Remedial Action Report

Universal Instruments Corporation

Kirkwood, Broome County, New York

March 2004

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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.



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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

Excavation ID	*Location ID*	*Excavation Depth*	*Approximate Areal Extent*	*Approximate Excavation Perimeter*	*Approximate Volume*
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 yd^3**

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-excavation sampling. All excavations were backfilled after post-excavation 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 minimum[1]. 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 or 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 (µg/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 µg/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 µg/kg (PXC-7) and 1,600 µg/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

Excavation ID	***Approximate Volume of Fill Material***	
	Re-Used Surface soil	***Clean, Imported Fill***
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 yd^3**	**265 yd^3**

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 be 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 (Radonwaway brand HS series

HS5000 fan). The fan is Underwriter's Laboratory (UL)-approved for outdoor use (UL standard 507) and mets 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 be 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 ($\mu g/M^3$) 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 $\mu g/M^3$ and 28 $\mu g/M^3$ during the August event and 23 $\mu g/M^3$ and 52 $\mu g/M^3$ during the September event. In January 2004, indoor air concentrations were 110 $\mu g/M^3$ in Office #1 (Rear) and the Cafeteria, 87 $\mu g/M^3$ in Office #2 (Front), 85 $\mu g/M^3$ in the AC Area, and 75 $\mu g/M^3$ 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 $\mu g/M^3$.

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	
Heptachlorepoxide	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	
Volatile 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
Volatile 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-4	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		
Volatile 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	
A - PID Reading (ppmv)	148*	5	4.7	4.5*	holes at 36" of water	
B - Vacuum (" of Water)	0.45	0.4	0.3	0.6	B,C, & D test holes at radii	
B - PID Reading (ppmbv)	14	7	2	1	of 5, 10, & 20 feet from "A"	
C - Vacuum (" of Water)	0.25	0.2	0.1	0.1	* Locations chosen for	
C - PID Reading (ppmv)	0.5	35	9	12	ASD extraction points	
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

	Outside (Backrground) Sample			A/C Area Sample		Electrical Area Sample		Office Area Sample #1		Office Area Sample #2		Cafeteria		Occupational* Exposure Limits
Volatile Organic Compound	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)	0.92	*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**
Trichlorfluoromethane	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/M^3 = 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

	Outside (Backrground) Sample			A/C Area Sample		Electrical Area Sample		Office Area Sample #1		Office Area Sample #2		Cafeteria		Occupational* Exposure Limits
Volatile Organic Compound	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**
Trichlorfluoromethane	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/M^3 = 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

	Outside (Backrground) Sample			A/C Area Sample		Electrical Area Sample		Office Area Sample #1 (Rear)		Office Area Sample #2 (Front)		Cafeteria		Occupational* Exposure Limits
Volatile Organic Compound	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**
Trichlorfluoromethane	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/M^3 = 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

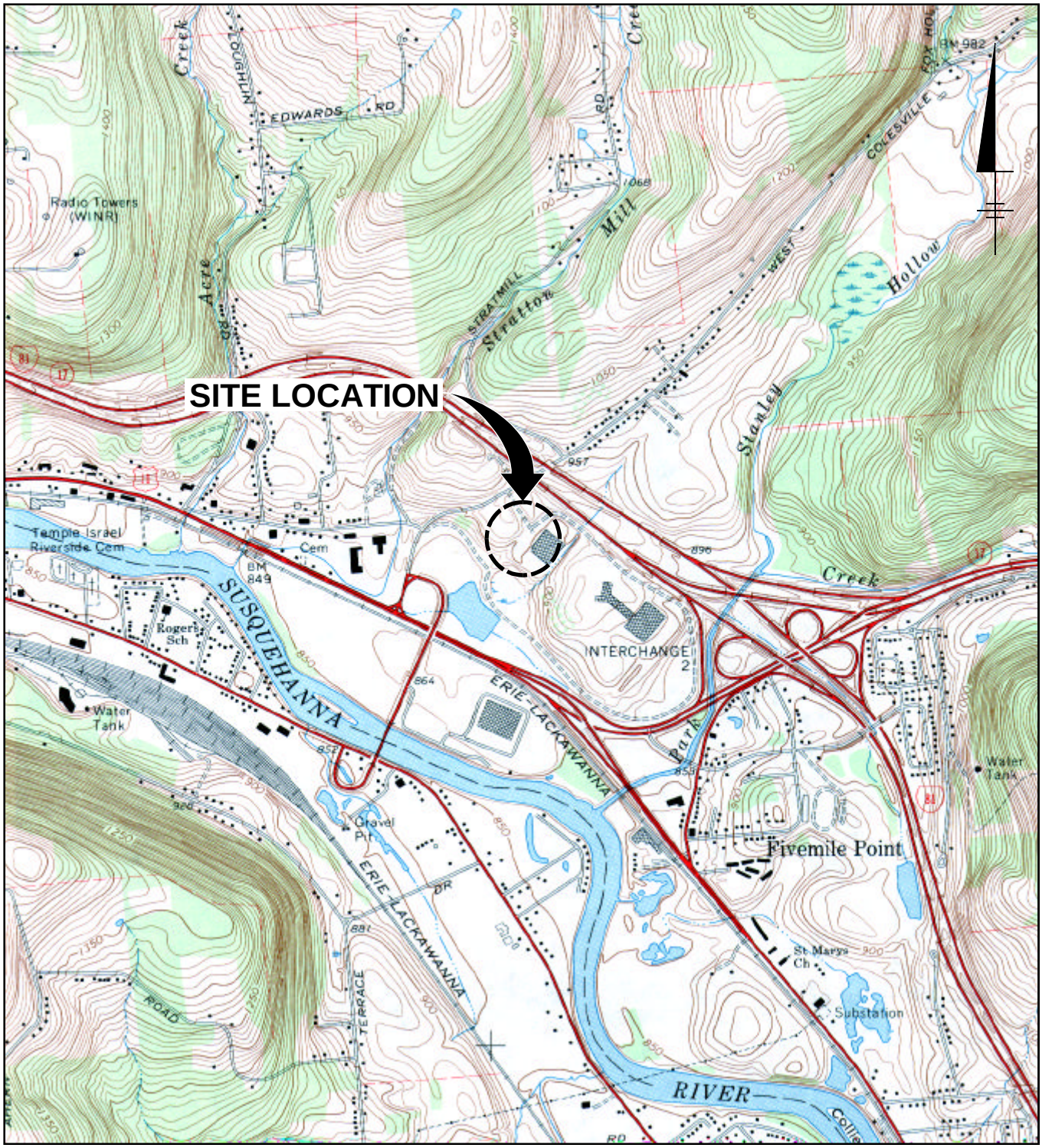
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK

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	-	-	-	-	

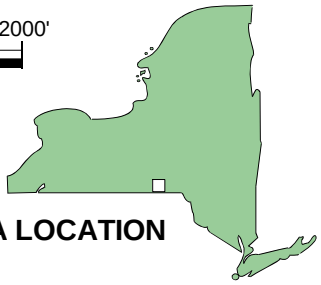
Figures



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

2000' 0 2000'

Approximate Scale: 1" = 2000'



