order #: 652400 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 91.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	74.00		Dry Weight
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	510	UG/KG
1,1,1-TRICHLOROETHANE	5.0	350 J	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	μg
TOLUENE-D8	(83 - 117 %)	100	μg
DIBROMOFLUOROMETHANE	(72 - 123 %)	129 *	μg

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-13

Date Sampled : 06/26/03 Order #: 652400 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 91.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/08/03		
ANALYTICAL DILUTION:	74.00		Dry Weight
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	640	UG/KG
1,1,1-TRICHLOROETHANE	5.0	350 J	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	114	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-14

Date Sampled : 06/26/03 Order #: 652401 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	83.00		Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	1100	UG/KG
1,1,1-TRICHLOROETHANE	5.0	270 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	118	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	132 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-14

Date Sampled : 06/26/03 Order #: 652401 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/08/03			
ANALYTICAL DILUTION: 83.00			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	1200	UG/KG
1,1,1-TRICHLOROETHANE	5.0	270 J	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	112	%
TOLUENE-D8	(83 - 117 %)	93	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	108	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-15

Date Sampled : 06/26/03 Order #: 652402 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 76.00			Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	430 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	114	μg
TOLUENE-D8	(83 - 117 %)	101	μg
DIBROMOFLUOROMETHANE	(72 - 123 %)	112	μg

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-9

Date Sampled : 06/26/03 Order #: 652403 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	76.00		Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	420 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	112	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	117	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-10

Date Sampled : 06/26/03 Order #: 652404 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 71.00			Dry Weight
1,1-DICHLOROETHANE	5.0	390 U	UG/KG
1,1-DICHLOROETHENE	5.0	390 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TETRACHLOROETHENE	5.0	390 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	390 U	UG/KG
TRICHLOROETHENE	5.0	390 U	UG/KG
VINYL CHLORIDE	5.0	390 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	109	%
TOLUENE-D8	(83 - 117 %)	104	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-11

Date Sampled : 06/26/03 Order #: 652405 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			Dry Weight
ANALYTICAL DILUTION: 72.00			
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	400 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	400 U	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE
TOLUENE-D8
DIBROMOFLUOROMETHANE

(68 - 128 %)
(83 - 117 %)
(72 - 123 %)

114
103
122

μg
μg
μg

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-D-12

Date Sampled : 06/26/03 Order #: 652406 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	72.00		Dry Weight
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	1100	UG/KG
1,1,1-TRICHLOROETHANE	5.0	400 U	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	113	ug
TOLUENE-D8	(83 - 117 %)	101	ug
DIBROMOFLUOROMETHANE	(72 - 123 %)	119	ug

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-13

Date Sampled : 06/26/03 Order #: 652408 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			Dry Weight
ANALYTICAL DILUTION: 81.00			
1,1-DICHLOROETHANE	5.0	450 U	UG/KG
1,1-DICHLOROETHENE	5.0	450 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TETRACHLOROETHENE	5.0	630	UG/KG
1,1,1-TRICHLOROETHANE	5.0	450 U	UG/KG
TRICHLOROETHENE	5.0	450 U	UG/KG
VINYL CHLORIDE	5.0	450 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	104	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-14

Date Sampled : 06/26/03 Order #: 652409 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/07/03		
ANALYTICAL DILUTION:	1480.00		Dry Weight
1,1-DICHLOROETHANE	5.0	8200 U	UG/KG
1,1-DICHLOROETHENE	5.0	8200 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	8200 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	8200 U	UG/KG
TETRACHLOROETHENE	5.0	190000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	8200 U	UG/KG
TRICHLOROETHENE	5.0	8200 U	UG/KG
VINYL CHLORIDE	5.0	8200 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-14

Date Sampled : 06/26/03 Order #: 652409 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 74.00			Dry Weight
1,1-DICHLOROETHANE	5.0	410 U	UG/KG
1,1-DICHLOROETHENE	5.0	410 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	410 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	410 U	UG/KG
TETRACHLOROETHENE	5.0	86000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	410 U	UG/KG
TRICHLOROETHENE	5.0	410 U	UG/KG
VINYL CHLORIDE	5.0	410 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	121	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 653038 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	106	df
TOLUENE-D8	(83 - 117 %)	114	df
DIBROMOFLUOROMETHANE	(72 - 123 %)	77	df

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 658251 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/07/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	92	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 658263 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/08/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	76	df
TOLUENE-D8	(83 - 117 %)	96	df
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	df

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 652409 Glasland, Bouck, & Lee, Inc.

Client ID: PX-B-14

Test: 826GB TCL

Analytical Units: UG/KG

Run Number : 92576

Percent Solid : 90.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLORCETHENE	82000	0	101000	123	111000	135*	9	30	43 - 123
TRICHLOROETHENE	82000	0	103000	126	122000	149*	17	30	44 - 127

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 653039 ANALYTICAL RUN #: 92576

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	92	70 - 130
1,1-DICHLOROETHENE	20.0	91	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	90	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	93	70 - 130
TETRACHLOROETHENE	20.0	98	70 - 130
1,1,1-TRICHLOROETHANE	20.0	99	70 - 130
TRICHLOROETHENE	20.0	94	70 - 130
VINYL CHLORIDE	20.0	90	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 658254 ANALYTICAL RUN #: 92576

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/07/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	90	70 - 130
1,1-DICHLOROETHENE	20.0	99	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	97	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	100	70 - 130
TETRACHLOROETHENE	20.0	97	70 - 130
1,1,1-TRICHLOROETHANE	20.0	96	70 - 130
TRICHLOROETHENE	20.0	100	70 - 130
VINYL CHLORIDE	20.0	101	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 658264 ANALYTICAL RUN #: 92576

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/08/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	96	70 - 130
1,1-DICHLOROETHENE	20.0	114	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	105	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	107	70 - 130
TETRACHLOROETHENE	20.0	124	70 - 130
1,1,1-TRICHLOROETHANE	20.0	101	70 - 130
TRICHLOROETHENE	20.0	107	70 - 130
VINYL CHLORIDE	20.0	112	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-11

Date Sampled : 06/26/03 Order #: 652398 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.1	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-12

Date Sampled : 06/26/03 Order #: 652399 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.9	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-13

Date Sampled : 06/26/03	Order #: 652400	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03	Submission #: R2317425	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	91.6	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-14

Date Sampled : 06/26/03 Order #: 652401 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.6	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-15

Date Sampled : 06/26/03	Order #: 652402	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03	Submission #: R2317425	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.3	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-9

Date Sampled : 06/26/03 Order #: 652403 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.4	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-D-10

Date Sampled : 06/26/03 Order #: 652404 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.9	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-11

Date Sampled : 06/26/03	Order #: 652405	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03	Submission #: R2317425	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.3	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-12

Date Sampled : 06/26/03 Order #: 652406 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.2	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-D-13

Date Sampled : 06/26/03 Order #: 652408 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.8	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-14

Date Sampled : 06/26/03 Order #: 652409 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.2	†	06/27/03	14:15	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 23, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT: DOVER-KIRKLAND 05203
Submission #: R2317498

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 07/07/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317498

BBL samples were collected on 07/01/03 and received at CAS on 07/02/03 in good condition. The cooler temperature was 4 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All blank spike recoveries were within QC limits.

All Surrogate Standard recoveries were within QC limits.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 23, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT: DOVER-KIRKLAND 05203
Submission #: R2317498

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 07/07/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

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COLUMBIA ANALYTICAL SERVICES

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Mark Wilson
Client Service Manager

Enc.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



Effective 6/12/2003

INORGANIC QUALIFIERS

C (Concentration) qualifier -

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

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Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE	REMARKS/ ALTERNATE DESCRIPTION
Project Manager		Report GC					
DOVIL R KIRKWOOD		05203					
EREG ALBRECHT							
B SOUTH RIVER RD							
CRANBURY, NJ 08512							
609-860-0590		609-860-2007					
Sample's Signature: <i>[Signature]</i>		Sample's Printed Name: E. GWARDZ					
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		
PX-E-9	653665	7/10/03	12:00	SOIL	3	GCMS VOAs D.C.P. GCMS SVoAs D.C.P. GC VOAs D.C.P. PESTICIDES PCBs METALS TOTAL METALS DISSOLVED SPL VCS SPL VCS SPL VCS	
PX-E-10	66	7/10/03	12:10	SOIL	3		
PX-E-11	67	7/10/03	12:05	SOIL	3		
PX-E-12	68	7/10/03	12:15	SOIL	3		
<p>SPECIAL INSTRUCTIONS/COMMENTS Metals</p> <p>TURNAROUND REQUIREMENTS <input type="checkbox"/> 24 hr <input checked="" type="checkbox"/> 48 hr <input type="checkbox"/> 5 day RUBB (BURCHARGES APPLY) STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE</p> <p>REPORT REQUIREMENTS <input type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCR, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data <input type="checkbox"/> V. Specialized Forms / Custom Report Edit: Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>INVOICE INFORMATION PO# BILL TO: SUBMISSION RECEIVED BY: <i>[Signature]</i> 7/23/03</p>							
<p>SAMPLE RECEIPT: CONDITION/COOLER TEMP. RELINQUISHED BY: <i>[Signature]</i> 7/9/03 Signature: <i>[Signature]</i> Printed Name: E. GWARDZ Firm: <i>[Signature]</i> Date/Time: 7/9/03 16:20</p>		<p>RECEIVED BY: Signature: <i>[Signature]</i> Printed Name: <i>[Signature]</i> Firm: <i>[Signature]</i> Date/Time: 7-2-03 11:40</p>		<p>CUSTODY SEALS: Y N RELINQUISHED BY:</p>		<p>RECEIVED BY: Signature: <i>[Signature]</i> Printed Name: <i>[Signature]</i> Firm: <i>[Signature]</i> Date/Time: 7-2-03 11:40</p>	

Cooler Receipt And Preservation Check Form

Project/Client BBL Submission Number R2-17498 Velocity

Cooler received on 7-2-03 by: AE COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? 4a CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: _____

Is the temperature within 0° - 6° C?: Yes No Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7-2-03 @ 11:47

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 7-2-03 by: AE

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH
 **If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments: _____

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKLAND 05203
Client Sample ID : PX-E-9

Date Sampled : 07/01/03 Order #: 653665 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/02/03 Submission #: R2317498 Percent Solid: 89.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/03			
ANALYTICAL DILUTION: 82.00			Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	460 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	460 U	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	111	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKLAND 05203
 Client Sample ID : PX-E-10

Date Sampled : 07/01/03 Order #: 653666 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/02/03 Submission #: R2317498 Percent Solid: 90.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/03			
ANALYTICAL DILUTION: 93.00			Dry Weight
1,1-DICHLOROETHANE	5.0	510 U	UG/KG
1,1-DICHLOROETHENE	5.0	510 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	510 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	510 U	UG/KG
TETRACHLOROETHENE	5.0	510 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	510 U	UG/KG
TRICHLOROETHENE	5.0	510 U	UG/KG
VINYL CHLORIDE	5.0	510 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	116	ug
TOLUENE-D8	(83 - 117 %)	93	ug
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	ug

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKLAND 05203
 Client Sample ID : PX-E-11

Date Sampled : 07/01/03 Order #: 653667 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/02/03 Submission #: R2317498 Percent Solid: 86.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/03/03		
ANALYTICAL DILUTION:	77.00		Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	14000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	%
TOLUENE-D8	(83 - 117 %)	93	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKLAND 05203
 Client Sample ID : PX-E-12

Date Sampled : 07/01/03 Order #: 653668 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/02/03 Submission #: R2317498 Percent Solid: 88.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/03			
ANALYTICAL DILUTION: 78.00			Dry Weight
1,1-DICHLOROETHANE	5.0	440 U	UG/KG
1,1-DICHLOROETHENE	5.0	440 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	440 U	UG/KG
TETRACHLOROETHENE	5.0	2000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	440 U	UG/KG
TRICHLOROETHENE	5.0	440 U	UG/KG
VINYL CHLORIDE	5.0	440 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	120	ug
TOLUENE-D8	(83 - 117 %)	96	ug
DIBROMOFLUOROMETHANE	(72 - 123 %)	32	ug

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 654370 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/03/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	85	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 654371 ANALYTICAL RUN #: 92755

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 07/03/2003			
ANALYTICAL DILUTION: 1.0			
1,1-DICHLOROETHANE	20.0	78	70 - 130
1,1-DICHLOROETHENE	20.0	81	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	81	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	80	70 - 130
TETRACHLOROETHENE	20.0	79	70 - 130
1,1,1-TRICHLOROETHANE	20.0	80	70 - 130
TRICHLOROETHENE	20.0	84	70 - 130
VINYL CHLORIDE	20.0	81	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKLAND 05203
Client Sample ID : PX-E-9

Date Sampled : 07/01/03 Order #: 653665 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/02/03 Submission #: R2317498

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.3	%	07/07/03	10:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKLAND 05203
Client Sample ID : PX-E-10

Date Sampled : 07/01/03 Order #: 653666 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/02/03 Submission #: R2317498

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.3	%	07/07/03	10:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKLAND 05203
Client Sample ID : PX-E-11

Date Sampled : 07/01/03 Order #: 653667 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/02/03 Submission #: R2317498

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	86.6	%	07/07/03	10:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKLAND 05203
Client Sample ID : PX-E-12

Date Sampled : 07/01/03 Order #: 653668 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/02/03 Submission #: R2317498

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	88.8	%	07/07/03	10:30	1.0



A FULL SERVICE ENVIRONMENTAL LABORATORY

July 23, 2003

Mr. Greg Albright
Blasland, Bouck, & Lee, Inc.
8 South River Road
Cranbury, NJ 08512-9502

PROJECT: DOVER-KIRKWOOD 05203
Submission #: R2317425

Dear Mr. Albright:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 07/01/03 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

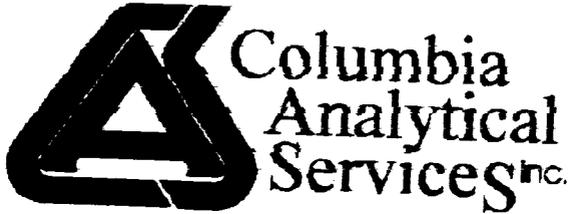
Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read "Mark Wilson", is written over the typed name.

Mark Wilson
Client Service Manager

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Lab Submission # : R2317425
Project Manager : Mark Wilson
Reported : 07/23/03

Report Contains a total of 40 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Reyn

CASE NARRATIVE

COMPANY: Blasland, Bouck & Lee, Inc.
Dover Kirkwood 05203
SUBMISSION #: R2317425

BBL samples were collected on 06/26/03 and received at CAS on 06/27/03 in good condition. The cooler temperature was 4 degrees C upon receipt. Samples were collected in ENCORE devices and analyzed as medium levels as per project report limit requirements.

VOLATILE ORGANICS

Soil samples were analyzed for a site list of volatile organics by EPA Method 8260B from SW-846.

All initial and continuing calibrations were compliant.

All matrix and blank spike recoveries were within QC limits except for the recovery of 1,1-Dichloroethene and Trichloroethene in the MSD of PX-D-14.

Surrogate Standard recoveries were outside QC limits in samples PX-C-13 and PX-C-14. Each of these samples was reanalyzed. Both sets of data have been reported.

All Internal Standard areas were within QC limits.

All samples were analyzed within the required holding times.

No other analytical or QC problems were encountered with these analyses.



Effective 6/12/2003

ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

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Effective 6/12/2003

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C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
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- Correlation coefficient for the MSA is less than 0.995.

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- "P" for ICP
- "A" for Flame AA
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- "PM" for ICP when Microwave Digestion is used
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- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
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 New Hampshire ID # 294100 A/B
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 West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

An Employee - Owned Company
www.casib.com

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475

PAGE 2 OF 2

SR #

CAS Contact

Project Name DOVER - KIRKWOOD		Project Number 05203	
Project Manager GREG ALBRKAIT		Report CC	
Company/Address BBL			
B SOUTH RIVER RD.			
SPRINGFIELD, NJ 08512			
Phone # 609-860-0530	FAX # 609-860-8007	Sampler's Printed Name K. GAWDZIK	
Sampler's Signature <i>[Signature]</i>		FOR OFFICE USE ONLY LAB ID 6052409	
CLIENT SAMPLE ID PX-D-14	SAMPLING DATE 6/26/03	TIME 11:50	MATRIX SOIL
SPECIAL INSTRUCTIONS/COMMENTS Metals			
ANALYSIS REQUESTED (Include Method Number and Container Preservative)			
PRESERVATIVE	NUMBER OF CONTAINERS	REMARKS/ALTERNATE DESCRIPTION	
GC VOA's D.C.P. GC VOA's D.C.P. GC VOA's D.C.P. GC VOA's D.C.P. PESTICIDES PCB's D.C.P. PCB's D.C.P. METALS TOTAL METALS, DISSOLVED (List in comments below) SSSL VOA's (List in comments below)	3	X	
PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other			
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day		REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCR, DJP, MR/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report	
RECEIVED BY <i>[Signature]</i> Printed Name Greg Albrkait Firm BBL Date/Time 6/27/03 11:10		RECEIVED BY <i>[Signature]</i> Printed Name Greg Albrkait Firm BBL Date/Time 6/27/03 11:10	

8000-1103-08

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-11

Date Sampled : 06/26/03 Order #: 652398 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	87.00		Dry Weight
1,1-DICHLOROETHANE	5.0	490 U	UG/KG
1,1-DICHLOROETHENE	5.0	490 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	490 U	UG/KG
TETRACHLOROETHENE	5.0	1600	UG/KG
1,1,1-TRICHLOROETHANE	5.0	390 J	UG/KG
TRICHLOROETHENE	5.0	490 U	UG/KG
VINYL CHLORIDE	5.0	490 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	112	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	91	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-12

Date Sampled : 06/26/03 Order #: 652399 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 95.00			Dry Weight
1,1-DICHLOROETHANE	5.0	530 U	UG/KG
1,1-DICHLOROETHENE	5.0	530 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	530 U	UG/KG
TETRACHLOROETHENE	5.0	850	UG/KG
1,1,1-TRICHLOROETHANE	5.0	380 J	UG/KG
TRICHLOROETHENE	5.0	530 U	UG/KG
VINYL CHLORIDE	5.0	530 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	121	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-13

Date Sampled : 06/26/03 Order #: 652400 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 91.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 74.00			Dry Weight
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	510	UG/KG
1,1,1-TRICHLOROETHANE	5.0	350 J	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	115	sp
TOLUENE-D8	(83 - 117 %)	100	sp
DIBROMOFLUOROMETHANE	(72 - 123 %)	129 *	sp

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-13

Date Sampled : 06/26/03 Order #: 652400 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 91.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/08/03		
ANALYTICAL DILUTION:	74.00		Dry Weight
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	640	UG/KG
1,1,1-TRICHLOROETHANE	5.0	350 J	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	114	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-14

Date Sampled : 06/26/03 Order #: 652401 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			Dry Weight
ANALYTICAL DILUTION: 83.00			
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	1100	UG/KG
1,1,1-TRICHLOROETHANE	5.0	270 J	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	118	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	132 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-14

Date Sampled : 06/26/03 Order #: 652401 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/08/03		
ANALYTICAL DILUTION:	83.00		Dry Weight
1,1-DICHLOROETHANE	5.0	460 U	UG/KG
1,1-DICHLOROETHENE	5.0	460 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	460 U	UG/KG
TETRACHLOROETHENE	5.0	1200	UG/KG
1,1,1-TRICHLOROETHANE	5.0	270 J	UG/KG
TRICHLOROETHENE	5.0	460 U	UG/KG
VINYL CHLORIDE	5.0	460 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	112	AP
TOLUENE-D8	(83 - 117 %)	93	AP
DIBROMOFLUOROMETHANE	(72 - 123 %)	108	AP

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-15

Date Sampled : 06/26/03 Order #: 652402 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 89.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 76.00			Dry Weight
1,1-DICHLOROETHANE	5.0	430 U	UG/KG
1,1-DICHLOROETHENE	5.0	430 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	430 U	UG/KG
TETRACHLOROETHENE	5.0	430 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	430 U	UG/KG
TRICHLOROETHENE	5.0	430 U	UG/KG
VINYL CHLORIDE	5.0	430 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	μg
TOLUENE-D8	(83 - 117 %)	101	μg
DIBROMOFLUOROMETHANE	(72 - 123 %)	112	μg

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-9

Date Sampled : 06/26/03 Order #: 652403 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 76.00			Dry Weight
1,1-DICHLOROETHANE	5.0	420 U	UG/KG
1,1-DICHLOROETHENE	5.0	420 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	420 U	UG/KG
TETRACHLOROETHENE	5.0	420 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	420 U	UG/KG
TRICHLOROETHENE	5.0	420 U	UG/KG
VINYL CHLORIDE	5.0	420 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	112	μg
TOLUENE-D8	(83 - 117 %)	103	μg
DIBROMOFLUOROMETHANE	(72 - 123 %)	117	μg

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-10

Date Sampled : 06/26/03 Order #: 652404 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	71.00		Dry Weight
1,1-DICHLOROETHANE	5.0	390 U	UG/KG
1,1-DICHLOROETHENE	5.0	390 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	390 U	UG/KG
TETRACHLOROETHENE	5.0	390 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	390 U	UG/KG
TRICHLOROETHENE	5.0	390 U	UG/KG
VINYL CHLORIDE	5.0	390 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	109	MP
TOLUENE-D8	(83 - 117 %)	104	MP
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	MP

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-11

Date Sampled : 06/26/03 Order #: 652405 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 72.00			Dry Weight
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	400 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	400 U	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	122	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-12

Date Sampled : 06/26/03 Order #: 652406 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			Dry Weight
ANALYTICAL DILUTION: 72.00			
1,1-DICHLOROETHANE	5.0	400 U	UG/KG
1,1-DICHLOROETHENE	5.0	400 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	400 U	UG/KG
TETRACHLOROETHENE	5.0	1100	UG/KG
1,1,1-TRICHLOROETHANE	5.0	400 U	UG/KG
TRICHLOROETHENE	5.0	400 U	UG/KG
VINYL CHLORIDE	5.0	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	113	df
TOLUENE-D8	(83 - 117 %)	101	df
DIBROMOFLUOROMETHANE	(72 - 123 %)	119	df

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
 METHOD 8260B TCL
 Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
 Project Reference: DOVER-KIRKWOOD 05203
 Client Sample ID : PX-D-13

Date Sampled : 06/26/03 Order #: 652408 Sample Matrix: SOIL/SEDIMENT
 Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	81.00		Dry Weight
1,1-DICHLOROETHANE	5.0	450 U	UG/KG
1,1-DICHLOROETHENE	5.0	450 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	450 U	UG/KG
TETRACHLOROETHENE	5.0	630	UG/KG
1,1,1-TRICHLOROETHANE	5.0	450 U	UG/KG
TRICHLOROETHENE	5.0	450 U	UG/KG
VINYL CHLORIDE	5.0	450 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	104	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-14

Date Sampled : 06/26/03 Order #: 652409 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/07/03			
ANALYTICAL DILUTION: 1480.00			Dry Weight
1,1-DICHLOROETHANE	5.0	8200 U	UG/KG
1,1-DICHLOROETHENE	5.0	8200 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	8200 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	8200 U	UG/KG
TETRACHLOROETHENE	5.0	190000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	8200 U	UG/KG
TRICHLOROETHENE	5.0	8200 U	UG/KG
VINYL CHLORIDE	5.0	8200 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-14

Date Sampled : 06/26/03 Order #: 652409 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425 Percent Solid: 90.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 74.00			Dry Weight
1,1-DICHLOROETHANE	5.0	410 U	UG/KG
1,1-DICHLOROETHENE	5.0	410 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	410 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	410 U	UG/KG
TETRACHLOROETHENE	5.0	86000 E	UG/KG
1,1,1-TRICHLOROETHANE	5.0	410 U	UG/KG
TRICHLOROETHENE	5.0	410 U	UG/KG
VINYL CHLORIDE	5.0	410 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE
TOLUENE-D8
DIBROMOFLUOROMETHANE

(68 - 128 %)
(83 - 117 %)
(72 - 123 %)

114
101
121

%
%
%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 653038 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/27/03			
ANALYTICAL DILUTION: 100.00			Dry Weight
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	%
TOLUENE-D8	(83 - 117 %)	114	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	77	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/23/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 658251 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/07/03			Dry Weight
ANALYTICAL DILUTION: 100.00			
1,1-DICHLOROETHANE	5.0	500 U	UG/KG
1,1-DICHLOROETHENE	5.0	500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/KG
TETRACHLOROETHENE	5.0	500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/KG
TRICHLOROETHENE	5.0	500 U	UG/KG
VINYL CHLORIDE	5.0	500 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(68 - 128 %)	114	%
TOLUENE-D8	(83 - 117 %)	92	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	111	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 652409 Blasland, Bouck, & Lee, Inc.

Client ID: PX-D-14

Test: 8260E TCL

Analytical Units: UG/KG

Run Number : 92576

Percent Solid : 90.2

ANALYTE	SPIKE		MATRIX SPIKE		MATRIX SPIKE DUF.			QC LIMITS	
	ADDED	CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,1-DICHLOROETHENE	82000	0	101000	123	111000	135*	9	30	43 - 123
TRICHLOROETHENE	82000	0	103000	126	122000	149*	17	30	44 - 127

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 653039

ANALYTICAL RUN #: 92576

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 06/27/03		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	92	70 - 130
1,1-DICHLOROETHENE	20.0	91	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	90	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	93	70 - 130
TETRACHLOROETHENE	20.0	98	70 - 130
1,1,1-TRICHLOROETHANE	20.0	99	70 - 130
TRICHLOROETHENE	20.0	94	70 - 130
VINYL CHLORIDE	20.0	90	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 658254 ANALYTICAL RUN #: 92576

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/07/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	90	70 - 130
1,1-DICHLOROETHENE	20.0	99	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	97	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	100	70 - 130
TETRACHLOROETHENE	20.0	97	70 - 130
1,1,1-TRICHLOROETHANE	20.0	96	70 - 130
TRICHLOROETHENE	20.0	100	70 - 130
VINYL CHLORIDE	20.0	101	70 - 130

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 658264 ANALYTICAL RUN #: 92576

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 07/08/2003		
ANALYTICAL DILUTION:	1.0		
1,1-DICHLOROETHANE	20.0	96	70 - 130
1,1-DICHLOROETHENE	20.0	114	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	105	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	107	70 - 130
TETRACHLOROETHENE	20.0	124	70 - 130
1,1,1-TRICHLOROETHANE	20.0	101	70 - 130
TRICHLOROETHENE	20.0	107	70 - 130
VINYL CHLORIDE	20.0	112	70 - 130

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-12

Date Sampled : 06/26/03 Order #: 652199 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.9	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-13

Date Sampled : 06/26/03 Order #: 652400 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	91.6	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-14

Date Sampled : 06/26/03 Order #: 652401 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.6	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-C-15

Date Sampled : 06/26/03 Order #: 652402 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	89.3	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-9

Date Sampled : 06/26/03	Order #: 652403	Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03	Submission #: R2317425	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.4	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-10

Date Sampled : 06/26/03 Order #: 652404 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.9	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-11

Date Sampled : 06/26/03 Order #: 652405 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DELSTICE
PERCENT SOLIDS	160.0	1.0	90.3	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : FX-D-12

Date Sampled : 06/26/03 Order #: 652406 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.2	%	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-13

Date Sampled : 06/26/03 Order #: 652408 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.8	†	06/27/03	14:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/23/03

Blasland, Bouck, & Lee, Inc.
Project Reference: DOVER-KIRKWOOD 05203
Client Sample ID : PX-D-14

Date Sampled : 06/26/03 Order #: 652409 Sample Matrix: SOIL/SEDIMENT
Date Received: 06/27/03 Submission #: R2317425

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.0	1.0	90.2	%	06/27/03	14:15	1.0

APPENDIX D

Bills of Lading – Non Hazardous Disposal

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 691-6433
FAX (716) 691-6165

302631-

0000302631 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK# 150	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LAKE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4888	SHIPPER: UNIVERSAL INSTRUMENTS 29-201 INDUSTRIAL DRIVE BIRKWOOD, NY 13804 SINGHINGTON	
PHONE#	13804	
NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN WEIGHT OUT BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Swartz* PRINT NAME KENNETH SWARTZ
(BB) as Agent for Universal Instruments
DRIVER SIGNATURE *Daniel White* PRINT NAME Daniel White

SPECIAL INSTRUCTIONS:
Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL:		Solid waste being transported to mass only solid waste or waste containing animal and vegetable matter, rubbish, trash, dross, ashes and non-toxic sludge and other waste materials which is not a reactive volatile, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other local charges.
CONSIGNEE PRINT NAME		
CONSIGNEE SIGN HERE (NO INITIALS)		
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	RECEIVED BY: <i>[Signature]</i> DATE: _____ TIME: _____ AM _____ PM	

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

302632

Earthwatch

WASTE SYSTEMS, INC.

4958 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

0000302532 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
EWS# 6756			
TRUCK#	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-1000	SHIPPER: UNIVERSAL INSTRUMENTS 29-201 INDUSTRIAL DRIVE BERINGWOOD, NY BINGHAMTON 13904
PHONE#	

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Gwozdz* PRINT NAME KENNETH GWOZDZ
 (BU) as agent for Universal Instruments
 DRIVER SIGNATURE *Gerald Sh...* PRINT NAME Gerald Sh...

SPECIAL INSTRUCTIONS:
 HOURS are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL:
 CONSIGNEE PRINT NAME _____
 CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
 FIRM: ONTARIO COUNTY LANDFILL DATE 7-1-03
 BY K Snyder TIME _____ AM _____ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ash, and non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.
 The transporter herein named agrees to hold harmless and is indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest.
 This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6185

302633

0000302633 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER <i>Riccelli Enterprises</i>	DATE	TIME IN / OUT	
	<i>7/1/03</i>		
	EWS# 6756		
TRUCK# <i>32</i>	TRAILER# <i>402</i>		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-6000	SHIPPER: UNIVERSAL INSTRUMENTS <i>29-201 INDUSTRIAL DRIVE</i> <i>BERKWOOD, NY</i> <i>316-3400001</i> 13904
PHONE#	

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN- WEIGHT OUT BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Ewozdz* PRINT NAME KENNETH EWODZ
(BE) as agent for *Universal Instruments*
DRIVER SIGNATURE *Tom Becker* 1078 PRINT NAME TOM BECKER

SPECIAL INSTRUCTIONS:
Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL		Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive waste, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
CONSIGNEE PRINT NAME _____ CONSIGNEE SIGN HERE (NO INITIALS) _____		
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	FIRM: _____ DATE _____ BY _____ TIME _____ QAM _____ OPM _____	

Earthwatch

WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

302634

0000302634 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
EWS# 6756			
TRUCK#	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000	SHIPPER: UNIVERSAL INSTRUMENTS 29-301 INDUSTRIAL DRIVE KIRKWOOD, NY <i>Empire State</i>
PHONE#	13504

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Engard* PRINT NAME KENNETH ENGARD
 (BP) as agent for Universal Instruments
 DRIVER SIGNATURE *Charles E Dean* PRINT NAME Charles E DEAN

SPECIAL INSTRUCTIONS:
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL:		Solid waste being transported is intended to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
CONSIGNEE PRINT NAME _____		
CONSIGNEE SIGN HERE (NO INITIALS) _____		
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	ONTARIO COUNTY FIRM: <u>Landfill</u> DATE: <u>7-1-03</u> BY: <u>H. Snyder</u> TIME: _____ JAM _____ OPM _____	

Earthwatch
 WASTE SYSTEMS, INC.

4950 Genesee Street
 Suite 170
 Buffalo, NY 14225
 (716) 681-6433
 FAX (716) 681-6165

302635

0000302635 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK#	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000 PHONE#	SHIPPER UNIVERSAL INSTRUMENTS 21 201 INDUSTRIAL DRIVE TIRKWOOD, NY ^{PRICK} 516-272-2222 159 #4
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NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Swozdt* PRINT NAME KENNETH SWOZDT
 (881) as agent for Universal Instruments
 DRIVER SIGNATURE *Gerald R. Walsh* PRINT NAME Gerald R. Walsh

SPECIAL INSTRUCTIONS:
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL CONSIGNEE PRINT NAME _____ CONSIGNEE SIGN HERE (NO INITIALS) _____		Solid waste being interrelated to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	FIRM _____ DATE _____ BY <u><i>[Signature]</i></u> TIME _____ AM _____ PM	

Earthwatch

WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6765

302636

0000302636 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK# <u>31</u>	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LAKE ROAD; ROUTE 5 & 28 STANLEY, NY 14561 585-396-4000	SHIPPER: UNIVERSAL INSTRUMENTS 29-291 INDUSTRIAL DRIVE BIRKWOOD, NY ^{PARK} 306 HARTMAN 13704
PHONE#	

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE Kenneth Gwozdz PRINT NAME KENNETH GWOZDZ
 (BBU) as agent for Universal Instruments
 DRIVER SIGNATURE James Musacchio PRINT NAME JAMES MUSACCHIO

SPECIAL INSTRUCTIONS:
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL		Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive, volatile, highly flammable, explosive, toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other local charges.
CONSIGNEE PRINT NAME _____	CONSIGNEE SIGN HERE (NO INITIALS) _____	
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	FIRM: _____ DATE _____ BY _____ TIME _____ AM / PM _____	

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-8433
FAX (716) 681-8165

302637

0000302637 Load #:

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK# 30	TRAILER#		

CONSIGNEE ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 28 STANLEY, NY 14561 585-396-4000 PHONE#	SHIPPER UNIVERSAL INSTRUMENTS 29 201 INDUSTRIAL DRIVE BIRKENHEAD, NY PARK BINGHAMTON 13904
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NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE Kenneth Gwozd PRINT NAME KENNETH GWOZD
 (BA) as agent for Universal Instruments
 DRIVER SIGNATURE William Williams PRINT NAME WILLIAM WILLIAMS

SPECIAL INSTRUCTIONS:
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL:		Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive material, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
CONSIGNEE PRINT NAME		
CONSIGNEE SIGN HERE (NO INITIALS)		
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	FIRM: <u> </u> DATE: <u> </u> BY: <u> </u> TIME: <u> </u> AM <u> </u> PM	

302640

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

0000302640 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
EWS# 6756			
TRUCK#	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000	SHIPPER UNIVERSAL INSTRUMENTS 29-201 INDUSTRIAL DRIVE KIRKWOOD, NY ^{Park} BINGHAMTON 13904
PHONE#	

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE <i>Kenneth Gwozdz</i>	PRINT NAME <u>KENNETH GWOZDZ</u>
(BB4) as agent for Universal Instruments	
DRIVER SIGNATURE <i>Gerald R. Welsh</i>	PRINT NAME <u>Gerald R. Welsh</u>

SPECIAL INSTRUCTIONS:
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL: CONSIGNEE PRINT NAME _____ CONSIGNEE SIGN HERE _____ (NO INITIALS)		Solid waste being inter-related to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive, volatile, highly flammable, explosive, toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	FIRM: <u>LANDFILL</u> DATE: <u>7-2-03</u> BY: <u>Her Snyder</u> TIME: _____ AM _____ PM	

302642

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

0000302642 Load #:

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
EWS# 6756			
TRUCK#	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000	SHIPPER UNIVERSAL INSTRUMENTS 29 281 INDUSTRIAL DRIVE KIRKWOOD, NY PAK BINGHAMTON 13904
--	--

PHONE#

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Dwozdz* PRINT NAME KENNETH DWOZDZ
 (864) as agent for Universal Instruments
 DRIVER SIGNATURE *William Williams* PRINT NAME WILLIAM WILLIAMS

SPECIAL INSTRUCTIONS:
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL: CONSIGNEE PRINT NAME _____ CONSIGNEE SIGN HERE _____ (NO INITIALS)	Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	FIRM: <u>ONTARIO COUNTY</u> <u>LANDFILL</u> DATE <u>7-2-03</u> BY <u>Ken Snyder</u> TIME _____ OAM _____ OPM _____

302643

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

0000302643 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
		EWS# 6756	
TRUCK#	TRAILER#		

CONSIGNEE: ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000 PHONE#	SHIPPER UNIVERSAL INSTRUMENTS 29 201 INDUSTRIAL DRIVE KIRKWOOD, NY BINGHAMTON
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NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE *Kenneth Cwozdz* PRINT NAME KENNETH CWOZDZ
 (362) a) agent for Universal Instruments
 DRIVER SIGNATURE *James Musacchio* PRINT NAME JAMES MUSACCHIO

SPECIAL INSTRUCTIONS
 Landfill hours are 7:00 am to 3:00 pm Monday thru Friday (last truck in at 2:45 pm).