AREA LOCATION

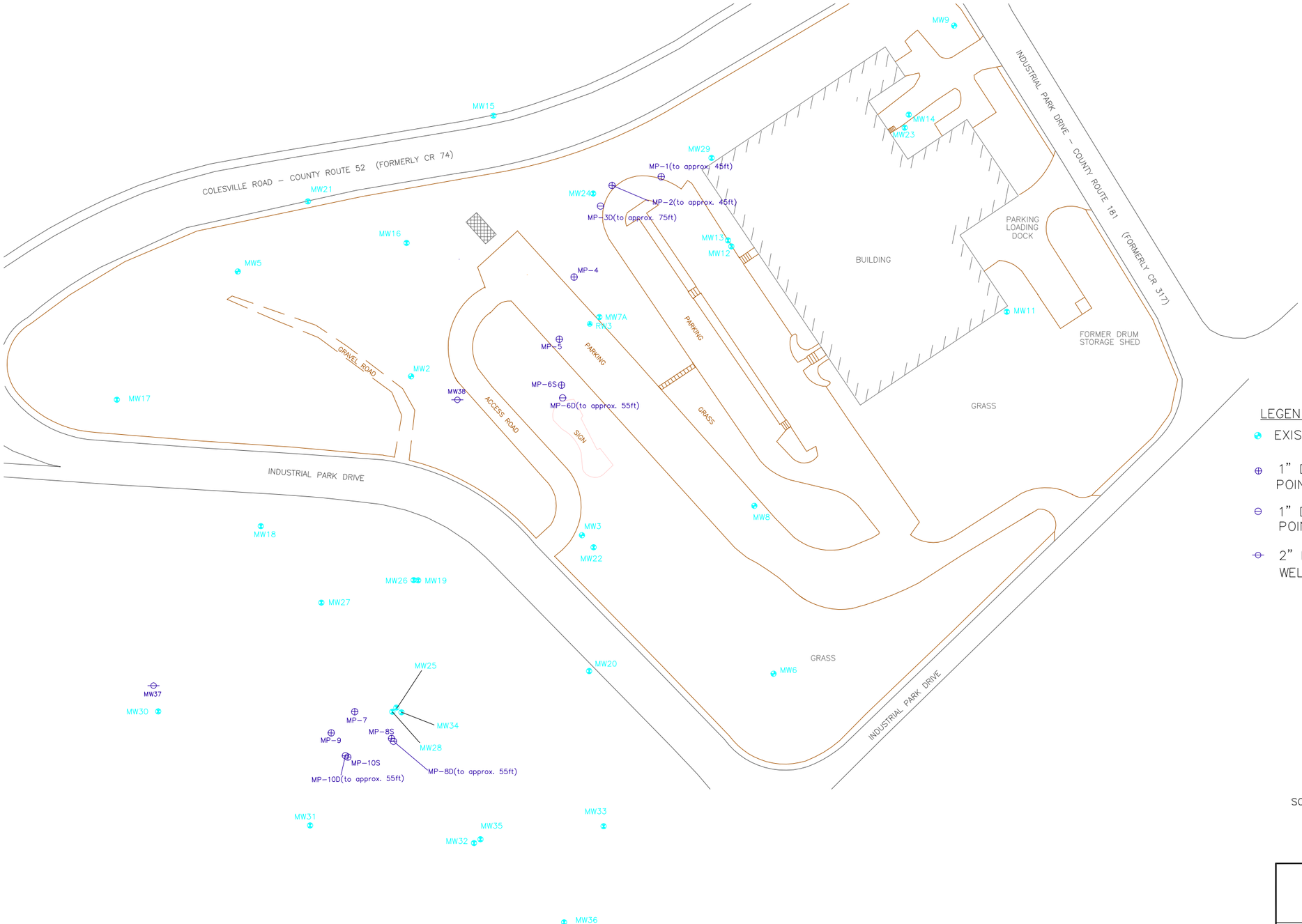
07/18/01 CRA-54-IY
05203003/05203n01.cdr

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK

LOCATION MAP

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

FIGURE 1



LEGEND

- EXISTING MONITORING WELL
- ⊕ 1" DIAMETER, SHALLOW MONITORING POINT TO 25ft UNLESS OTHERWISE INDICATED
- ⊖ 1" DIAMETER, DEEP MONITORING POINT TO INDICATED DEPTH
- ⊖ 2" DIAMETER, DEEP MONITORING WELL TO INDICATED DEPTH

0 60 120

SCALE IN 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 YORK
GROUNDWATER BIOREMEDIATION
PILOT STUDY

SITE MAP AND MONITORING WELL LOCATIONS

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2

X:
L: OFF=REF
P: PAGESET/PLT-DL
8/26/02 CRA-54-IY, TLF
05203004/05203C02.DWG

LEGEND

- EXISTING MONITORING WELL
- SOIL EXCAVATION
- NON–HAZ SOIL STOCKPILE LOCATION
- DECON AREA LOCATION
- HAZ SOIL STOCKPILE

INDUSTRIAL PARK DRIVE – COUNTY ROUTE 181 (FORMERLY CR 317)

MW9
MW1
MW23
MW4
MW29
MW13
MW12
MW11

CB 2044 (NORTH CATCH BASIN)
CB 1846 (NORTHEAST CATCH BASIN)

A
A1
B
C
D
E
F

1982 ADDITION
1978 ADDITION
1984 ADDITION
BUILDING
1973 – MAIN PLANT CONSTRUCTED

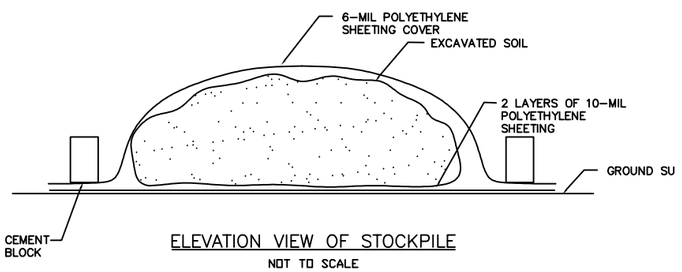
PARKING LOADING DOCK

EXCAVATION A STOCKPILE

NON–HAZ EXCAVATIONS B, C, D, E STOCKPILE

CLEAN SOIL STOCKPILE

0 50' 100'
GRAPHIC SCALE



ELEVATION VIEW OF STOCKPILE
NOT TO SCALE

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

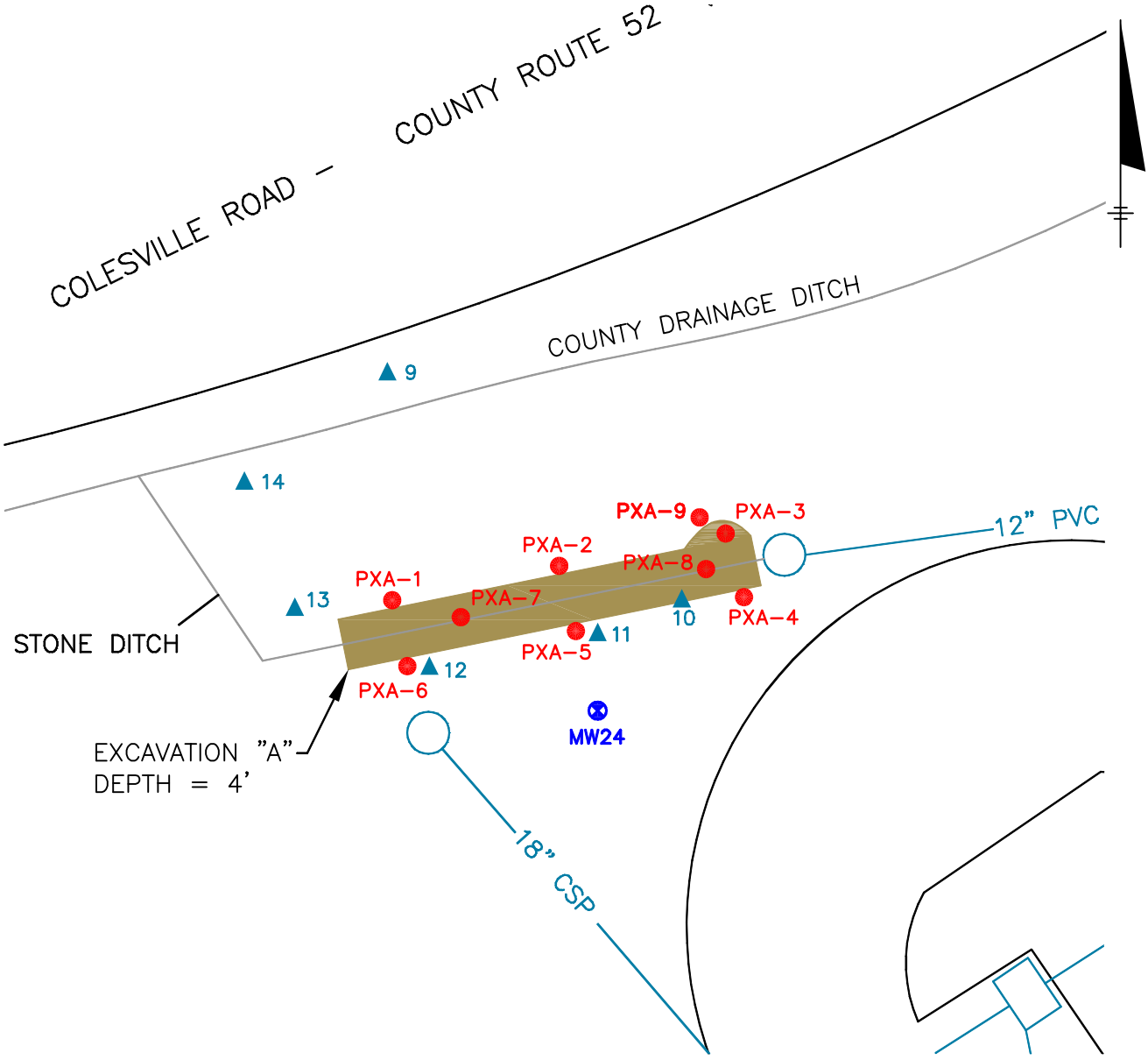
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

REMEDIAL ACTION LOCATIONS

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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



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.