FOR APPROVAL: CONSIGNEE PRINT NAME _____ CONSIGNEE SIGN HERE (NO INITIALS) _____		Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest. This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.
RECEIVED ABOVE MATERIAL IN GOOD CONDITION	ONTARIO COUNTY FIRM: <u>LANDFILL</u> DATE <u>7-2-03</u> BY <u><i>Ken Snyder</i></u> TIME _____ AM _____ PM	

Transaction #

Bill #

Earthwatch Inc

4900

Buffalo

Transaction # 13 - Landfill

Charge

Destination Landfill

Material Contaminated Soil In

Reference:

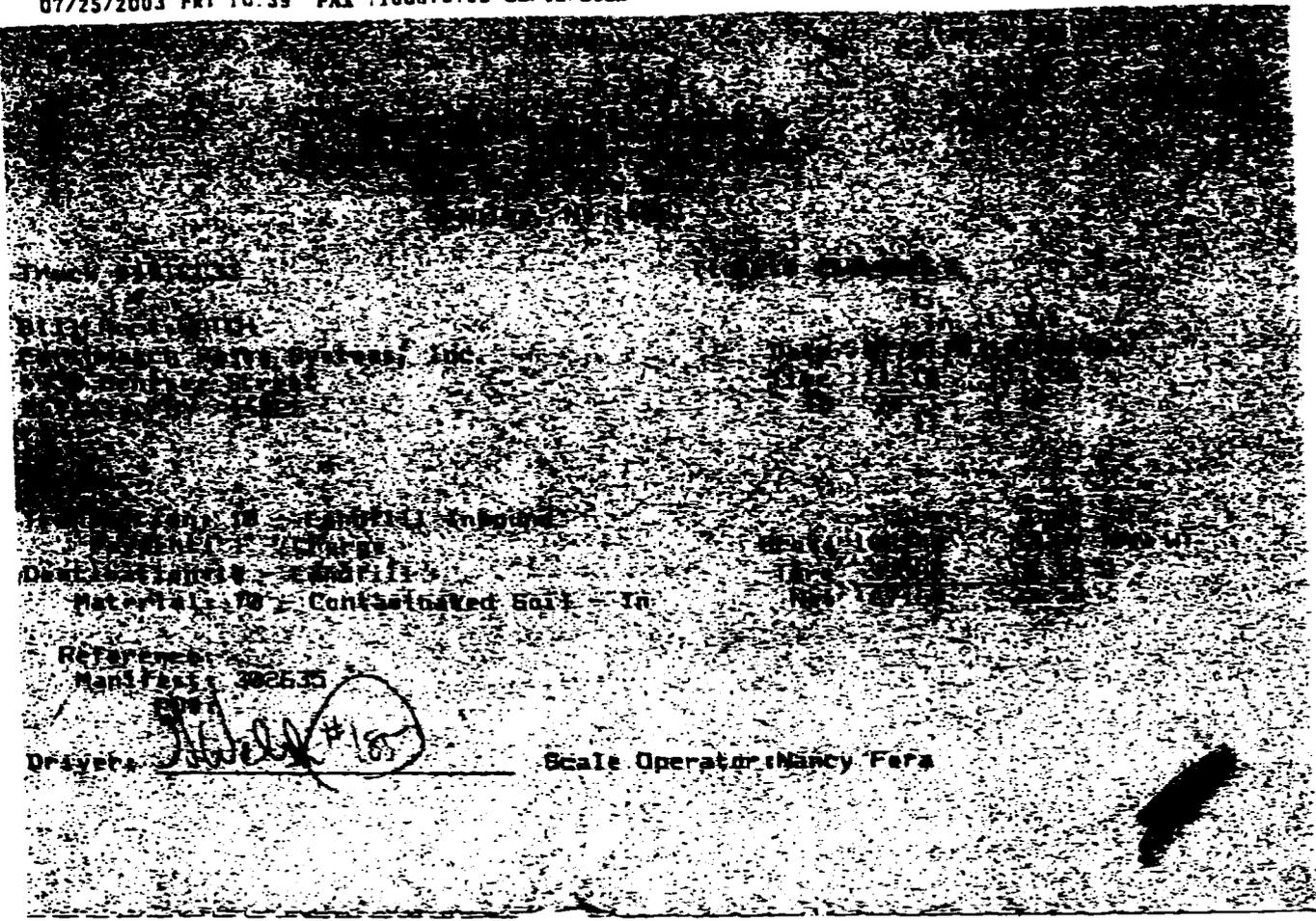
Manifest 300637

Delivered

[Handwritten signature]

Scale Operator Nancy Fera

[Handwritten initials]



Reference
Manifest # 302535
Scale Operator Nancy Fera

Handwritten signature and circled number "15"

Truck #111131

Bill Beckwith

Earthwatch Systems Inc
4934 Highway 20 West
Buffalo, NY 14224

Transaction: 10 7 100000 Invoice
Payment: 1 Charge
Destination: Landfill
Material: 72 Contaminated Soil In

Reference:

Manifest: 302535

PKI:

Drivers:

J. Merando

Scale Operator: Nancy Fera

135

Truck

Bill

Earl

495

Buff

Trans

Dest

Mat

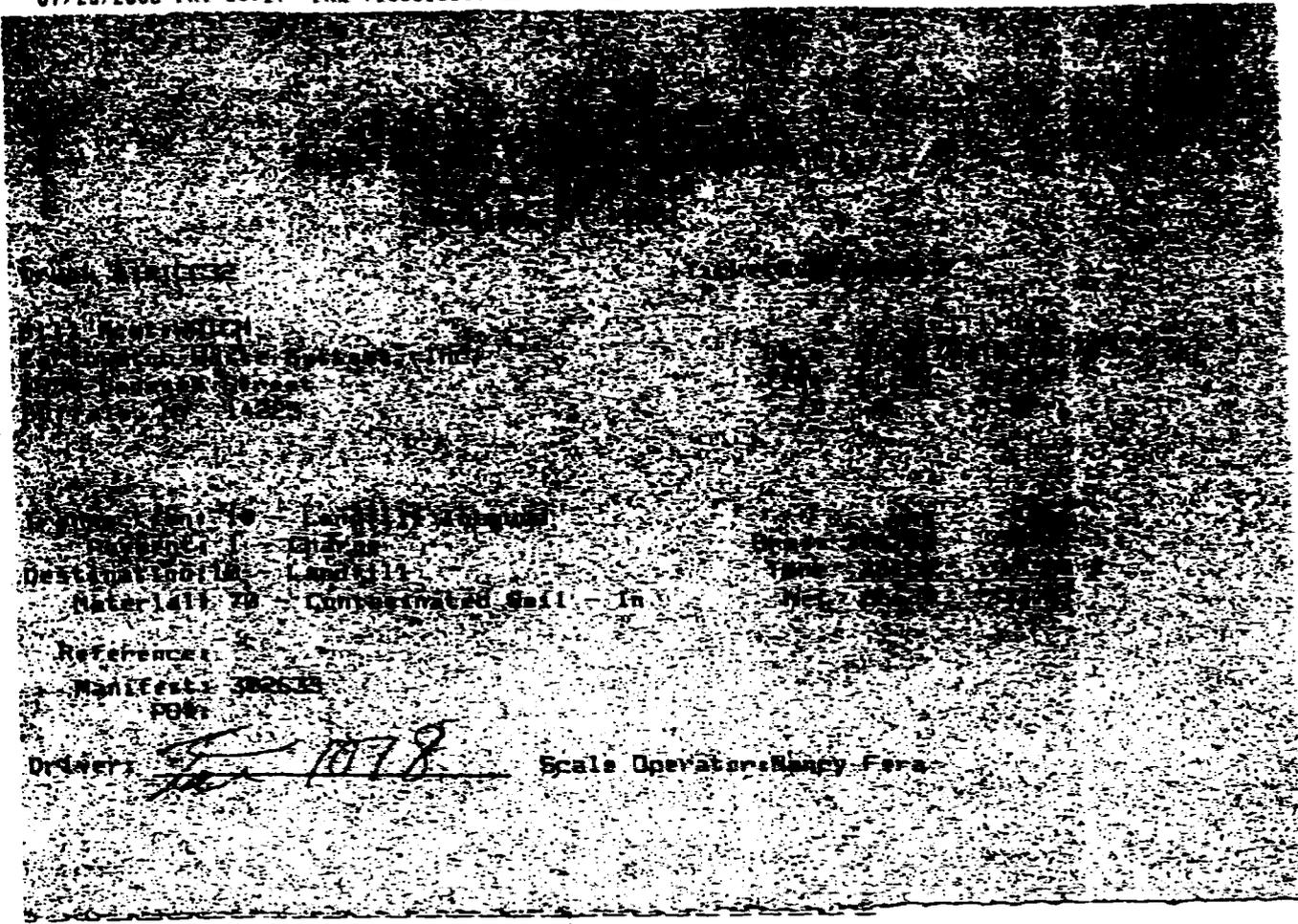
Refer

Man

Drivers

[Handwritten signature]

Scale Operator: *[Handwritten name]*



From: [illegible]

To: [illegible]

Subject: [illegible]

Origin: [illegible]

Destination: Landfill

Material: 70 Concentrated Soil - In

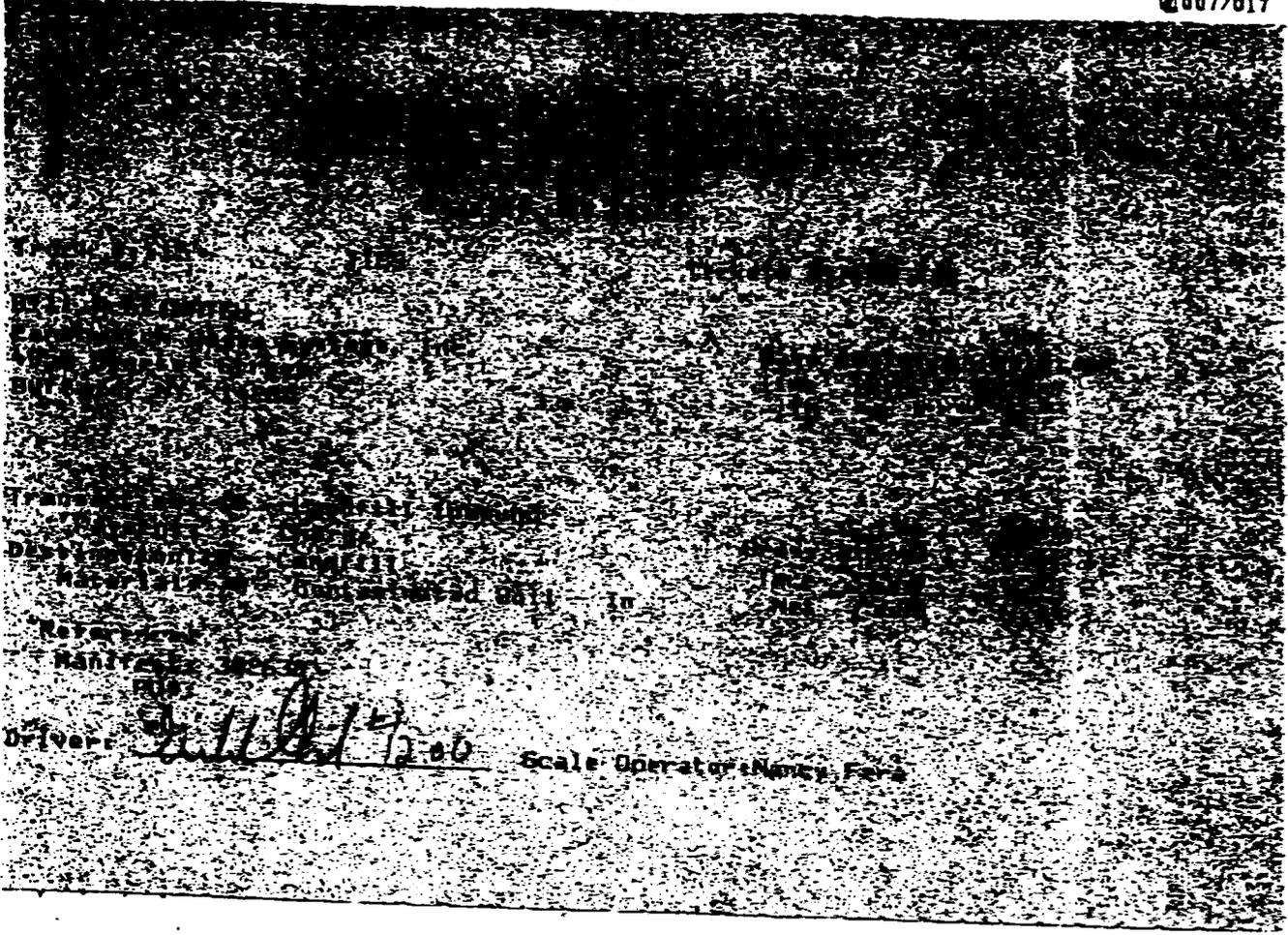
Reference:

Manifest: 300615
PO#

Driver:

[Handwritten signature]

Scale Operator: [illegible]



Driver: Julia 12:00 Scale Operator: Nancy Fara

JUL 30 03 01:38p

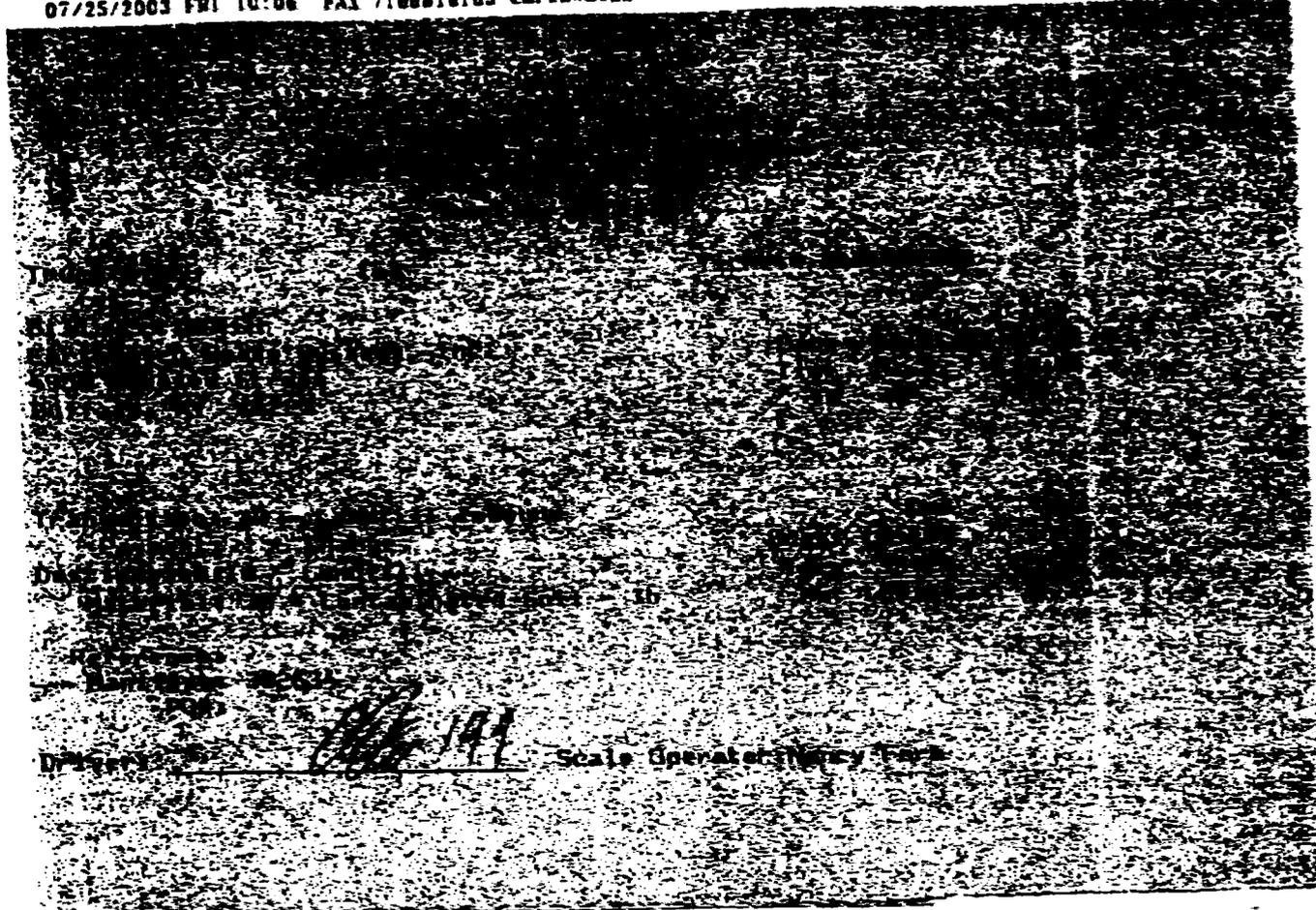
EISCO NJ

732 969 9599

P.11

07/25/2003 FRI 10:06 FAX 7166816165 earlbeatch

005/017



Ontario County
 Recycling and Landfill Management
 3550 Post Farm Road
 Stanley, NY 14561

Truck # 04145

Truck # 130

Bill AcctWATCH
 Earthwatch Waste Systems, Inc.
 4950 Genesee Street
 Buffalo, NY 14225

Date 07/02/03 107/02/03
 Time 07:09 107:31
 ID K5 1 K5

Transaction 10 - Landfill Inbound
 Payment: 1 - Charge
 Destination 10 - Landfill
 Material: 70 - Contaminated Soil - In

Lbs Tons
 Gross 100920 54.46 1
 Tare 33960 19.98 2
 Net 66960 34.48

Reference: 302642
 Manifest: 137
 PO#: _____

Driver: _____ Scale Operator: Ken Snyder

Ontario County
Recycling and Landfill Management
3895 Post Farm Road
Genesee, NY 14561

Ticket# 84146

Truck #131-401

DLJ RECYCLING
Earthwatch Waste Systems, Inc.
4950 Genesee Street
Buffalo, NY 14225

In | Out
Date 07/02/03 07/02/03
Time 07:11 10:32
ID KG 1 KG

Transaction 10 - Landfill Inbound
Payment 1 - Charge
Destination 10 - Landfill
Material: 70 - Contaminated Soil - In

Lbs | Tons
Gross 102740 42.57
Tare ~~33280~~ 13.54
Net 61660 24.03

References
Manifest # 3025-13

JM 138

Driver: Scale Operator: Ken Snyder

Ontario County
Recycling and Landfill Management
3555 Post Farm Road
Stanley, NY 14661

Ticket # 34147

Truck # 3

Bill Acct WATCH
Earthwater Waste Systems, Inc.
4950 Genesee Street
Buffalo, NY 14225

Date 07/22/03 In | Out
Time 07:18 107:33
ID KG 1 KG

Transaction 10 - Landfill Inbound
Payment 1 - Charge
Destination 10 - Landfill
Material 70 - Contaminated Soil - In

Lbs
Gross 104560
Tare 33720
Net 64840
Tons
52.20 1
19.96 2
32.42

Reference:

Manifest # 100644

PL

Jerry Walsh # 185

Driver: *Jerry Walsh* # 185 scale operator Ken Snyder

APPENDIX E

Waste Manifests – Hazardous Waste Disposal

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS



CVMI

NYB9752958

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Hazardous Waste Number 588

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-9300 and the NYSD Department of Environmental Conservation (518) 467-7382

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD101012121611214	Manifest Doc. No. 20031	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address UNIVERSAL INSTRUMENTS CORP P.O. BOX 825 ATTN: MARK GIALANELLA BINGHAMTON NY 13902				A. NYB9752958	
4. Generator's Telephone Number (607) 722-3900-779-7820 mm				B. Generator's ID 29 INDUSTRIAL PARK DR KIRKWOOD NY 13795	
5. Transporter 1 (Company Name) Tonawanda Tank Transport		6. US EPA ID Number NYD9107644801		C. State Transporter's ID AC-25369	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Telephone (716) 873-9700	
9. Designated Facility Name and Site Address CVMI CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107		10. US EPA ID Number NYD1049813161719		E. State Transporter's ID	
				F. Transporter's Telephone ()	
				G. State Facility ID	
				H. Facility Telephone () 716 754-8231	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. RC, HAZARDOUS WASTE, SOLID, H.O.S., 9, WA3077, III, (TETRACHLOROETHENE)			12. Containers Number Type 00100	13. Total Quantity 44000	14. Unit EST P
					L. Waste No. EPA DO39 STATE
					EPA STATE
					EPA STATE
					EPA STATE
J. Additional Descriptors for Materials Listed Above a. CW9582 SOIL W/ TETRACHLOROETHENE			K. Handling Codes for Wastes Listed Above a. <input checked="" type="checkbox"/> L c. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/>		
15. Special Handling Instructions and Additional Information CHENTREC Emergency Response Number (800)424-9300 WMI Contract SR # 1697286-2 81574950					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Mark Gialanella		Signature <i>Mark Gialanella</i>		Mo. Day Year 07.11.03	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name DAVID GOODENOTE		Signature <i>David Goodenote</i>		Mo. Day Year 07.11.03	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space Actual Rec'd 38980P					
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Nyan Pechowski		Signature <i>Nyan Pechowski</i>		Mo. Day Year 07.16.03	

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS



CVMI

NYB9752985

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Revised Waste Manifest 5/89

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-9300 and the NYS Department of Environmental Conservation (516) 487-7382

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD002226124	Manifest Doc. No. 20034	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address UNIVERSAL INSTRUMENTS CORP P.O. BOX 825 ATTN: MARK GIALANELLA BINGHAMTON NY 13902		4. Generator's Telephone Number (607) 732-5900 779-7820 MA		A. Generator's ID NYB9752985	B. Generator's Address 29 INDUSTRIAL PARK DR KIRKWOOD NY 13795
5. Transporter 1 (Company Name) Tonawanda Tank Transport		E. US EPA ID Number NYD907644801		C. State Transporter's ID RC-25367-MY	D. Transporter's Telephone (716) 873-9183
7. Transporter 2 (Company Name)		8. US EPA ID Number		E. State Transporter's ID	F. Transporter's Telephone ()
9. Designated Facility Name and Site Address CVH CHEMICAL SERVICES, L.L.C. 1550 BALHER RD. MODEL CITY NY 14107		10. US EPA ID Number NYD104918161719		G. State Facility ID	H. Facility Telephone () 716 754-8231
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) 2. RQ, HAZARDOUS WASTE, SOLID, H.O.S., 9, NA3077, III, (TETRACHLOROETHENE)			12. Containers Number Type 001 DT	13. Total Quantity 6000	14. UTL WYVl Waste No. EST D039 STATE
J. Additional Descriptions for Materials listed Above a. CU9582 SOIL W/ TETRACHLOROETHENE			K. Handling Codes for Wastes Listed Above a. <input checked="" type="checkbox"/> L c. <input type="checkbox"/> b. <input type="checkbox"/> d. <input type="checkbox"/>		
15. Special Handling Instructions and Additional Information CHEMREC Emergency Response Number (800)424-9300 WHI Contract SR # 687286-5 81574878					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Mark Gialanella		Signature <i>Mark Gialanella</i>		Mo. Day Year 07/11/03	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name STEPHAN KRIVANICKI		Signature <i>Stephan Krivanicki</i>		Mo. Day Year 07/11/03	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space Act. Rec. 12760P					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19					
Printed/Typed Name Michelle Fleck		Signature <i>Michelle Fleck</i>		Mo. Day Year 07/14/03	

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS



CVM

NYB9752976

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

Replaces Form Number 509

4-8802 and the NYS Department of Environmental Conservation (619) 487-7362

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD100222261124	Manifest Doc. No. 20033	2. Page 1 of 1	Information within heavy bold line is not required by Federal Law.
3. Generator's Name and Mailing Address UNIVERSAL INSTRUMENTS CORP P.O. BOX 825 ATTN: MARK GIALANELLA BINGHAMTON NY 13902			A. Manifest No. NYB9752976		
4. Generator's Telephone Number (607) 792-5900-779-7820 <i>MAS</i>			B. Generator's ID 29 INDUSTRIAL PARK DR KIRKWOOD NY 13795		
5. Transporter 1 (Company Name) Tonawanda Tank Transport		6. US EPA ID Number NYD9107644801		C. State Transporter's ID AC-25376-4	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Telephone (716) 873-976	
9. Designated Facility Name and Site Address CVM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			10. US EPA ID Number NYD1014918366719		E. State Facility ID
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) RG, HAZARDOUS WASTE, SOLID, W.O.S, 9, RA3077, III, (TETRACHLOROETHENE)			12. Containers Number Type 0 0 1 0 0	3. Total Quantity 42000 P	14. Unit Wt/Vol EST
I. Waste No. EPA D039 STATE					
J. Additional Descriptions for Materials Listed Above CV9582 SOIL W/ TETRACHLOROETHENE			K. Handling (Codes for Wastes Listed Above) a. <input checked="" type="checkbox"/> L <input type="checkbox"/> c. <input type="checkbox"/>		
15. Special Handling Instructions and Additional Information CHENTREC Emergency Response Number (800)424-9300 WRI Contract SR # <u>0872864</u> 81574852					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, labeled, and stored in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR If I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Mark Gialanella		Signature <i>Mark Gialanella</i>		Mo. Day Year 07/1/03	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name William J. Durham		Signature <i>William J. Durham</i>		Mo. Day Year 07/1/03	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space Act. Rec 40000 P					
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Michelle Fleck					
Signature <i>Michelle Fleck</i>		Mo. Day Year 07/1/03			

In case of emergency or spill immediately call the National Response Center (800) 424-9300

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS



CVMI

NYB9752967

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Number 3487)

Please type or print. Do not staple.

1-8002 and the NYS Department of Environmental Conservation (618) 457-7362

GENERATOR
TRANSPORTER
In case of emergency or spill immediately call the National Response Center (800) 424-9300

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD002226124	Manifest Doc No. 20032	2. Page 1 of Information within heavy bold line is not required by Federal Law	
3. Generator's Name and Mailing Address UNIVERSAL INSTRUMENTS CORP P.O. BOX 825 ATTN: MARK GIALANELLA BINGHAMTON NY 13902			A. Generator's ID NYB9752967		
4. Generator's Telephone Number (607) 725-9007 779-7820 MM			B. Generator's ID 29 INDUSTRIAL PARK DR KIRKWOOD NY 13795		
5. Transporter 1 (Company Name) Tonawanda Tank Transport		E. US EPA ID Number NYD907644801		C. State Transporter's ID AC-25362 NY	
7. Transporter 2 (Company Name)		B. US EPA ID Number		D. Transporter's Telephone (716) 873-9733	
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			10. US EPA ID Number NYD10498136679		E. State Transporter's ID F. Transporter's Telephone G. State Facility ID H. Facility Telephone 716 754-8231
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol
a. RG, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (TETRACHLOROETHENE)		001	DT	40.000	P
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information CHEMTREC Emergency Response Number (800)424-9300 VMI Contract SR # 167286-3 81574870		K. Handling Codes for Wastes Listed Above a. <input checked="" type="checkbox"/> L <input type="checkbox"/> c <input type="checkbox"/> b. <input type="checkbox"/> <input type="checkbox"/> d <input type="checkbox"/>			
18. GENERATOR'S CERTIFICATION: (I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.)					
Printed/Typed Name Mark Gialanella		Signature Mark Gialanella		Mo. Day Year 07.11.03	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name DARIA ATTEA		Signature Daria Attea		Mo. Day Year 07.11.03	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space Act. Rec. 44040P					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Michelle Fleck		Signature Michelle Fleck		Mo. Day Year 07.14.03	

111533

50
Cubic Yards



Transporter Log
CWMI Chemical Services, Inc.
Madison City, NY

81574870

AC25362 NY

Receipt #

Tanker License Plate # and State

Service Req. #

Profile #

Permit #

Transporter Name

Traction/Traction/Off #

Driver's Name

Generator

Scheduled Arrival:

Actual Arrival:

Date

Time

Date

Time In

Time Out

Arrived during Blackout? Y / N

Notified DEC? Y / N

Leaker

Permit Violation

Placarding/Veh. I.D. Violation

Other (specify)

Bulk to Landfill

No wet line

Flashed

Stabilization

Drums

Tanker

Transformers

Receiving: MF

MF

Initials

Comments

Laboratory

Time In

Time Out

Initials

Comments

Stabilization

Time In

Time Out

Initials

Gross Wt.

Comments

Landfill

Time In

Time Out

Initials

Comments

Other

Time In

Time Out

Initials

Comments

Aqueous Treatment

Time In

Time Out

Signature (NO initials)

Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Failure to obey instructions of facility personnel

Failure to wear appropriate PPE

Unsafe driving practices

Other (specify)

Leaving truck unattended

Failure to display overweight flag

Improper lashing or dewatering

Overweight upon arrival

Security Guard Initials:

(Indicating receipt of Waste Eject pass, if necessary)

Driver's Comments:

22 02

44040P

Receiving: MF
Initials: MF
Comments:

CS

NY -

BB+L

10/02/00

111516

50
Cubic Yards



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

8514858
Receipt # AC25376 NY
6872585-4 CWA9582 9A-080
Service Rec. # Profile # Permit #
Tona-Tank 68/624
Tractor/Trailer/Well-off #
Driver's Name Jeff G. Generator Univ. Ins.

07-26 2003 18 00
07-26 2003 18 00
07-26 2003 18 00

40000 P

Scheduled Arrival: _____
Actual Arrival: _____
Date Time Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Leaker Permit Violation Placarding/Veh. I.D. Violation

Other (specify) _____

Built to Landfill No wet line Flashed Stabilization Drums Tanker Transformers

Receiving: MF
Initials Comments

Laboratory
Time In Time Out Initials Comments

Stabilization
Time In Time Out Initials Gross Wt. Comments

Landfill
Time In Time Out Initials Comments

Other
Time In Time Out Initials Comments

Aqueous Treatment
Time In Time Out Signature (NO Initials) Comments

Facility Personnel (please initial)

- _____ Smoking or eating in prohibited areas
- _____ Leaving truck unattended
- _____ Failure to obey instructions of facility personnel
- _____ Failure to display overweight tag
- _____ Failure to wear appropriate PPE
- _____ Improper tarping or dunnage
- _____ Unsafe driving practices
- _____ Overweight upon arrival
- _____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of West Bay pass, if necessary)

Driver's Comments: _____

111542

50
Cubic Yards

27



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

81574878

AC25367 NY

Receipt #

Trailer License Plate # and State

Service Reg. #

Profile #

Parcel #

Transporter Name

Tractor/Trailer/Full off #

Driver's Name

Generator

Scheduled Arrival:

Actual Arrival:

Date

9/7/03

Date

Time In

Time Out

Arrived during Blackout? Y / N

Notified DEC? Y / N

Leaker

Permit Violation

Placarding/Veh. I.D. Violation

Other (specify)

Bulk to Landfill

No wet line

Flatbed

Stabilization

Drums

Tanker

Transformers

Laboratory

Time In

Time Out

Initials

Comments

Stabilization

Time In

Time Out

Initials

Gross Wt.