0 20' 40'

GRAPHIC SCALE

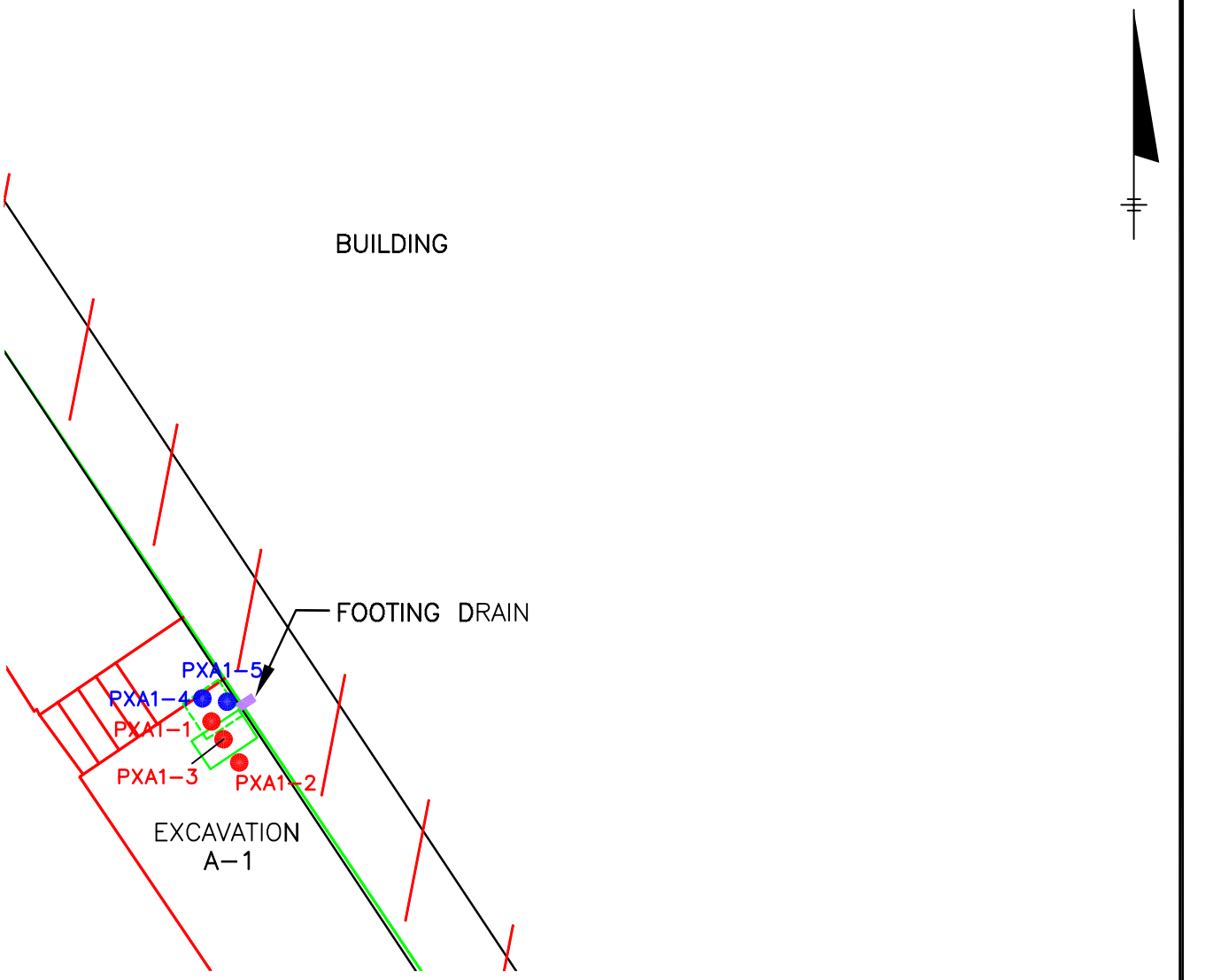
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "A"

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

FIGURE 4

X:
L: OFF = REF*
P: PAGESET/PLT–AP
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.

0 20' 40'

GRAPHIC SCALE

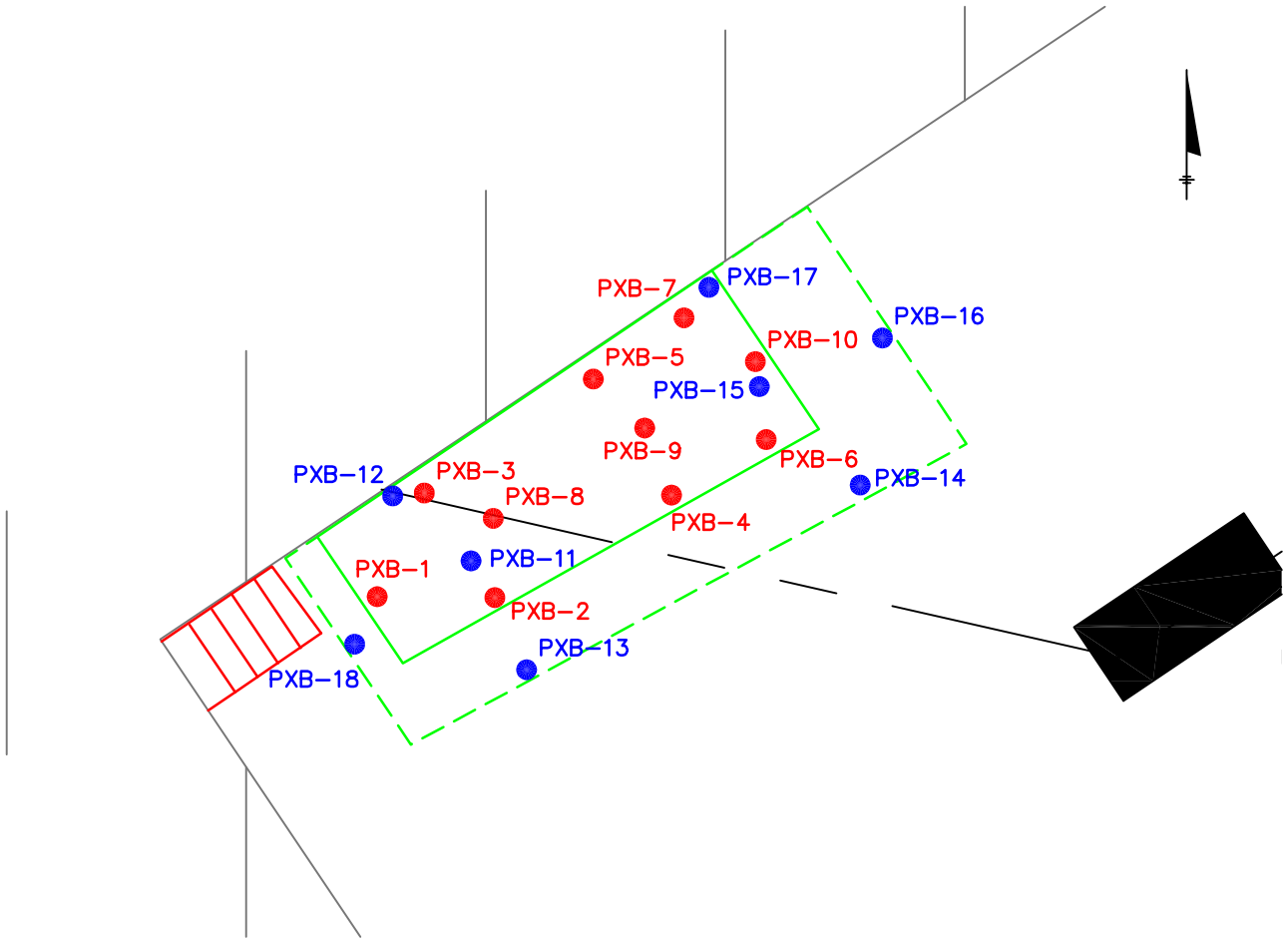
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "A-1"

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

FIGURE 5

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



LEGEND

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

0 10' 20'

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.