Comments

Landfill

Time In

Time Out

Initials

Comments

Other

Time In

Time Out

Initials

Comments

Aqueous Treatment

Time In

Time Out

Signature (NO Initials)

Comments

Facility Personnel (please initial)

Smoking or eating in prohibited areas

Leaving traps unattended

Failure to obey instructions of facility personnel

Failure to display overweight tag

Failure to wear appropriate PPE

Improper loading or dunnage

Unsafe driving practices

Overweight upon arrival

Other (specify)

Security Guard Initials:

(Indicating receipt of West Bay pass, if necessary)

Driver's Comments

Receiving: MF
Initials: Comments:

12760P

6.38

GS

BRK
LAWRENCE

111613

50
Cubic Yards

31



Transporter Log
CWM Chemical Services, Inc.
Model City, NY

815749.50
Receipt #
AC 25399 NY
Trailer License Plate # and State
CW9562 9A060
Service Req. #
Profile #
Parcel #
Transporter Name: Tom Tank
Driver's Name: Jeff G
Tractor/Trailer/Unit #: 65/631
Generator: Univ Ins

08-06
07-10-07
03-50
07-10-07
38980P
19.49

Scheduled Arrival: _____
Actual Arrival: _____
Date _____ Time _____
Date _____ Time In _____ Time Out _____

Arrived during Blackout? Y / N Notified DEC? Y / N

- Leaker Permit Violation Placarding/Veh. I.D. Violation
- Other (specify) _____
- Built to Landfill No wet line Flatbed Stabilization Drums Tanker Transformers

Receiving: [Signature]
Initials Comments

Laboratory	Time In	Time Out	Initials	Comments	
Stabilization	Time In	Time Out	Initials	Gross Wt	Comments
Landfill	Time In	Time Out	Initials	Comments	
Other	Time In	Time Out	Initials	Comments	
Aqueous Treatment	Time In	Time Out	Signature (SIQ Initials)	Comments	

Facility Personnel (please initial)

- _____ Smoking or eating in prohibited areas
- _____ Leaving track unattended
- _____ Failure to obey instructions of facility personnel
- _____ Failure to display overweight tag
- _____ Failure to wear appropriate PPE
- _____ Improper tarping or dewater
- _____ Unsafe driving practices
- _____ Overweight upon arrival
- _____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments: _____

P.O. BOX H
 BUFFALO, NY 14217
 (716) 873-9703

LEBANON, OH 45036
 (513) 398-6997

07/11/03

PICK UP		DELIVERY	
SHIPPER	NAME UNIVERSAL INSTRUMENTS	CONSIGNEE	NAME CHEMICAL WASTE MANAGEMENT
	STREET 29 INDUSTRIAL PARK DR		STREET 1550 BALMER RD
	CITY STATE ZIP CODE KIRKWOOD NY.		CITY STATE ZIP CODE MODEL CITY NY.
	CONTACT NAME		CONTACT NAME
	SCHEDULED TIME 08:00 AM		SCHEDULED TIME
ADDITIONAL INFORMATION LOAD 22 TON MINIMUM SCALE AT EXIT 3		ADDITIONAL INFORMATION	

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER NYE975295X	PRODUCT CODE
LOAD NUMBER 10307048	TRACTOR NUMBER 24	TRAILER NUMBER 631	DRIVER'S NAME GOODNOTE

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
TANK (S/S) (R/L) VAC DUMP VAN ROLL-OFF FLATBED	HAZ WASTE SOLID	

PICK UP	DELIVERY
ARRIVAL TIME _____ PM RELEASE TIME _____ PM	ARRIVAL TIME _____ AM RELEASE TIME _____ PM
TRAILER EMPTY UPON ARRIVAL <input type="checkbox"/> YES <input type="checkbox"/> NO	TRAILER EMPTY UPON DEPARTURE <input type="checkbox"/> YES <input type="checkbox"/> NO
DIP MEASUREMENT (Trucks Only) _____	DIP MEASUREMENT (Trucks Only) _____
COMMENTS: (EXPLAIN ALL DELAYS)	COMMENTS: (EXPLAIN ALL DELAYS)
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.	I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.
<i>Mark Goodnote</i> SHIPPER'S SIGNATURE	CONSIGNEE'S SIGNATURE

OFFICE USE ONLY

DRIVER	TRIP _____	CONSIGNEE	DRIVER'S # _____
	TOLLS _____		FREIGHT _____
	DEMURRAGE _____		TOLLS _____
	LAYOVER _____		DEMURRAGE _____
	VAC _____		MISC. _____
	MISC _____		TOTAL _____

WHITE-BILLING COPY YELLOW-TON TANK COPY PINK-ACCOUNTING COPY GREEN-DRIVER COPY BLUE-TSOF COPY GOLD-GENERATOR COPY

SHIPPER	PICK UP		DELIVERY	
	NAME UNIVERSAL INSTRUMENTS		NAME CHEMICAL WASTE MANAGEMENT	
	STREET 29 INDUSTRIAL PARK DR		STREET 1550 BALMER RD	
	CITY KIRKWOOD NY.	STATE ZIP CODE	CITY MODEL CITY NY.	STATE ZIP CODE
	CONTACT NAME		CONTACT NAME	
SCHEDULED TIME 08:30 AM		SCHEDULED TIME		
ADDITIONAL INFORMATION LOAD 22 TON MINIMUM SCALE AT EXIT 3		ADDITIONAL INFORMATION		

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER NYA 9952967	PRODUCT CODE
LOAD NUMBER 10307052	TRACTOR NUMBER	TRAILER NUMBER 628	DRIVER'S NAME ATTEA

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
TANK (S/S) (R/L) VAC DUMP VAN ROLL-OFF FLATBED	AS	

PICK UP		DELIVERY	
ARRIVAL TIME	RELEASE TIME	DATE	
TRAILER EMPTY UPON ARRIVAL (If not, explain below)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRAILER EMPTY UPON DEPARTURE (If not, explain below)	<input type="checkbox"/> YES <input type="checkbox"/> NO
DIP MEASUREMENT (Tankers Only)	INCHES	COMMENTS: (EXPLAIN ALL DELAYS)	
PIPE TOLLS DELETED BY DRIVER		LOADED	
THE UNDERSIGNED CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.		THE UNDERSIGNED CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.	
SHIPPER SIGNATURE Mark S. [Signature]		DRIVER SIGNATURE ATTEA	

OFFICE USE ONLY	
TRIP _____ TOLLS _____ DEMURRAGE _____ LAYOVER _____ VAC _____ MISC _____ TOTAL _____	DRIVERS # _____ FREIGHT _____ TOLLS _____ DEMURRAGE _____ MISC _____ TOTAL _____

P.O. BOX H
 BUFFALO, NY 14217
 (716) 873-9703

LEBANON, OH 45036
 (513) 398-6997

07/11/03

SHIPPER	PICK UP		DELIVERY	
	NAME	UNIVERSAL INSTRUMENTS	NAME	G, W. M.
	STREET	99 INDUSTRIAL PARK DR	STREET	1550 BALMER, RY
	CITY	KIRKWOOD, NY	CITY	MODEL CITY NY
	CONTACT NAME		CONTACT NAME	
	SCHEDULED TIME	9:00 AM	SCHEDULED TIME	
ADDITIONAL INFORMATION		ADDITIONAL INFORMATION		
PURCHASE ORDER NO.		WORK ORDER NUMBER	INVOICE NUMBER	PRODUCT CODE
LOAD NUMBER		TRACTOR NUMBER	TRAILER NUMBER	DRIVER'S NAME

1030704	43	NYB9751985	3077	KRUPNICK
TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION			
TANK (S/S) (R/L) VAC <input checked="" type="checkbox"/> DUMP VAN ROLL-OFF FLATBED				

PICK UP	ARRIVAL TIME	9:00	RELEASE TIME	10:00
TRAILER EMPTY UPON ARRIVAL	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
DIP MEASUREMENT (Tankers Only)	INCHES			
COMMENTS: (EXPLAIN ALL DELAYS)	put 1/2			
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.				
SHIPPER SIGNATURE				

DELIVERY	ARRIVAL TIME	RELEASE TIME	DATE
TRAILER EMPTY UPON DEPARTURE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
COMMENTS: (EXPLAIN ALL DELAYS)			
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.			
DRIVER SIGNATURE			

OFFICE USE ONLY

TRIP	DRIVERS #	FREIGHT
TOLLS		TOLLS
DEMURRAGE		DEMURRAGE
LAYOVER		MISC.
VAC		TOTAL
MISC	TOTAL	

WHITE-BILLING COPY YELLOW-TON TANK COPY PINK-ACCOUNTING COPY GREEN-DRIVER COPY BLUE-TSDF COPY GOLD-GENERATOR COPY



State of New Jersey
 Department of Environmental Protection
 Hazardous Waste Regulation Program
 Manifest Section
 P.O. Box 414, Trenton, NJ 08625-0414



4121027

Form Approved OMB No. 2050-0039

Please type or print in block letters (Form designed for use on elite (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No. NY100012226112427027	2 Page 1 of 1	Information in the shaded areas is not required by Federal law	
3 Generator's Name and Mailing Address UNIVERSAL INSTRUMENTS PO BOX 825 BIRKHAMPTON NY 13902		A State Manifest Document Number NJA 4121027		B State Generator ID / Gen Site Address 99 INDUSTRIAL PARK DR BIRKHAMPTON NY	
4 Generator's Phone 607 779-7820	5 Transporter 1 Company Name UNIVERSAL INDUSTRIAL SERV CO-NT		C State Trans ID / UICEP 1927		Decal No. 08361
6 US EPA ID Number NJ100012207046		D Transporter's Phone 732 969 4		E State Trans ID / UICEP	
7 Transporter 2 Company Name		F Transporter's Phone		G State Facility ID	
9 Designated Facility Name and Site Address CYCIE Chem Inc. 517 SOUTH FIRST ST ELIZABETH NJ 07206		H Facility's Phone 908 355-5		I	
11 US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)		12 Containers No.	13 Total Quantity	14 Unit (Liters)	15 Waste No.
a. X DR HAZARDOUS WASTE LIQUID NO 9, NA 3082 16 II 039 002 DA000756 D03					
b.					
c.					
d.					
J Additional Descriptions for Materials Listed Above 4 TETRACHLORO ETHERNE + WATER 100%		K Handling Codes for Wastes Listed Above 501			
15 Special Handling Instructions and Additional Information (A) ID-1 ENV EMERGENCY CALL 732-969-4888 ERG 171		9334a			
16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree that is determined to be economically practicable and that I have used the applicable management strategies and practices to minimize the quantity of waste that is present and future threat to human health and the environment. OR, if I am a small quantity generator, I have used appropriate methods to minimize the waste generated and select the best waste management management available to me and that I can afford.					
17 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: Mark Gialanella Signature: Mark Gialanella Month/Day: 07/25					
18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: Alex Chapike Signature: Alex Chapike Month/Day: 07/25					
19 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest, except as noted in item 10. Printed/Typed Name: Alicia Gibson Signature: Alicia Gibson Month/Day: 07/25					

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-7172

GENERATOR
TRANSPORTER
ACILITY

APPENDIX F

Deed Notice

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT, made the ___ day of _____ 2004, by the BROOME COUNTY INDUSTRIAL DEVELOPMENT AGENCY, a public benefit corporation organized and existing under the laws of the State of New York, and having its principal place of business at the Edwin L. Crawford County Office Building, 44 Hawley Street, Binghamton, New York 13902.

WHEREAS, the BROOME COUNTY INDUSTRIAL DEVELOPMENT AGENCY is the owner of the Universal Instruments/ Dover Electronics inactive hazardous waste disposal site which is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 704026, located at 29 Industrial Park Drive, Kirkwood, Broome County, New York, which is part of lands conveyed to the Broome County Industrial Development Agency by deed dated January 22, 1997 and recorded in the Broome County Clerk's Office on February 5, 1997 in Book 1859 of Deeds at Page 1446 and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Property is the subject of a consent order issued by the New York State Department of Environmental Conservation to Universal Instruments Corporation, dated January 19, 2001; and

WHEREAS, the New York State Department of Environmental Conservation set forth a remedy to eliminate or mitigate all significant threats to the environment presented by hazardous waste disposal at the Site in a Record of Decision ("ROD") dated March 30, 2000, and such ROD or the Work Plan for the implementation of the ROD required that the Property be subject to restrictive covenants.

NOW, THEREFORE, BROOME COUNTY INDUSTRIAL DEVELOPMENT AGENCY, for itself and its successors and/or assigns, covenants

First, the Property subject to this Declaration of Covenants and Restrictions is described in Appendix "A" attached to this Declaration and made a part hereof.

Second, unless prior written approval by the New York State Department of Environmental Conservation or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, no person shall engage in any activity that will, or that reasonably is anticipated to, prevent or interfere significantly with any proposed, ongoing or completed program at the Property or that will, or is reasonably foreseeable to, expose the public health or the environment to a significantly increased threat of harm or damage.

Third, the portion of the Property consisting of the area of the 1978, 1982, and 1984 building additions at the Property, part of the area of the original building (1973), an exterior area outside the front employees entrance (#1 on Figure B-1), an exterior area adjacent to catch basin

CB-2044 (#2 on Figure B-1), an area east of the east-side transformer pad (#3 on Figure B-1), an exterior area of the southeast parking area (#7 on Figure B-1), and three exterior areas along the eastern property boundary adjacent to County Route 181 [Industrial Park Drive] (#4, #5, and #6 on Figure B-1); hereinafter referred to as the "Restricted Building Property", is shown on the map attached hereto and made a part hereof in Appendix "B"

Fourth, the owner or operator of the Restricted Building Property shall either maintain the building covering the Restricted Building Property or, after obtaining written approval of the Relevant Agency, excavate and remove the inaccessible soils under the Restricted Building Property which are contaminated with hazardous wastes or constituents thereof in accordance with regulatory standards and criteria.

Fifth, the owner of the Restricted Building Property shall prohibit the Restricted Building Property from ever being used for purposes other than for industrial or commercial use excluding use for daycare, child care and medical care without the express written waiver of such prohibition by the Relevant Agency.

Sixth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.

Seventh, the owner of the Property shall continue in full force and effect any institutional and engineering controls the Department required Respondent to put into place and maintain unless the owner first obtains permission to discontinue such controls from the Relevant Agency.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property and shall provide that the owner, and its successors and assigns, consent to the enforcement by the Relevant Agency of this Declaration and hereby covenant not to contest the authority of the Department to seek enforcement.

Ninth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

[acknowledgment]

APPENDIX A

This Indenture

made January 22, 19 97

Between UNIVERSAL INSTRUMENTS CORP., a Delaware Corporation, having an office and place of business at 90 Bevier Street, Binghamton, New York 13901

party of the first part, and

BROOME COUNTY INDUSTRIAL DEVELOPMENT AGENCY, P.O. Box 995, Binghamton, New York 13902

party of the second part.

Witnesseth that the party of the first part, in consideration of ONE Dollars (\$1.00)

lawful money of the United States, and other good and valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever, ~~ALL~~

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Kirkwood, County of Broome and State of New York, bounded and described as follows: Commencing at the intersection of the centerline of Barlow Road, extended southeasterly, with the former southeasterly boundary of Colesville Road (County Road 52); thence along said former highway boundary, the following three courses: 1) N 30-46-37 E, a distance of 37 feet to a point; 2) N 49-46-49 E, a distance of 144.00 feet to a point, and 3) N 79-38-34 E, a distance of 192.84 feet to the Point of Beginning; thence along the southeasterly boundary of Colesville Road, the following seven (7) courses: 1) N 00-00-00 E, a distance of 9.73 feet to a point; 2) N 77-28-44 E, a distance of 137.07 feet to a point; 3) N 66-44-45 E, a distance of 87.32 feet to a point; 4) N 77-45-24 E, a distance of 225.63 feet to a point; 5) N 56-03-01 E, a distance of 257.84 feet to a concrete mon.; 6) S 43-15-39 E, a distance of 1.64 feet to a concrete mon.; 7) N 55-57-51 E, a distance of 126.63 feet to a point; thence S 31-15-18 E, along the southwesterly boundary of Industrial Park Drive (County Road 181) a distance of 534.29 feet to a point; thence S 45-49-11 W, along the northwesterly boundary of Industrial Park Drive, a distance of 552.84 feet to a point; thence N 51-25-41 W, along the northeasterly boundary of Industrial Park Drive, a distance of 812.49 feet to the Point of Beginning.

Containing 9.5887 acres of land as surveyed by Warren D. Jennings, L.S., August 10, 1995 and shown on a map dated September 5, 1995 (file no. 4269).

The above mentioned parcel is subject to a 30 foot Town of Kirkwood permanent easement for sanitary, sewer and water main.

Being the same premises conveyed to the Grantor herein by Warranty Deed from Dovatron, Inc., dated November 15, 1995 and recorded November 29, 1995 in the Broome County Clerk's Office in Liber 1859 of Deeds at page 1448.

Together with the appurtenances and all the estate and rights of the party of the first part in and to said premises.

For here and in hold the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

And the party of the first part covenants as follows:

First, That the party of the second part shall quietly enjoy the said premises;

Second, That the party of the first part will forever warrant the title to said premises.

Third, the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

In WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

In Presence of

UNIVERSAL INSTRUMENTS CORP.

L.S.

By:

Patrick J. Gillard
Vice President, Finance

L.S.

L.S.

L.S.

STATE OF NEW YORK, COUNTY OF _____

STATE OF NEW YORK, COUNTY OF _____

On _____ 19__ before me personally came

On _____ 19__ before me personally came

to me known to be the individual described as and who executed the foregoing instrument, and acknowledged that he executed the same.

to me known to be the individual described as and who executed the foregoing instrument, and acknowledged that he executed the same.

STATE OF NEW YORK, COUNTY OF BROOME

STATE OF NEW YORK, COUNTY OF _____

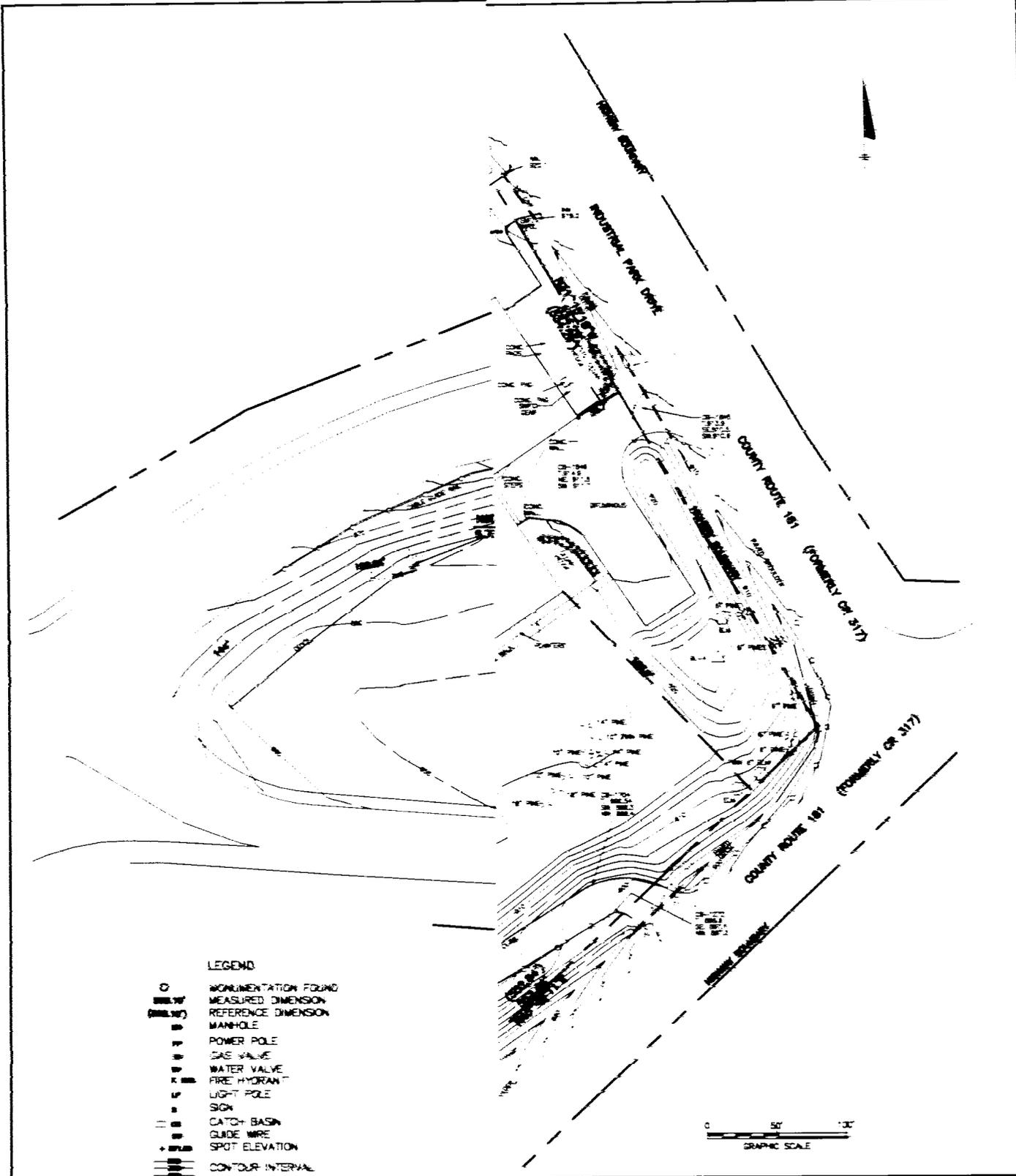
On January 22, 19__ before me personally came PATRICK J. GILLARD to me known, who, being by me duly sworn, did depose and say that he deposed under oath.

On _____ 19__ before me personally came _____ to me known, who, being by me duly sworn, did depose and say that he deposed under oath.

deponent J. P., Finance of Universal Instruments Corp. the corporation described in and which executed the foregoing instrument; deponent knows the seal of said corporation; that the seal affixed to said instrument is such as appears and; that it was so affixed by order of the Board of Directors of said corporation; deponent signed deponent's name in the order.

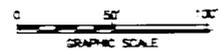
that he knows _____ to be the individual described as and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the time here subscribed his name as witness thereto.

Notary Public



LEGEND

- MONUMENTATION FOUND
- MEASURED DIMENSION
- (---) REFERENCE DIMENSION
- MANHOLE
- ⊙ POWER POLE
- ⊙ GAS VALVE
- ⊙ WATER VALVE
- ⊙ FIRE HYDRANT
- ⊙ LIGHT POLE
- ⊙ SIGN
- ⊙ CATCH BASIN
- ⊙ GUIDE WIRE
- + SPOT ELEVATION
- CONTOUR INTERVAL



SOURCE:
 SNEDECOR PROVIDED BY HARRIS ENGINEERING, P.C.
 BIRCHMOUNT, NY, @ A SCALE OF 1"=50'

UNIVERSAL INSTRUMENT CORPORATION
 KIRKWOOD, NEW JERSEY
 REMEDIAL ACTION REPORT

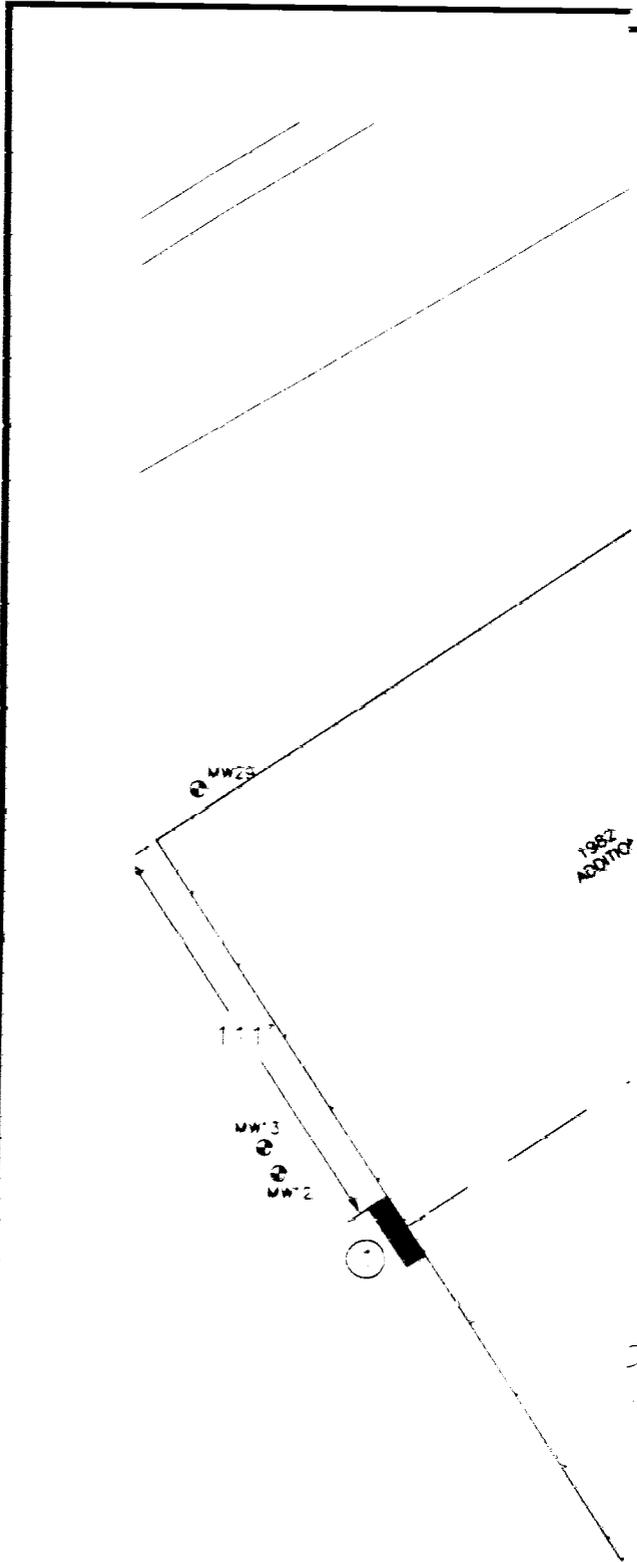
PROPERTY BOUNDARY MAP

BBL
 BASILIANO, BOYCH & LEE, P.C.
 ENGINEERS, SCIENTISTS, ARCHITECTS

FIGURE
A-1

X: 05203003.DWG
 L: REF=OFF
 P: PAGESET/PLT-DL
 03/31/04 CRA-BS-TJ
 05203007/05203007.DWG

APPENDIX B



LEGEND

-  EXISTING MONITORING WELL
-  BUILDING DEED NOTICE AREAS
-  EXTERIOR DEED NOTICE AREAS

DEPTH TO PCE-AFFECTED SOIL

-  4 FEET
-  6 FEET
-  8 FEET
-  8 FEET
-  5 FEET
-  7 FEET
-  3 FEET

SOURCE:

FIGURE 2 OF LETTER REPORT "UNIVERSAL INSTRUMENTS CORPORATION, KIRKWOOD, BROOME COUNTY, NEW YORK: DOVER ELECTRONICS SITE", GANNETT FLEMING, INC., NOVEMBER 9, 2000.

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW JERSEY
REMEDIAL CERTIFICATION REPORT

DEED NOTICE AREAS



BBL
BLASIANO BOUCH & LEE, INC.
REGISTERED PROFESSIONAL ENGINEERS

FIGURE
B-1

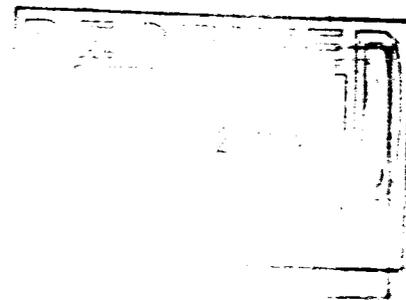
APPENDIX G

Indoor Air Laboratory Analytical Reports

August 2003

September 2003

January 2004



Client:	BLASLAND, BOUCK & LEE, INC.	Date of Report:	08/22/03
Address:	8 South River Road Cranbury, NJ 08512	Date Received:	08/06/03
Contact:	Mr. Greg Albright	CAS Project No:	P2301571
Client Project ID:	DOVER - KIRKWOOD/05203.009	Purchase Order:	Verbal
		NJ Certification ID:	CA009

Six (6) Stainless Steel Summa Canisters labeled:

“OFFICE AREA #1”
“ELECTRICAL AREA”

“OFFICE AREA #2”
“CAFETERIA”

“A/C AREA”
“BACKGROUND”

The samples were received at the laboratory under chain of custody on August 6, 2003. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

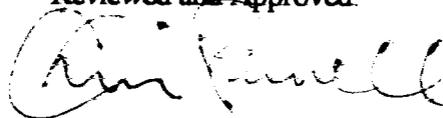
The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_X-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

Reviewed and Approved:



Svetlana Walsh
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:



Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

Page
1 of 20



CAS Project No: P2301571

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **OFFICE AREA #1**
 Client Project ID: **DOVER - KIRKWOOD/05203.009**

CAS Project ID: P2301571
 CAS Sample ID: P2301571-001

Test Code: EPA TO-15
 Instrument ID: HP5973/Tekmar AUTOCAN Elite
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC00463

Date Collected: 8/5/03
 Date Received: 8/6/03
 Date(s) Analyzed: 8/18/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.0 Pf 1 = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.2	ND	0.60	
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
74-83-9	Bromomethane	ND	1.2	ND	0.32	
75-00-3	Chloroethane	ND	1.2	ND	0.47	
67-64-1	Acetone	34	6.2	14	2.6	
75-69-4	Trichlorofluoromethane	5.5	1.2	0.98	0.22	
75-35-4	1,1-Dichloroethene	ND	1.2	ND	0.31	
75-09-2	Methylene chloride	ND	1.2	ND	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.2	ND	0.16	L
75-15-0	Carbon Disulfide	ND	1.2	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	1.2	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.2	ND	0.34	
108-05-4	Vinyl Acetate	6.2	1.2	1.8	0.35	
78-93-3	2-Butanone (MEK)	7.6	1.2	2.6	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
67-66-3	Chloroform	ND	1.2	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	1.2	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ND	0.23	
71-43-2	Benzene	ND	1.2	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.2	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.2	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample not within specified limits; results may be biased high.

Verified By: KHH

Date: 08/18/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE AREA #1
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-001

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00463

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi I = 0.0 Pf I = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.2	ND	0.19	
79-01-6	Trichloroethene	ND	1.2	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ND	0.27	
108-10-1	4-Methyl-2-pentanone	1.5	1.2	0.36	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	1.2	ND	0.23	
108-88-3	Toluene	9.5	1.2	2.5	0.33	
591-78-6	2-Hexanone	ND	1.2	ND	0.30	
124-48-1	Dibromochloromethane	ND	1.2	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.2	ND	0.16	
127-18-4	Tetrachloroethene	20	1.2	2.9	0.18	
108-90-7	Chlorobenzene	ND	1.2	ND	0.27	
100-41-4	Ethylbenzene	ND	1.2	ND	0.29	
136777-61-2	m,p-Xylenes	1.4	1.2	0.31	0.29	
75-25-2	Bromoform	ND	1.2	ND	0.12	
100-42-5	Styrene	ND	1.2	ND	0.29	
95-47-6	o-Xylene	ND	1.2	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.2	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.2	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KHH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE AREA #1
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
CAS Sample ID: P2301571-001DUP

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00463

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.0 Pf 1 = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.2	ND	0.60	
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
74-83-9	Bromomethane	ND	1.2	ND	0.32	
75-00-3	Chloroethane	ND	1.2	ND	0.47	
67-64-1	Acetone	34	6.2	14	2.6	
75-69-4	Trichlorofluoromethane	5.4	1.2	0.96	0.22	
75-35-4	1,1-Dichloroethene	ND	1.2	ND	0.31	
75-09-2	Methylene chloride	ND	1.2	ND	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.2	ND	0.16	L
75-15-0	Carbon Disulfide	ND	1.2	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	1.2	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.2	ND	0.34	
108-05-4	Vinyl Acetate	6.7	1.2	1.9	0.35	
78-93-3	2-Butanone (MEK)	7.7	1.2	2.6	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
67-66-3	Chloroform	ND	1.2	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	1.2	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ND	0.23	
71-43-2	Benzene	ND	1.2	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.2	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.2	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample not within specified limits; results may be biased high.

Verified By: EMH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE AREA #1
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-001DUP

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00463

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi1 = 0.0 Pf1 = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.2	ND	0.19	
79-01-6	Trichloroethene	ND	1.2	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ND	0.27	
108-10-1	4-Methyl-2-pentanone	1.5	1.2	0.36	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	1.2	ND	0.23	
108-88-3	Toluene	9.7	1.2	2.6	0.33	
591-78-6	2-Hexanone	ND	1.2	ND	0.30	
124-48-1	Dibromochloromethane	ND	1.2	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.2	ND	0.16	
127-18-4	Tetrachloroethene	20	1.2	2.9	0.18	
108-90-7	Chlorobenzene	ND	1.2	ND	0.27	
100-41-4	Ethylbenzene	ND	1.2	ND	0.29	
136777-61-2	m,p-Xylenes	1.4	1.2	0.32	0.29	
75-25-2	Bromoform	ND	1.2	ND	0.12	
100-42-5	Styrene	ND	1.2	ND	0.29	
95-47-6	o-Xylene	ND	1.2	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.2	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.2	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
 MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KWH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **OFFICE AREA #2**
 Client Project ID: **DOVER - KIRKWOOD/05203.009**

CAS Project ID: P2301571
 CAS Sample ID: P2301571-002

Test Code: EPA TO-15
 Instrument ID: HP5973/Tekmar AUTOCAN Elite
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC00266

Date Collected: 8/5/03
 Date Received: 8/6/03
 Date(s) Analyzed: 8/18/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.4 Pf 1 = 3.5

D.F. = 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.62	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.50	
74-83-9	Bromomethane	ND	1.3	ND	0.33	
75-00-3	Chloroethane	ND	1.3	ND	0.48	
67-64-1	Acetone	26	6.4	11	2.7	
75-69-4	Trichlorofluoromethane	6.1	1.3	1.1	0.23	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.37	
76-13-1	Trichlorotrifluoroethane	ND	1.3	ND	0.17	L
75-15-0	Carbon Disulfide	ND	1.3	ND	0.41	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	5.9	1.3	1.7	0.36	
78-93-3	2-Butanone (MEK)	3.9	1.3	1.3	0.43	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	ND	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.40	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample not within specified limits; results may be biased high.

Verified By: K.H Date: 08/18/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE AREA #2
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-002

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00266

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.4 Pf 1 = 3.5

D.F. = 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	10	1.3	2.6	0.34	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.17	
127-18-4	Tetrachloroethene	28	1.3	4.1	0.19	
108-90-7	Chlorobenzene	ND	1.3	ND	0.28	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	ND	1.3	ND	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	ND	1.3	ND	0.30	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.19	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: BH Date: 08/18/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: A/C AREA
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
CAS Sample ID: P2301571-003

Test Code: EPA TO-15
Instrument ID: HP5973 Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00464

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.1 Pf 1 = 3.5

D.F. = 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.61	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.49	
74-83-9	Bromomethane	ND	1.3	ND	0.32	
75-00-3	Chloroethane	ND	1.3	ND	0.47	
67-64-1	Acetone	38	6.3	16	2.6	
75-69-4	Trichlorofluoromethane	27	1.3	4.8	0.22	
75-35-4	1,1-Dichloroethene	1.3	1.3	0.32	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.36	
76-13-1	Trichlorotrifluoroethane	2.4	1.3	0.31	0.16	L
75-15-0	Carbon Disulfide	ND	1.3	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	6.9	1.3	2.0	0.36	
78-93-3	2-Butanone (MEK)	4.7	1.3	1.6	0.42	
156-59-2	cis-1,2-Dichloroethene	1.4	1.3	0.36	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

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L = Laboratory control sample not within specified limits; results may be biased high.

Verified By: KWH Date: 08/18/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **ELECTRICAL AREA**
 Client Project ID: **DOVER - KIRKWOOD/05203.009**

CAS Project ID: P2301571
 CAS Sample ID: P2301571-004

Test Code: EPA TO-15
 Instrument ID: HP5973/Tekmar AUTOCan Elite
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC0020Z

Date Collected: 8/5/03
 Date Received: 8/6/03
 Date(s) Analyzed: 8/18/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.2 Pf 1 = 3.5

D.F. = 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.61	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.49	
74-83-9	Bromomethane	ND	1.3	ND	0.32	
75-00-3	Chloroethane	ND	1.3	ND	0.48	
67-64-1	Acetone	27	6.3	11	2.7	
75-69-4	Trichlorofluoromethane	21	1.3	3.7	0.22	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.36	
76-13-1	Trichlorotrifluoroethane	1.8	1.3	0.24	0.16	L
75-15-0	Carbon Disulfide	ND	1.3	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	3.8	1.3	1.1	0.36	
78-93-3	2-Butanone (MEK)	3.3	1.3	1.1	0.43	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	ND	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample not within specified limits: results may be biased high.