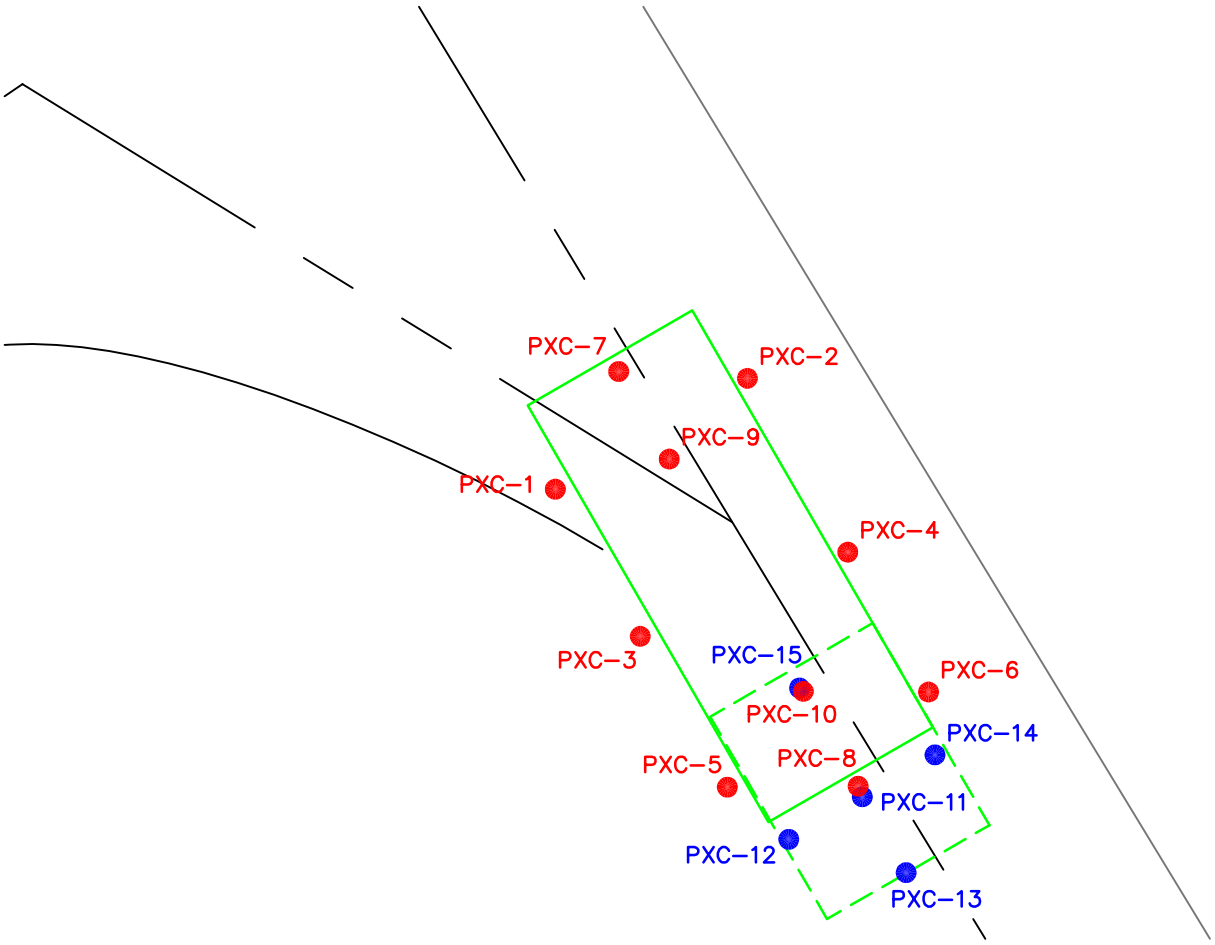
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L: REF*,SS
P: PAGESET/PLT–AP
10/29/03 CRA–85–TLF
05203008/05203N01.DWG

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "B"

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

FIGURE
6



LEGEND

PHASE 1

PHASE 2

POST-EXCAVATION SOIL SAMPLING LOCATION

0 10' 20'

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.

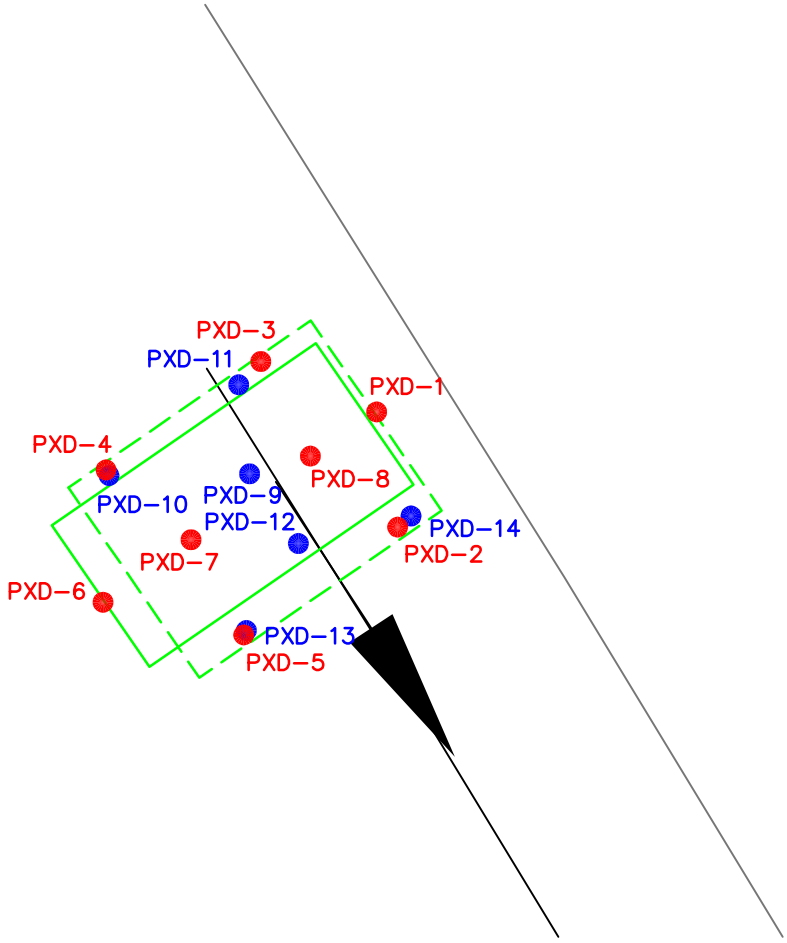
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L: REF*,SS
P: PAGESET/PLT-AP
10/29/03 CRA-85-TLF
05203008/05203N02.DWG

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "C"

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

FIGURE
7



LEGEND

PHASE 1

PHASE 2

POST–EXCAVATION SOIL SAMPLING LOCATION

0 10' 20'

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.

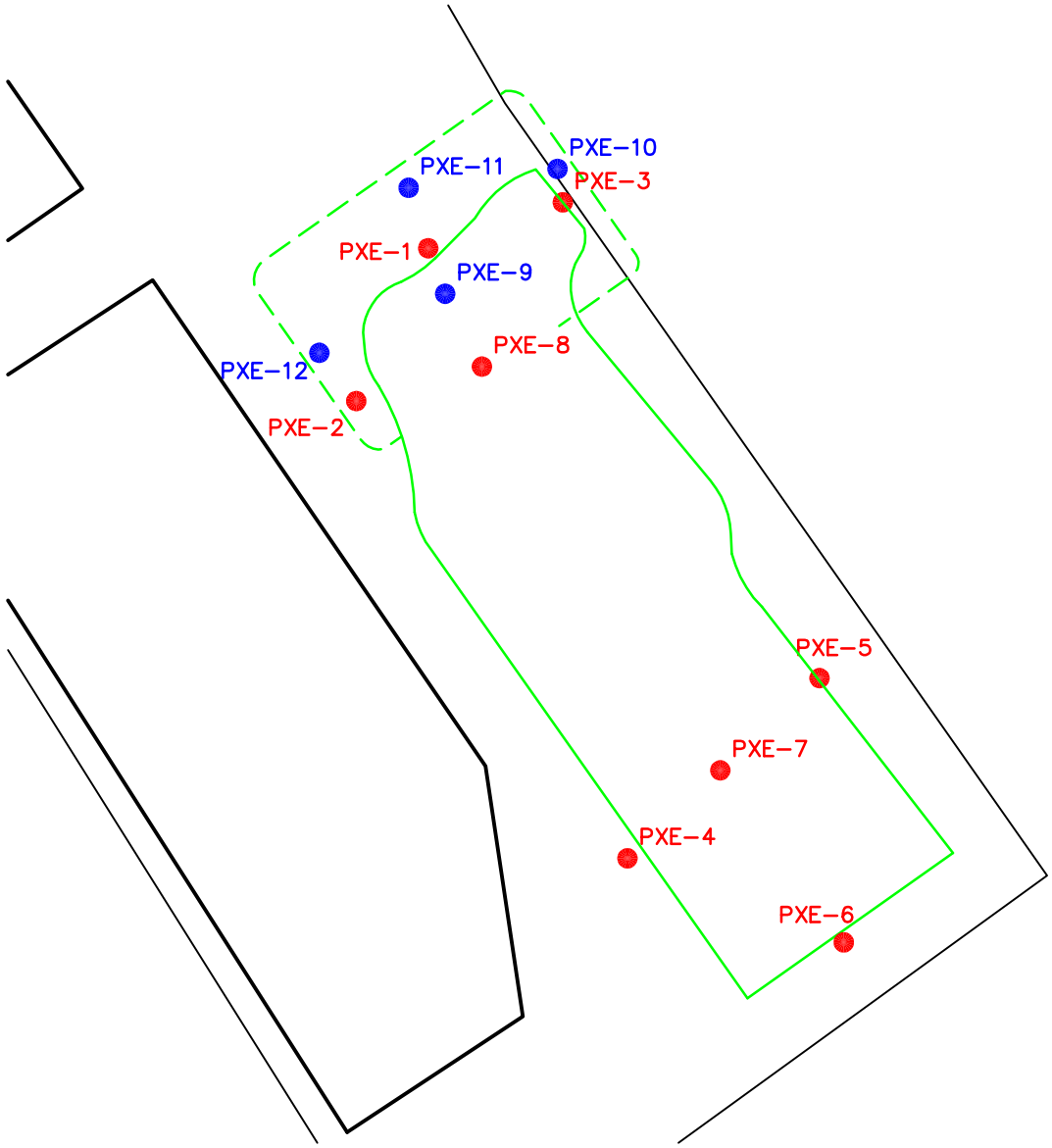
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L: REF*,SS
P: PAGESET/PLT–AP
10/29/03 CRA–85–TLF
05203008/05203N03.DWG

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "D"

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

FIGURE
8



LEGEND

PHASE 1

PHASE 2

POST-EXCAVATION SOIL SAMPLING LOCATION

0 10' 20'

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.

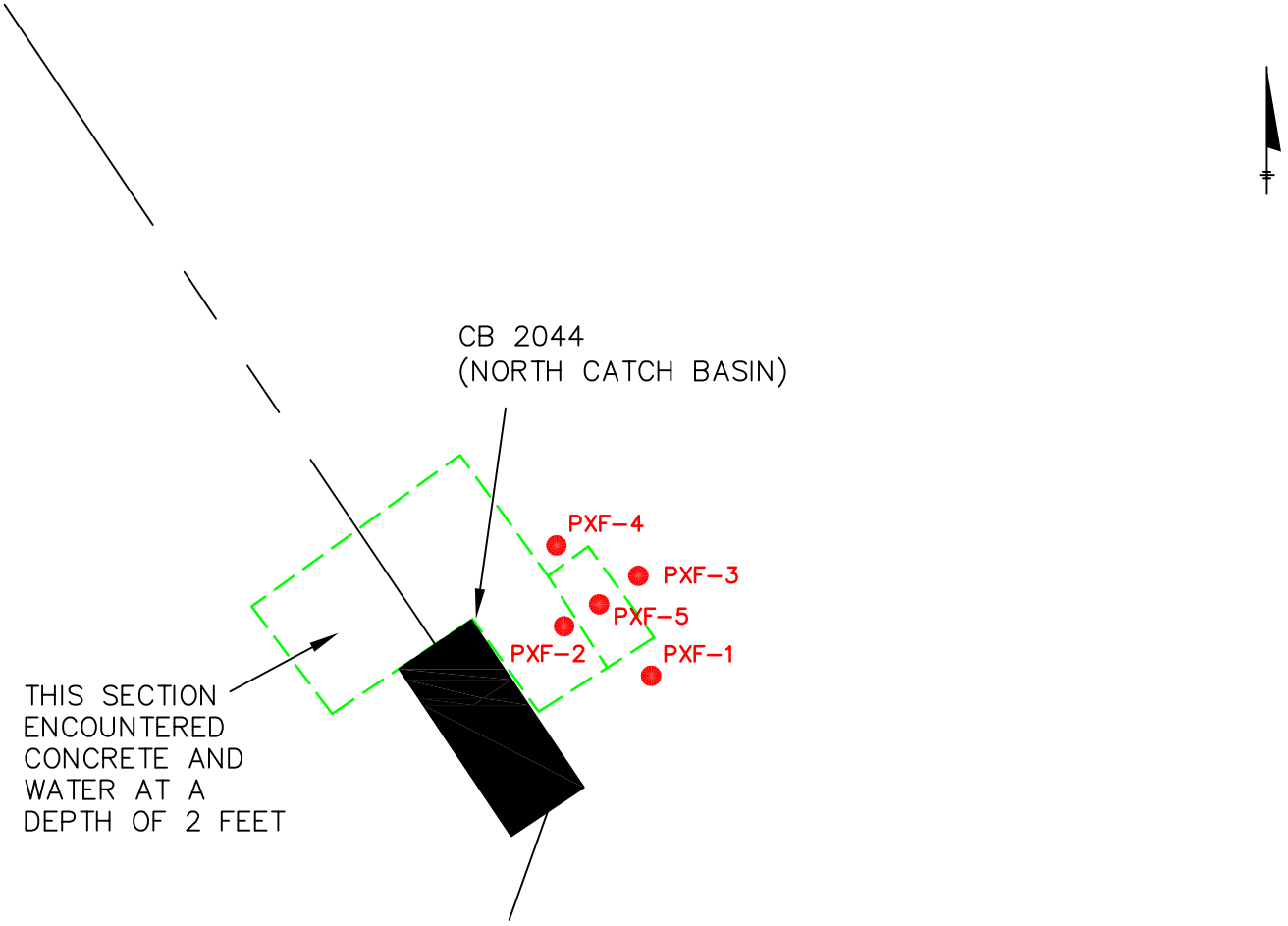
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P: PAGESET/PLT-AP
11/06/03 CRA-85-TLF
05203008/05203N04.DWG

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "E"

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

FIGURE 9



LEGEND

PHASE 1

PHASE 2

POST-EXCAVATION SOIL SAMPLING LOCATION

0 10' 20'

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.

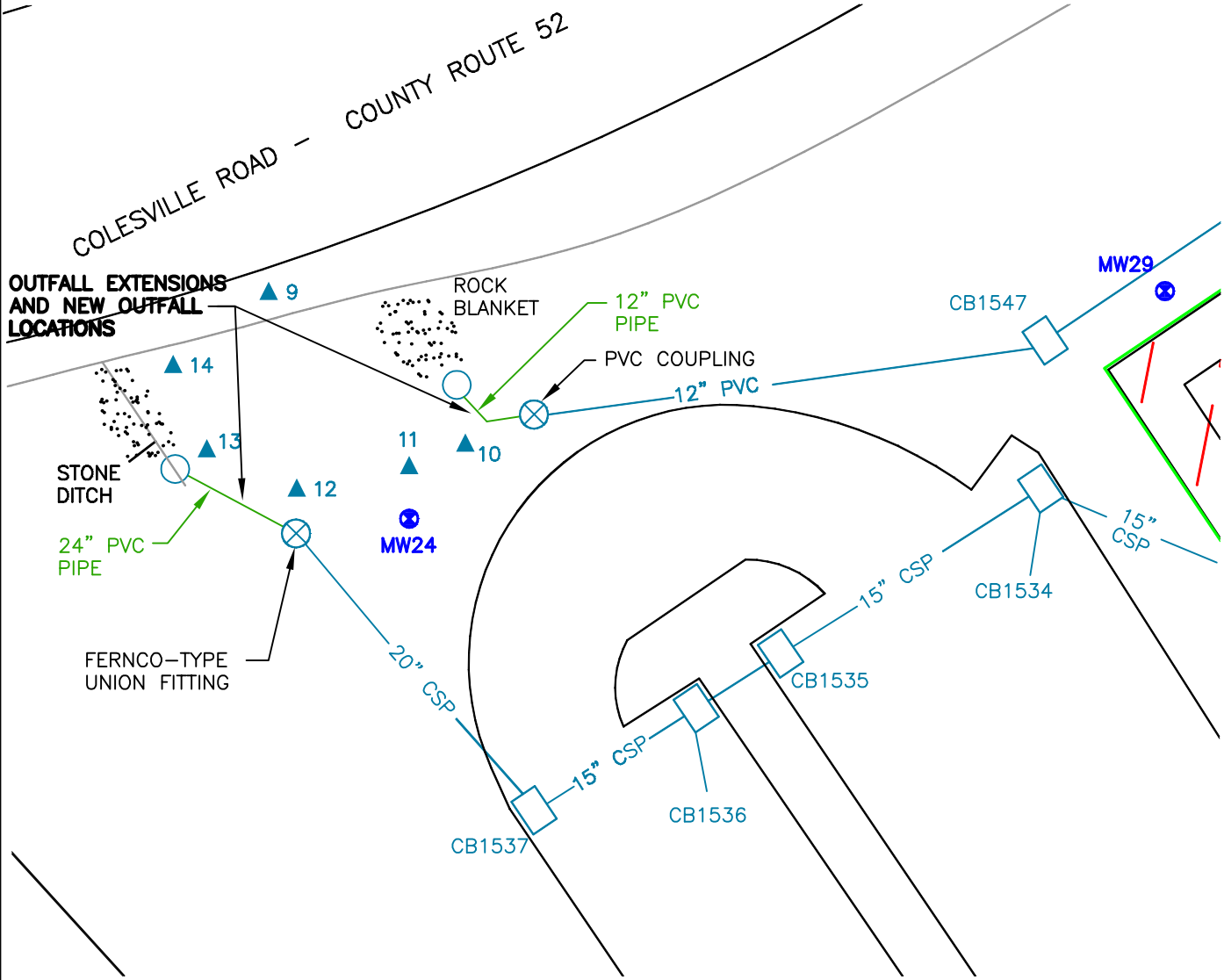
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L: REF*,SS
P: PAGESET/PLT-AP
10/29/03 CRA-85-TLF
05203008/05203N05.DWG

UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

SOIL EXCAVATION LOCATION "F"

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

FIGURE
10



LEGEND

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

SOURCE:

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

0 30' 60'

GRAPHIC SCALE

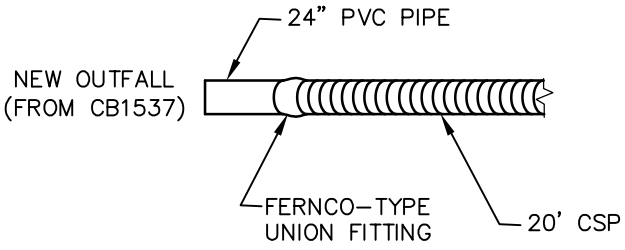
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

STORMWATER OUTFALL PIPE EXTENSION LOCATION

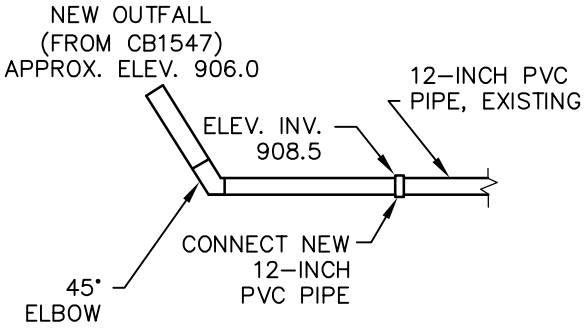
BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 11

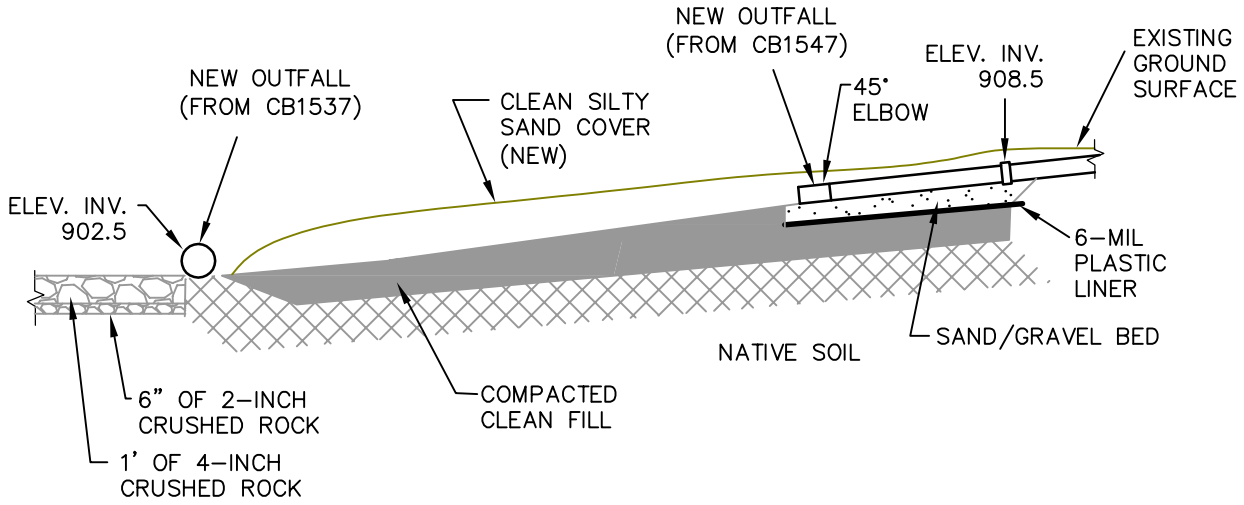
X:
L: OFF = REF*
P: PAGESET/PLT-AP
10/31/03 CRA-85-TLF
05203008/05203G04.DWG



PLAN VIEW



PLAN VIEW



CROSS-SECTION (LONG AXIS)

NOT TO SCALE

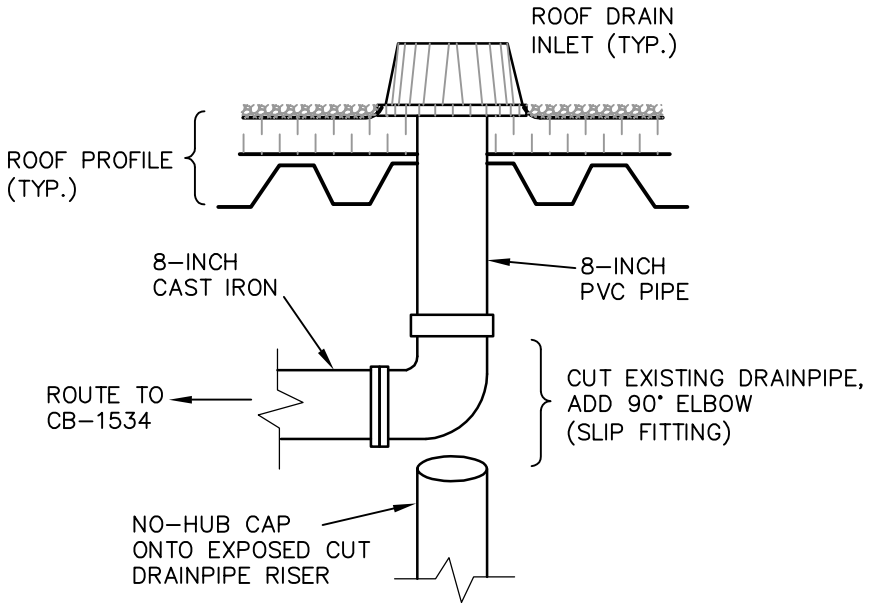
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

STORMATER OUTFALL EXTENSION DETAILS

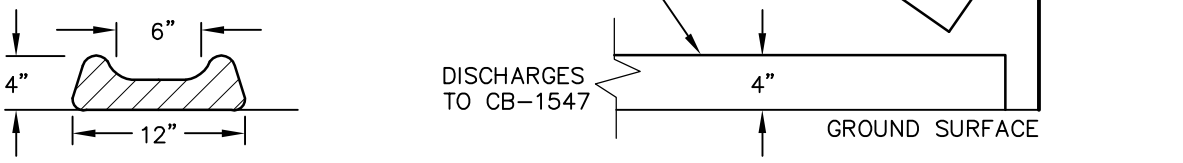
BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