Verified By: KUH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: ELECTRICAL AREA
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-004

Test Code: EPA TO-15
Instrument ID: HP5973 Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00202

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pf1 = -0.2 Pf1 = 3.5

D.F. = 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	9.6	1.3	2.6	0.33	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.16	
127-18-4	Tetrachloroethene	64	1.3	9.4	0.19	
108-90-7	Chlorobenzene	ND	1.3	ND	0.27	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	2.2	1.3	0.51	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	ND	1.3	ND	0.30	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: EMH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: CAFETERIA
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-005

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00343

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.9 Pfi 1 = 3.5

D.F. = 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	ND	1.7	ND	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.37	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.41	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.37	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.31	
108-88-3	Toluene	5.7	1.7	1.5	0.45	
591-78-6	2-Hexanone	ND	1.7	ND	0.41	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.20	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.22	
127-18-4	Tetrachloroethene	17	1.7	2.5	0.25	
108-90-7	Chlorobenzene	ND	1.7	ND	0.37	
100-41-4	Ethylbenzene	ND	1.7	ND	0.39	
136777-61-2	m,p-Xylenes	ND	1.7	ND	0.39	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.40	
95-47-6	o-Xylene	ND	1.7	ND	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.25	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.28	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.28	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: bwh Date: 08/18/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: BACKGROUND
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-006

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00365

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.0 Pf 1 = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.2	ND	0.60	
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
74-83-9	Bromomethane	ND	1.2	ND	0.32	
75-00-3	Chloroethane	ND	1.2	ND	0.47	
67-64-1	Acetone	24	6.2	10	2.6	
75-69-4	Trichlorofluoromethane	1.5	1.2	0.27	0.22	
75-35-4	1,1-Dichloroethene	ND	1.2	ND	0.31	
75-09-2	Methylene chloride	ND	1.2	ND	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.2	ND	0.16	L
75-15-0	Carbon Disulfide	1.3	1.2	0.41	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	1.2	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.2	ND	0.34	
108-05-4	Vinyl Acetate	5.6	1.2	1.6	0.35	
78-93-3	2-Butanone (MEK)	2.7	1.2	0.92	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
67-66-3	Chloroform	ND	1.2	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	1.2	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ND	0.23	
71-43-2	Benzene	ND	1.2	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.2	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.2	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample not within specified limits; results may be biased high.

Verified By: KWH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: BACKGROUND
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P2301571-006

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00365

Date Collected: 8/5/03
Date Received: 8/6/03
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.0 PFI = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.2	ND	0.19	
79-01-6	Trichloroethene	ND	1.2	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ND	0.27	
108-10-1	4-Methyl-2-pentanone	ND	1.2	ND	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	1.2	ND	0.23	
108-88-3	Toluene	4.5	1.2	1.2	0.33	
591-78-6	2-Hexanone	ND	1.2	ND	0.30	
124-48-1	Dibromochloromethane	ND	1.2	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.2	ND	0.16	
127-18-4	Tetrachloroethene	ND	1.2	ND	0.18	
108-90-7	Chlorobenzene	ND	1.2	ND	0.27	
100-41-4	Ethylbenzene	ND	1.2	ND	0.29	
136777-61-2	m,p-Xylenes	ND	1.2	ND	0.29	
75-25-2	Bromoform	ND	1.2	ND	0.12	
100-42-5	Styrene	ND	1.2	ND	0.29	
95-47-6	o-Xylene	ND	1.2	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.2	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.2	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: ELH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: Method Blank
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P030818-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
 Date Received: NA
 Date(s) Analyzed: 8/18/03
 Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	L
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample not within specified limits; results may be biased high.

Verified By: KHU Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: Method Blank
Client Project ID: DOVER - KIRKWOOD/05203.009

CAS Project ID: P2301571
 CAS Sample ID: P030818-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCAN Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 8/18/03
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	m,p-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 08/30/03

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Blasland, Bouck & Lee, Inc. Work order: P2301571

Project: DOVER - KIRKWOOD/05203.009

Sample(s) received on: 8/6/03 Date opened: 8/6/03 by: SM

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were custody seals on outside of cooler Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and or tags agree with custody papers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature <u>NA</u> °C | | | |
| Blank Temperature <u>NA</u> °C | | | |
| 9 Is pH (acid) preservation necessary, according to method SOP or Client specified information? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Is there a client indication that the submitted samples are pH (acid) preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client method SOP require that the analyst check the sample pH and <u>if necessary</u> after it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Required pH	pH (as received, if sampled)	VOA Resuspension (Personal Use Only)	Resuspension Comments
P2301571-001			NA	
P2301571-002			NA	
P2301571-003			NA	
P2301571-004			NA	
P2301571-005			NA	
P2301571-006			NA	

Explain any discrepancies: (include lab sample ID numbers): P2301571-001: LABELED "OFFICE AREA #2" ON CAN= AC00463 & -002 IS LABELED "OFFICE AREA #1" ON CAN= AC00266

Chain of Custody Record Analytical Service Request

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Columbia Analytical Services, Inc.
An Employee - Owned Company

Client/Address		Project Name		Analysis		CAS Project No.				
BBL SOUTH RIVER RD SPRINGFIELD, NJ 08512 Phone 609-860-0590 Fax 609-860-0007 E-mail GRAB BBL-INC.COM		DOVER - KIRKWOOD Project Number 05203.009 Sampling Location KIRKWOOD, NJ P.O. #Billing Informant		VOC TO15		P2301571				
Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	Exposed Transmittal Time (Standard 10 Minutes Only)	Comments (e.g., preservative or specific instructions)	Additional Comments
OFFICE AREA #1	8/5/03	1600		AIR	AC00463	FC00155		X		
OFFICE AREA #2	8/5/03	1600		AIR	AC00266	FC00206		X		
A/C AREA	8/5/03	1603		AIR	AC00464	FC00334		X		
ELECTRICAL AREA	8/5/03	1603		AIR	AC00202	FC00277		X		
LAB AREA	8/5/03	1610		AIR	AC00343	FC00054		X		
BACKFLOW	8/5/03	1613		AIR	AC00365	FC00304		X		
Fulfilled by: (Signature) <i>Ken Puzay</i>		Date: 8/3/03	Time: 1700	Received by: (Signature) <i>Sharon Malone</i>		Date: 8/6/03	Time: 1300			
Fulfilled by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:			
Fulfilled by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:			

OCT 20 2003

Client:	BLASLAND, BOUCK & LEE, INC.	Date of Report:	10/09/03
Address:	8 South River Road	Date Received:	09/19/03
	Cranbury, NJ 08512	CAS Project No:	P2301994
Contact:	Mr. Greg Albright	Purchase Order:	Verbal
Client Project ID:	DOVER - KIRKWOOD/05203.010	NJ Certification ID:	CA009

Six (6) Stainless Steel Summa Canisters labeled:

"CAFETERIA"	"OFFICE REAR"	"OFFICE FRONT"
"ELECTRICAL ROOM"	"A/C ROOM"	"BACKGROUND"

The samples were received at the laboratory under chain of custody on September 19, 2003. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

Reviewed and Approved:



Svetlana Walsh
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:



Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

Page
1 of 18



CAS Project No: P2301994

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **CAFETERIA**
 Client Project ID: **DOVER - KIRKWOOD/05203.010**

CAS Project ID: P2301994
 CAS Sample ID: P2301994-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC00362

Date Collected: 9/18/03
 Date Received: 9/19/03
 Date(s) Analyzed: 9/24/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.1 Pf 1 = 3.5

D.F. = 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.61	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.49	
74-83-9	Bromomethane	ND	1.3	ND	0.32	
75-00-3	Chloroethane	ND	1.3	ND	0.47	
67-64-1	Acetone	10.0	6.3	4.2	2.6	
75-69-4	Trichlorofluoromethane	4.8	1.3	0.85	0.22	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	1.4	1.3	0.39	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.3	ND	0.16	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	ND	1.3	ND	0.36	
78-93-3	2-Butanone (MEK)	1.3	1.3	0.43	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	ND	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: FMH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: CAFETERIA
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00362

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/24/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.1 Pf 1 = 3.5

D.F. = 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	8.9	1.3	2.4	0.33	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.16	
127-18-4	Tetrachloroethene	23	1.3	3.4	0.18	
108-90-7	Chlorobenzene	ND	1.3	ND	0.27	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	1.8	1.3	0.41	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	1.7	1.3	0.41	0.29	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: YMH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE REAR
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00201

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/25/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.0 Pf 1 = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.2	ND	0.60	
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
74-83-9	Bromomethane	ND	1.2	ND	0.32	
75-00-3	Chloroethane	ND	1.2	ND	0.47	
67-64-1	Acetone	14	6.2	6.0	2.6	
75-69-4	Trichlorofluoromethane	3.4	1.2	0.61	0.22	
75-35-4	1,1-Dichloroethene	ND	1.2	ND	0.31	
75-09-2	Methylene chloride	ND	1.2	ND	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.2	ND	0.16	
75-15-0	Carbon Disulfide	ND	1.2	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	1.2	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.2	ND	0.34	
108-05-4	Vinyl Acetate	2.5	1.2	0.72	0.35	M
78-93-3	2-Butanone (MEK)	1.4	1.2	0.49	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
67-66-3	Chloroform	ND	1.2	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	1.2	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ND	0.23	
71-43-2	Benzene	1.3	1.2	0.40	0.39	
56-23-5	Carbon Tetrachloride	ND	1.2	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.2	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M = Matrix interference; results may be biased high.

Verified By: 10103103 Date: KMH

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **OFFICE FRONT**
 Client Project ID: **DOVER - KIRKWOOD/05203.010**

CAS Project ID: P2301994
 CAS Sample ID: P2301994-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC00389

Date Collected: 9/18/03
 Date Received: 9/19/03
 Date(s) Analyzed: 9/25/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -1.3 Pf 1 = 3.5

D.F. = 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.66	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.53	
74-83-9	Bromomethane	ND	1.4	ND	0.35	
75-00-3	Chloroethane	ND	1.4	ND	0.52	
67-64-1	Acetone	9.9	6.8	4.2	2.9	
75-69-4	Trichlorofluoromethane	4.4	1.4	0.78	0.24	
75-35-4	1,1-Dichloroethene	ND	1.4	ND	0.34	
75-09-2	Methylene chloride	ND	1.4	ND	0.39	
76-13-1	Trichlorotrifluoroethane	ND	1.4	ND	0.18	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.34	
75-34-3	1,1-Dichloroethane	ND	1.4	ND	0.34	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.38	
108-05-4	Vinyl Acetate	ND	1.4	ND	0.39	
78-93-3	2-Butanone (MEK)	ND	1.4	ND	0.46	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.34	
67-66-3	Chloroform	ND	1.4	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.34	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ND	0.25	
71-43-2	Benzene	ND	1.4	ND	0.43	
56-23-5	Carbon Tetrachloride	ND	1.4	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE FRONT
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00389

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/25/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -1.3 Pf 1 = 3.5

D.F. = 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.20	
79-01-6	Trichloroethene	ND	1.4	ND	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.30	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.30	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.25	
108-88-3	Toluene	4.9	1.4	1.3	0.36	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.16	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.18	
127-18-4	Tetrachloroethene	24	1.4	3.6	0.20	
108-90-7	Chlorobenzene	ND	1.4	ND	0.30	
100-41-4	Ethylbenzene	ND	1.4	ND	0.31	
136777-61-2	m,p-Xylenes	1.6	1.4	0.37	0.31	
75-25-2	Bromoform	ND	1.4	ND	0.13	
100-42-5	Styrene	1.5	1.4	0.34	0.32	
95-47-6	o-Xylene	ND	1.4	ND	0.31	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.23	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.23	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LW Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **ELECTRICAL ROOM**
 Client Project ID: **DOVER - KIRKWOOD/05203.010**

CAS Project ID: P2301994
 CAS Sample ID: P2301994-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC00202

Date Collected: 9/18/03
 Date Received: 9/19/03
 Date(s) Analyzed: 9/25/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.7 Pf 1 = 3.5

D.F. = 1.30

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.63	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.51	
74-83-9	Bromomethane	ND	1.3	ND	0.33	
75-00-3	Chloroethane	ND	1.3	ND	0.49	
67-64-1	Acetone	13	6.5	5.5	2.7	
75-69-4	Trichlorofluoromethane	12	1.3	2.2	0.23	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.33	
75-09-2	Methylene chloride	ND	1.3	ND	0.37	
76-13-1	Trichlorotrifluoroethane	1.7	1.3	0.22	0.17	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.42	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.33	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.32	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.36	
108-05-4	Vinyl Acetate	ND	1.3	ND	0.37	
78-93-3	2-Butanone (MEK)	3.4	1.3	1.1	0.44	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	ND	0.33	
67-66-3	Chloroform	ND	1.3	ND	0.27	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.32	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.24	
71-43-2	Benzene	ND	1.3	ND	0.41	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KWH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: ELECTRICAL ROOM
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00202

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/25/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.7 Pf 1 = 3.5

D.F. = 1.30

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.29	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.32	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.29	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.24	
108-88-3	Toluene	5.5	1.3	1.5	0.35	
591-78-6	2-Hexanone	ND	1.3	ND	0.32	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.17	
127-18-4	Tetrachloroethene	62	1.3	9.1	0.19	
108-90-7	Chlorobenzene	ND	1.3	ND	0.28	
100-41-4	Ethylbenzene	ND	1.3	ND	0.30	
136777-61-2	m,p-Xylenes	2.2	1.3	0.50	0.30	
75-25-2	Bromoform	ND	1.3	ND	0.13	
100-42-5	Styrene	1.7	1.3	0.39	0.31	
95-47-6	o-Xylene	ND	1.3	ND	0.30	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.19	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.22	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.22	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: **Blasland, Bouck & Lee, Inc.**
 Client Sample ID: **A/C ROOM**
 Client Project ID: **DOVER - KIRKWOOD/05203.010**

CAS Project ID: P2301994
 CAS Sample ID: P2301994-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
 Analyst: Svetlana Walsh
 Sampling Media: Summa Canister
 Test Notes:
 Container ID: AC00079

Date Collected: 9/18/03
 Date Received: 9/19/03
 Date(s) Analyzed: 9/25/03
 Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

D.F. = 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.69	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
74-83-9	Bromomethane	ND	1.4	ND	0.37	
75-00-3	Chloroethane	ND	1.4	ND	0.54	
67-64-1	Acetone	12	7.1	4.9	3.0	
75-69-4	Trichlorofluoromethane	9.7	1.4	1.7	0.25	
75-35-4	1,1-Dichloroethene	ND	1.4	ND	0.36	
75-09-2	Methylene chloride	ND	1.4	ND	0.41	
76-13-1	Trichlorotrifluoroethane	2.0	1.4	0.27	0.19	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
75-34-3	1,1-Dichloroethane	ND	1.4	ND	0.35	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.39	
108-05-4	Vinyl Acetate	2.1	1.4	0.61	0.40	M
78-93-3	2-Butanone (MEK)	2.6	1.4	0.87	0.48	
156-59-2	cis-1,2-Dichloroethene	1.5	1.4	0.38	0.36	
67-66-3	Chloroform	ND	1.4	ND	0.29	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.35	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ND	0.26	
71-43-2	Benzene	ND	1.4	ND	0.44	
56-23-5	Carbon Tetrachloride	ND	1.4	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.31	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M = Matrix interference; results may be biased high.

Verified By: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: A/C ROOM
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00079

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/25/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

D.F. = 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.21	
79-01-6	Trichloroethene	ND	1.4	ND	0.26	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.31	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.31	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.26	
108-88-3	Toluene	4.7	1.4	13	0.38	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.18	
127-18-4	Tetrachloroethene	88	1.4	13	0.21	
108-90-7	Chlorobenzene	ND	1.4	ND	0.31	
100-41-4	Ethylbenzene	ND	1.4	ND	0.33	
136777-61-2	m,p-Xylenes	2.0	1.4	0.46	0.33	
75-25-2	Bromoform	ND	1.4	ND	0.14	
100-42-5	Styrene	1.6	1.4	0.38	0.33	
95-47-6	o-Xylene	ND	1.4	ND	0.33	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.24	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: YHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: BACKGROUND
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00511

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/25/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.0 Pf 1 = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.2	ND	0.60	
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
74-83-9	Bromomethane	ND	1.2	ND	0.32	
75-00-3	Chloroethane	ND	1.2	ND	0.47	
67-64-1	Acetone	12	6.2	4.9	2.6	M
75-69-4	Trichlorofluoromethane	1.5	1.2	0.26	0.22	
75-35-4	1,1-Dichloroethene	ND	1.2	ND	0.31	
75-09-2	Methylene chloride	ND	1.2	ND	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.2	ND	0.16	
75-15-0	Carbon Disulfide	ND	1.2	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	1.2	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	1.5	1.2	0.41	0.34	
108-05-4	Vinyl Acetate	ND	1.2	ND	0.35	
78-93-3	2-Butanone (MEK)	1.6	1.2	0.53	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
67-66-3	Chloroform	ND	1.2	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	1.2	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ND	0.23	
71-43-2	Benzene	ND	1.2	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.2	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.2	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M = Matrix interference; results may be biased high.