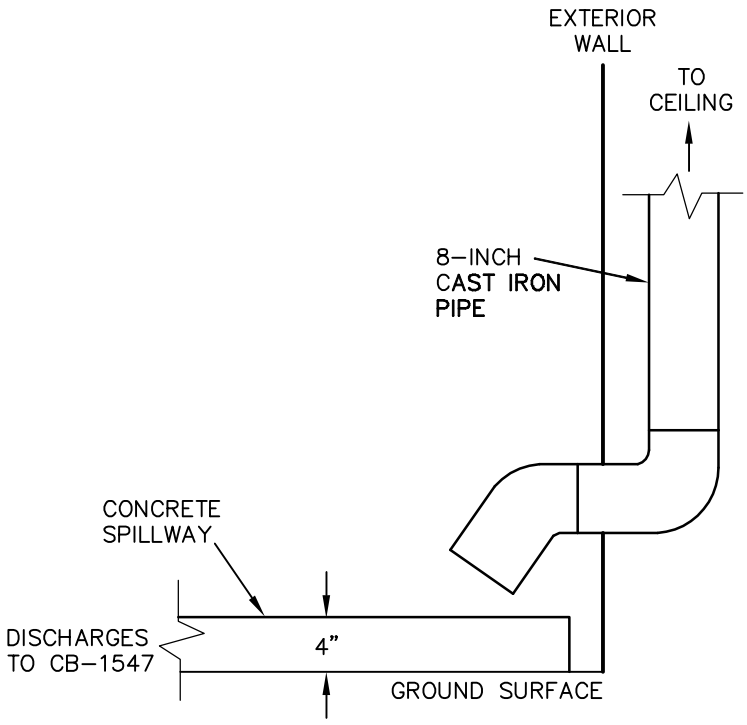
FIGURE
12

X:
L: OFF=REF*
P: PAGESET/PLT-AP
10/31/03 CRA-85-TLF
05203008/05203M02.DWG



ROOF DRAIN





SPILLWAY CROSS–SECTION

NOT TO SCALE

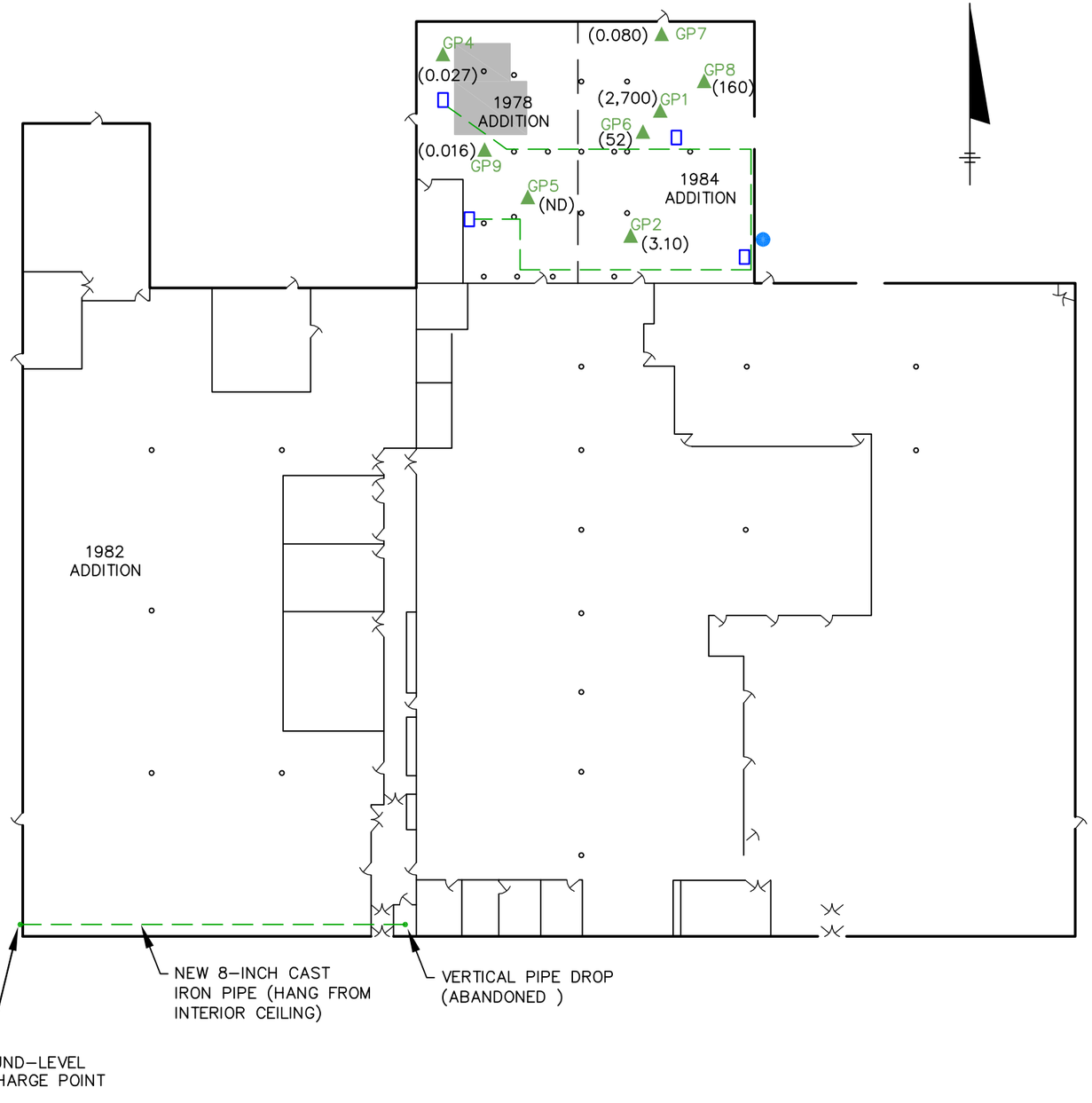
UNIVERSAL INSTRUMENTS CORPORATION
KIRKWOOD, NEW YORK
REMEDIAL CERTIFICATION REPORT

ROOF DRAIN LEADER ABANDONMENT AND DETAILS

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

FIGURE
13

X:
L: OFF=REF*
P: PAGESET/PLT–AP
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

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

FIGURE **14**

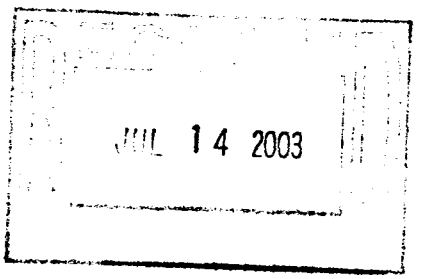
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P: PAGESET/PLT–BL
10/31/03 CRA–85–TLF
05203008/05203G06.DWG

Appendices

Columbia Analytical Services inc.

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

Mark Wilson
Client Service Manager

Enc.

1 Mustard St.• Suite 250 • Rochester, NY 14609 • Tele:(585)288-5380 • Fax:(585)288-8475

Columbia Analytical Services, inc.

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. Penny

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.

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2317270

Lab ID	Client ID
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

Columbia Analytical Services INC.
An Employee - Owned Company

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

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

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 ANALYZED	TIME ANALYZED	DILUTION
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

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: 07/01/03

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

SURROGATE RECOVERIES	QC LIMITS		
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	%

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

SURROGATE RECOVERIES	QC LIMITS		
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 ANALYZED	TIME ANALYZED	DILUTION
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

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: 07/01/03

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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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
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 %)		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 ANALYZED	TIME ANALYZED	DILUTION
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 **Order #:** 649825 **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

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: 07/01/03

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

SURROGATE RECOVERIES	QC LIMITS		
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
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

SURROGATE RECOVERIES	QC LIMITS		
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
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 %)	46	%

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

SURROGATE RECOVERIES	QC LIMITS		
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 ANALYZED	TIME ANALYZED	DILUTION
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 **Order #:** 650210 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 06/19/03 **Submission #:** R2317270

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

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 : 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 : 06/24/03			
DATE ANALYZED : 06/25/03			
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 %)	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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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	1.07	1.00	107	80 - 120	92331	MG/L
CHROMIUM	0.100 U	5.10	5.00	102	80 - 120	92331	MG/L
LEAD	0.100 U	5.39	5.00	108	80 - 120	92331	MG/L
SELENIUM	0.500 U	0.967	1.00	97	80 - 120	92331	MG/L
MERCURY	0.000300 U	0.00976	0.0100	98	80 - 120	92389	MG/L
ARSENIC	0.500 U	4.93	5.00	99	80 - 120	92394	MG/L
BARIUM	1.00 U	5.32	5.00	106	80 - 120	92394	MG/L
CADMIUM	0.100 U	1.07	1.00	107	80 - 120	92394	MG/L
CHROMIUM	0.100 U	5.12	5.00	102	80 - 120	92394	MG/L
LEAD	0.100 U	5.36	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
ELENIUM	0.500 U	0.974	1.00	97	80 - 120	92394	MG/L
ILVER	0.100 U	5.03	5.00	101	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
CYANIDE REACTIVITY	5.00 U	2.51	49.2	5	0 - 23	92217	MG/KG
SULFIDE REACTIVITY	50.0 U	172	105	164	42 - 213	92218	MG/KG