Verified By: K-H Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: BACKGROUND
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P2301994-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00511

Date Collected: 9/18/03
Date Received: 9/19/03
Date(s) Analyzed: 9/25/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi I = 0.0 Pf I = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.2	ND	0.19	
79-01-6	Trichloroethene	ND	1.2	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ND	0.27	
108-10-1	4-Methyl-2-pentanone	ND	1.2	ND	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	1.2	ND	0.23	
108-88-3	Toluene	4.5	1.2	1.2	0.33	
591-78-6	2-Hexanone	ND	1.2	ND	0.30	
124-48-1	Dibromochloromethane	ND	1.2	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.2	ND	0.16	
127-18-4	Tetrachloroethene	2.2	1.2	0.32	0.18	
108-90-7	Chlorobenzene	ND	1.2	ND	0.27	
100-41-4	Ethylbenzene	ND	1.2	ND	0.29	
136777-61-2	m,p-Xylenes	1.8	1.2	0.43	0.29	
75-25-2	Bromoform	ND	1.2	ND	0.12	
100-42-5	Styrene	2.2	1.2	0.51	0.29	
95-47-6	o-Xylene	ND	1.2	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.2	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.2	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: Method Blank
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P030924-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/24/03
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Y.H.H. Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: Method Blank
Client Project ID: DOVER - KIRKWOOD/05203.010

CAS Project ID: P2301994
 CAS Sample ID: P030924-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/24/03
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	m,p-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KWH Date: 10/03/03

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Blasland, Bouck & Lee, Inc. Work order: P2301994
 Project: DOVER - KIRKWOOD/05203.010
 Sample(s) received on: 9/19/03 Date opened: 9/19/03 by: SM

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature <u>NA</u> °C | | | |
| Blank Temperature <u>NA</u> °C | | | |
| 9 Is pH (acid) preservation necessary, according to method/SOP or Client specified information? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Is there a client indication that the submitted samples are pH (acid) preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt/Preservation Comments
P2301994-001			NA	
P2301994-002			NA	
P2301994-003			NA	
P2301994-004			NA	
P2301994-005			NA	
P2301994-006			NA	

Explain any discrepancies: (include lab sample ID numbers): _____ 17

Chain of Custody Record Analytical Service Request

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Columbia Analytical Services, Inc.
An Employee-Owned Company

Client/Address 8 SOUTH RIVER RD CLANBURY, NJ 08512		Project Name DOVER - KIRKWOOD		CAS Project No. P2301994		
Phone 609-860-0590		Project Number 05203010		Cooler / Blank		
Email GRA@BBL-INC.COM		Sampling Location KIRKWOOD, NY		Temp.		
Contact GREG ARLIGHT		P.O. #/Billing Information		Expected Turnaround Time 24 Hr 48Hr 3Day 4Day 5Day (10 Business Days)		
Sampler (Signature) <i>[Signature]</i>		Type of Sample		Comments (e.g., preservative or specific instructions)		
Date Collected 2003		Lab Sample No.		Sample Volume (Liters)		
Time Collected		Container ID (Serial #)		Flow Controller (Serial #)		
Client Sample ID		Type of Sample		Sample Volume (Liters)		
CAFE/TERIA	9/10 1528	-1	AIR	AC00202	FC00277	70-15 FC00205
OFFICE REAR	9/10 1529	-2	AIR	AC00201	FC00201	
OFFICE FRONT	9/10 1530	-3	AIR	AC00309	FC00274	
ELECTRICAL ROOM	9/10 1534	-4	AIR	AC00202	FC00089	
A/C ROOM	9/10 1535	-5	AIR	AC00079	FC00058	
BACKGROUNDR	9/10 1537	-6	AIR	AC00514	FC00324	
Relinquished by: (Signature) <i>[Signature]</i>		Date: 9/10/03		Time: 16:30		Additional Comments
Relinquished by: (Signature) <i>[Signature]</i>		Date: 9/19/03		Time: 10:00		
Relinquished by: (Signature)		Date:		Time:		

JAN 2004

LABORATORY REPORT

Client:	BLASLAND, BOUCK & LEE, INC.	Date of Report:	01/23/04
Address:	8 South River Road	Date Received:	01/07/04
	Cranbury, NJ 08512	CAS Project No:	P2400023
Contact:	Mr. Greg Albright	Purchase Order:	05203
Client Project ID:	DOVER - KIRKWOOD/05202.010	NJ Certification ID:	CA009

Six (6) Stainless Steel Summa Canisters labeled:

“BACKGROUND”
“CAFETERIA”

“A/C ROOM”
“OFFICE-FRONT”

“ELECTRICAL ROOM”
“OFFICE-REAR”

The samples were received at the laboratory under chain of custody on January 7, 2004. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

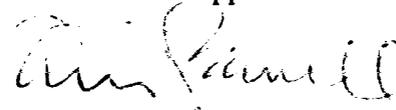
The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

Reviewed and Approved:



Svetlana Walsh
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:



Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

Page
1 of 18

CAS Project No: P2400023

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: BACKGROUND
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
 CAS Sample ID: P2400023-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00142

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 1.3 Pf 1 = 3.5

D.F. = 1.14

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.1	ND	0.55	
75-01-4	Vinyl Chloride	ND	1.1	ND	0.45	
74-83-9	Bromomethane	ND	1.1	ND	0.29	
75-00-3	Chloroethane	ND	1.1	ND	0.43	
67-64-1	Acetone	ND	5.7	ND	2.4	
75-69-4	Trichlorofluoromethane	1.5	1.1	0.26	0.20	
75-35-4	1,1-Dichloroethene	ND	1.1	ND	0.29	
75-09-2	Methylene chloride	ND	1.1	ND	0.33	
76-13-1	Trichlorotrifluoroethane	ND	1.1	ND	0.15	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.37	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	ND	0.29	
75-34-3	1,1-Dichloroethane	ND	1.1	ND	0.28	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	ND	0.32	
108-05-4	Vinyl Acetate	ND	1.1	ND	0.32	
78-93-3	2-Butanone (MEK)	ND	1.1	ND	0.39	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	ND	0.29	
67-66-3	Chloroform	ND	1.1	ND	0.23	
107-06-2	1,2-Dichloroethane	ND	1.1	ND	0.28	
71-55-6	1,1,1-Trichloroethane	ND	1.1	ND	0.21	
71-43-2	Benzene	ND	1.1	ND	0.36	
56-23-5	Carbon Tetrachloride	ND	1.1	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	1.1	ND	0.25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LWH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: BACKGROUND
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00142

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 1.3 Pf 1 = 3.5

D.F. = 1.14

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.1	ND	0.17	
79-01-6	Trichloroethene	ND	1.1	ND	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ND	0.25	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.28	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ND	0.25	
79-00-5	1,1,2-Trichloroethane	ND	1.1	ND	0.21	
108-88-3	Toluene	ND	1.1	ND	0.30	
591-78-6	2-Hexanone	ND	1.1	ND	0.28	
124-48-1	Dibromochloromethane	ND	1.1	ND	0.13	
106-93-4	1,2-Dibromoethane	ND	1.1	ND	0.15	
127-18-4	Tetrachloroethene	ND	1.1	ND	0.17	
108-90-7	Chlorobenzene	ND	1.1	ND	0.25	
100-41-4	Ethylbenzene	ND	1.1	ND	0.26	
136777-61-2	m,p-Xylenes	ND	1.1	ND	0.26	
75-25-2	Bromoform	ND	1.1	ND	0.11	
100-42-5	Styrene	ND	1.1	ND	0.27	
95-47-6	o-Xylene	ND	1.1	ND	0.26	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	ND	0.17	
541-73-1	1,3-Dichlorobenzene	ND	1.1	ND	0.19	
106-46-7	1,4-Dichlorobenzene	ND	1.1	ND	0.19	
95-50-1	1,2-Dichlorobenzene	ND	1.1	ND	0.19	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KJH Date: 1/9/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: A/C ROOM
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00129

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -1.3 Pf 1 = 3.5

D.F. = 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.66	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.53	
74-83-9	Bromomethane	ND	1.4	ND	0.35	
75-00-3	Chloroethane	ND	1.4	ND	0.52	
67-64-1	Acetone	9.5	6.8	4.0	2.9	
75-69-4	Trichlorofluoromethane	4.5	1.4	0.81	0.24	
75-35-4	1,1-Dichloroethene	ND	1.4	ND	0.34	
75-09-2	Methylene chloride	ND	1.4	ND	0.39	
76-13-1	Trichlorotrifluoroethane	3.3	1.4	0.43	0.18	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.34	
75-34-3	1,1-Dichloroethane	ND	1.4	ND	0.34	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.38	
108-05-4	Vinyl Acetate	ND	1.4	ND	0.39	
78-93-3	2-Butanone (MEK)	1.8	1.4	0.62	0.46	
156-59-2	cis-1,2-Dichloroethene	3.6	1.4	0.91	0.34	
67-66-3	Chloroform	ND	1.4	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.34	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ND	0.25	
71-43-2	Benzene	ND	1.4	ND	0.43	
56-23-5	Carbon Tetrachloride	ND	1.4	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: EMH Date: 01/20/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: A/C ROOM
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00129

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -1.3 Pf 1 = 3.5

D.F. = 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.20	
79-01-6	Trichloroethene	1.7	1.4	0.31	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.30	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.30	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.25	
108-88-3	Toluene	2.6	1.4	0.70	0.36	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.16	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.18	
127-18-4	Tetrachloroethene	85	1.4	12	0.20	
108-90-7	Chlorobenzene	ND	1.4	ND	0.30	
100-41-4	Ethylbenzene	ND	1.4	ND	0.31	
136777-61-2	m,p-Xylenes	ND	1.4	ND	0.31	
75-25-2	Bromoform	ND	1.4	ND	0.13	
100-42-5	Styrene	ND	1.4	ND	0.32	
95-47-6	o-Xylene	ND	1.4	ND	0.31	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.23	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.23	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KWH Date: 01/09/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: ELECTRICAL ROOM
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00014

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.5 Pf 1 = 3.5

D.F. = 1.28

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.62	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.50	
74-83-9	Bromomethane	ND	1.3	ND	0.33	
75-00-3	Chloroethane	ND	1.3	ND	0.49	
67-64-1	Acetone	7.8	6.4	3.3	2.7	
75-69-4	Trichlorofluoromethane	6.5	1.3	1.2	0.23	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.37	
76-13-1	Trichlorotrifluoroethane	3.2	1.3	0.42	0.17	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.41	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.32	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.36	
108-05-4	Vinyl Acetate	ND	1.3	ND	0.36	
78-93-3	2-Butanone (MEK)	ND	1.3	ND	0.43	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	ND	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.32	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.40	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KWH Date: 01/20/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: ELECTRICAL ROOM
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00014

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.5 Pf 1 = 3.5

D.F. = 1.28

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	2.4	1.3	0.65	0.34	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.17	
127-18-4	Tetrachloroethene	75	1.3	11	0.19	
108-90-7	Chlorobenzene	ND	1.3	ND	0.28	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	ND	1.3	ND	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	ND	1.3	ND	0.30	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.19	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: ELH Date: 01/10/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: CAFETERIA
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00363

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi I = -0.1 Pf I = 3.5

D.F. = 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.61	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.49	
74-83-9	Bromomethane	ND	1.3	ND	0.32	
75-00-3	Chloroethane	ND	1.3	ND	0.47	
67-64-1	Acetone	10	6.3	4.2	2.6	
75-69-4	Trichlorofluoromethane	3.7	1.3	0.67	0.22	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.36	
76-13-1	Trichlorotrifluoroethane	6.6	1.3	0.86	0.16	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	ND	1.3	ND	0.36	
78-93-3	2-Butanone (MEK)	1.8	1.3	0.60	0.42	
156-59-2	cis-1,2-Dichloroethene	3.5	1.3	0.89	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: K-11 Date: 01/09/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: CAFETERIA
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00363

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.1 Pf 1 = 3.5

D.F. = 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	1.7	1.3	0.31	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	3.0	1.3	0.79	0.33	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.16	
127-18-4	Tetrachloroethene	110	1.3	16	0.18	
108-90-7	Chlorobenzene	ND	1.3	ND	0.27	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	ND	1.3	ND	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	ND	1.3	ND	0.29	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE-FRONT
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
 CAS Sample ID: P2400023-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00164

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.3 Pf 1 = 3.5

D.F. = 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.61	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.49	
74-83-9	Bromomethane	ND	1.3	ND	0.32	
75-00-3	Chloroethane	ND	1.3	ND	0.48	
67-64-1	Acetone	12	6.3	5.2	2.7	
75-69-4	Trichlorofluoromethane	3.6	1.3	0.64	0.22	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.36	
76-13-1	Trichlorotrifluoroethane	3.6	1.3	0.46	0.16	
75-15-0	Carbon Disulfide	3.6	1.3	1.2	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	1.4	1.3	0.39	0.36	
78-93-3	2-Butanone (MEK)	2.3	1.3	0.79	0.43	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	ND	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: YJH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE-FRONT
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00164

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.3 Pf 1 = 3.5

D.F. = 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	2.6	1.3	0.68	0.33	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.16	
127-18-4	Tetrachloroethene	87	1.3	13	0.19	
108-90-7	Chlorobenzene	ND	1.3	ND	0.27	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	ND	1.3	ND	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	ND	1.3	ND	0.30	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE-REAR
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P2400023-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00421

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/10/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.3 Pf 1 = 3.5

D.F. = 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.3	ND	0.61	
75-01-4	Vinyl Chloride	ND	1.3	ND	0.49	
74-83-9	Bromomethane	ND	1.3	ND	0.32	
75-00-3	Chloroethane	ND	1.3	ND	0.48	
67-64-1	Acetone	11	6.3	4.5	2.7	
75-69-4	Trichlorofluoromethane	3.6	1.3	0.64	0.22	
75-35-4	1,1-Dichloroethene	ND	1.3	ND	0.32	
75-09-2	Methylene chloride	ND	1.3	ND	0.36	
76-13-1	Trichlorotrifluoroethane	4.2	1.3	0.54	0.16	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	ND	0.32	
75-34-3	1,1-Dichloroethane	ND	1.3	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	ND	0.35	
108-05-4	Vinyl Acetate	ND	1.3	ND	0.36	
78-93-3	2-Butanone (MEK)	ND	1.3	ND	0.43	
156-59-2	cis-1,2-Dichloroethene	1.3	1.3	0.32	0.32	
67-66-3	Chloroform	ND	1.3	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	1.3	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.3	ND	0.23	
71-43-2	Benzene	ND	1.3	ND	0.39	
56-23-5	Carbon Tetrachloride	ND	1.3	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: ELH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: OFFICE-REAR
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
 CAS Sample ID: P2400023-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00421

Date Collected: 1/6/04
Date Received: 1/7/04
Date(s) Analyzed: 1/10/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -0.3 Pf 1 = 3.5

D.F. = 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.3	ND	0.19	
79-01-6	Trichloroethene	ND	1.3	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	1.3	ND	0.23	
108-88-3	Toluene	2.6	1.3	0.70	0.33	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	ND	1.3	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.3	ND	0.16	
127-18-4	Tetrachloroethene	110	1.3	16	0.19	
108-90-7	Chlorobenzene	ND	1.3	ND	0.27	
100-41-4	Ethylbenzene	ND	1.3	ND	0.29	
136777-61-2	m,p-Xylenes	ND	1.3	ND	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	ND	1.3	ND	0.30	
95-47-6	o-Xylene	ND	1.3	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.3	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.3	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.3	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LMH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: Method Blank
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P040109-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LWH Date: 01/09/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 2

Client: Blasland, Bouck & Lee, Inc.
Client Sample ID: Method Blank
Client Project ID: DOVER - KIRKWOOD/05202.010

CAS Project ID: P2400023
CAS Sample ID: P040109-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Svetlana Waish
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 1/9/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	m,p-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: ELH Date: 01/09/04

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Blasland, Bouck & Lee, Inc.

Work order: P2400023

Project: DOVER - KIRKWOOD/05202.010

Sample(s) received on: 1/7/04

Date opened: 1/7/04

by: SM

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

- | | <u>Yes</u> | <u>No</u> | <u>N/A</u> |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 Were sample containers properly marked with client sample ID? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature <u>NA</u> °C | | | |
| Blank Temperature <u>NA</u> °C | | | |
| 9 Is pH (acid) preservation necessary, according to method/SOP or Client specified information? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Is there a client indication that the submitted samples are pH (acid) preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Present/Absent)	Receipt / Preservation Comments
P2400023-001			NA	
P2400023-002			NA	
P2400023-003			NA	
P2400023-004			NA	
P2400023-005			NA	
P2400023-006			NA	

Explain any discrepancies: (include lab sample ID numbers):

P2300023-003: ID LABEL: ELECTRICAL ROOM. CAN #: AC00363 -004: ID LABEL: CAFETERIA. CAN #: AC00014.

Chain of Custody Record Analytical Service Request

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270



Client/Address 8 SOUTH RIVER ROAD CRANFORD, NJ 07016		Project Name POWER-KILGOUR		CAS Project No. P2400023					
Phone 609-800-0393 Fax 609-800-8007		Project Number 05202010		Cooler / Blank Temp.					
Email GRA @ BBL-INC.COM		Sampling Location KILGOUR, NY		Expected Turnaround Time 24 Hr (48 Hr for States Standard (10 Business Days))					
Contact GREG AUBRIGHT		PO. #/Billing Information		Comments (e.g., preservative or specific instructions)					
Client Sample ID	2500A Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)		
BACKGROUND	1/6	16001	-1	AIR	ACC0412	EC00272			
A/C ROOM	1/6	16006	-2	AIR	ACC0429	EC00189		X	
ELECTRICAL ROOM	1/6	16007	-3	AIR	ACC0404	EC00335		X	NE00363
CORRIDOR	1/6	16009	-4	AIR	ACC0463	EC00158		X	A000014
OFFICE FRONT	1/6	16010	-5	AIR	ACC0464	EC00246		X	
OFFICE - REAR	1/6	16011	-6	AIR	ACC0421	EC00237		X	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)	Date:	Time:	Additional Comments		
<i>[Signature]</i>		11/6/04	18:00	<i>[Signature]</i>	11/7/04	10:30			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)	Date:	Time:			
<i>[Signature]</i>				<i>[Signature]</i>					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)	Date:	Time:			
<i>[Signature]</i>				<i>[Signature]</i>					