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 TCLP
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 651493 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Analytical Run** 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/03			
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 %)	101	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	100	%

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

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 655125 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Analytical Run** 92285

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/07/03			
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 %)	94	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	87	%

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

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
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 652547 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	111	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

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

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 651400

Dup Spiked Order No. : 651401

Client ID:

Test: 8270C TCLP

Analytical Units: UG/L

Run Number : 92340

			BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
1,4-DICHLOROBENZENE	1000	0	620	62	660	66	6	30	31 - 130
2,4-DINITROTOLUENE	1000	0	960	96	980	98	2	30	45 - 135
HEXACHLOROBENZENE	1000	0	980	98	996	100	2	30	56 - 130
HEXACHLOROBUTADIENE	1000	0	610	61	660	66	8	30	26 - 106
HEXACHLOROETHANE	1000	0	530	53	560	56	6	30	20 - 100
2-METHYLPHENOL	1000	0	700	70	720	72	3	30	41 - 130
3+4-METHYLPHENOL	2000	0	1400	70	1400	70	0	30	45 - 135
NITROBENZENE	1000	0	800	80	880	88	10	30	46 - 102
PENTACHLOROPHENOL	1000	0	830	83	860	86	4	30	27 - 130
2,4,6-TRICHLOROPHENOL	1000	0	821	82	893	89	8	30	48 - 111
2,4,5-TRICHLOROPHENOL	1000	0	780	78	830	83	6	30	50 - 114

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		
DECACHLOROBIPHENYL (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.

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 651515

Dup Spiked Order No. : 651516

Client ID:

Test: 8151A TCLP

Analytical Units: UG/L

Run Number : 92371

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE FOUND	BLANK SPIKE % REC.	BLANK SPIKE DUP. FOUND	BLANK SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
2,4-D	100	0	90.0	90	98.0	98	9	30	40 - 120
2,4,5-TP (SILVEX)	100	0	74.0	74	80.0	80	8	30	52 - 117

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 : 06/24/03			
DATE ANALYZED : 06/25/03			
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 %)	89	%

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. : 651210

Dup Spiked Order No. : 651211

Client ID:

Test: 8081A TCLP

Analytical Units: UG/L

Run Number : 92321

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE FOUND	BLANK SPIKE % REC.	BLANK SPIKE DUP. FOUND	BLANK SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
GAMMA-BHC (LINDANE)	20	0	20.0	100	20.0	100	0	30	59 - 111
ENDRIN	20	0	21.0	105	22.0	110	5	30	30 - 128
HEPTACHLOR	20	0	18.0	90	19.0	95	5	30	36 - 115
HEPTACHLOR EPOXIDE	20	0	19.0	95	19.0	95	0	30	72 - 106
METHOXYCHLOR	200	0	220	110	220	110	0	30	55 - 124

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.

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 8151A TCLP
Reported: 07/10/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 650871 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **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 %)	94	%

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. : 650638

Dup Spiked Order No. : 650639

Client ID:

Test: 8082 PCB'S

Analytical Units: UG/KG

Run Number : 92231

			BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
PCB 1254	170	0	171	103	152	91	12	30	70 - 130

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

ANALYTE		PQL	RESULT	UNITS
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

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

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
SOIL/SEDIMENT

Spiked Order No. : 650641

Dup Spiked Order No. : 650642

Client ID:

Test: 8082 PCB'S

Analytical Units: UG/KG

Run Number : 92232

			BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
PCB 1254	170	0	157	94	147	88	7	30	70 - 130

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

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: DOVER - KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature: K. Houston	Sampler's Printed Name: K. HOUSTON

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐8260 ☐624 ☐CLP	GCMS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	FULL TCLP (8 only)	REMARKS/ ALTERNATE DESCRIPTION
STOCKPILE #2	649F24-26	6/17/03	1700	SOIL	4								X	
STOCKPILE #3	25-27	6/17/03	1700	SOIL	4								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr X ~~5-day~~
____ STANDARD
4 DAY (10)
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X 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
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: 17270

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: K. Houston	Signature:	Signature	Signature	Signature	Signature
Printed Name: K. HOUSTON	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 6/17/03 1700	Date/Time: 6/17/03 2315	Date/Time	Date/Time	Date/Time	Date/Time

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

SCOC-1102-08

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: DOVER KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: C

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)		FULL TCLP (VOA, SVOA, PEST, PCB, METALS)							REMARKS/ ALTERNATE DESCRIPTION
STOCK PILE #1	649467	10/16/03	1600	SOIL	4									X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
24 hr ___ 48 hr X 5 day
_____ STANDARD
4044
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X 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
Edata ___ Yes ___ No

INVOICE INFORMATION
PO# 05203
BILL TO
SUBMISSION # 223/7270

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kelly S. Houghton	Signature:	Signature	Signature	Signature	Signature
Printed Name: KELLY C. HOUGHTON	Printed Name: Heather Lunga	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm: ERS	Firm	Firm	Firm	Firm
Date/Time: 10/16/03 1430	Date/Time: 10/17/03 1000	Date/Time	Date/Time	Date/Time	Date/Time

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client [illegible] Submission Number 82-17270.

Cooler received on [illegible] by [illegible] **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:	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: [illegible]

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: [illegible] by: [illegible]

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_2SO_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_2SO_4

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

Other Comments:

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

PAGE 1 OF 1

SR #

CAS Contact

Project Name: DOVER - KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL, 8 SOUTH RIVER RD, CRANBURY NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature: K. Houston	Sampler's Printed Name: K. HOUSTON

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	FULL TCLP (Reactivity)								REMARKS/ ALTERNATE DESCRIPTION
STOCKPILE #4	65040 11	6/18/03	1430	SOIL	4							X									

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

92

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY) (24)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD Y 4/DAY
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X 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
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO
SUBMISSION #: 17270

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: K. Houston	Signature: 7491	Signature	Signature	Signature	Signature
Printed Name: KELLY S. HOUSTON	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm	Firm	Firm	Firm	Firm
Date/Time: 6/18/03 1715	Date/Time	Date/Time	Date/Time: 6/19/03 1500	Date/Time	Date/Time

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

SCOC-1102-08

APPENDIX C

Post-Excavation Soil Sample Analytical Reports

Columbia Analytical Services, Inc.

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

Mark Wilson
Client Service Manager

Enc.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(585)288-5380 • Fax:(585)288-8475

Columbia Analytical Services, Inc.

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-A-1
SUBMISSION R2317269
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE:06/18/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/14/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y___X_ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
649458	PX-A-1	SOIL	8260, %sol	6/16/03	6/17/03			
649459	PX-A-2	SOIL	8260, %sol	6/16/03	6/17/03			
649460	PX-A-3	SOIL	8260, %sol	6/16/03	6/17/03			
649461	PX-A-4	SOIL	8260, %sol	6/16/03	6/17/03			
649462	PX-A-5	SOIL	8260, %sol	6/16/03	6/17/03			
649463	PX-A-6	SOIL	8260, %sol	6/16/03	6/17/03			
649464	PX-A-7	SOIL	8260, %sol	6/16/03	6/17/03			
649465	PX-A-8	SOIL	8260, %sol	6/16/03	6/17/03			

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ACCREDITED IN ACCORDANCE WITH nelac

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

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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

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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 _____ OF _____

SR #

CAS Contact

Project Name: DOVER - KIRKWOOD
Project Number: 05203
Project Manager: GREG ALBRIGHT
Report CC:
Company/Address: BBL
8 SOUTH RIVER RD
CRANBURY, NJ 08512
Phone #: 609-860-0590
FAX#: 609-860-8007
Sampler's Signature: Kelly S. Houston
Sampler's Printed Name: KELLY S HOUSTON

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260 VOC SCL
PX-A-	699458	6/4/03	1110	SOIL	3	X
PX-A-2	59		1115		3	X
PX-A-3	60		1125		3	X
PX-A-4	61		1125		3	X
PX-A-5	62		1120		3	X
PX-A-6	63		1110		3	X
PX-A-7	64		1115		3	X
PX-A-8	65		1120		3	X

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION: DRY WEIGHT BASIS

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr X 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
X IV. Data Validation Report with Raw Data
_____ V. Specialized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
05203
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

SUBMISSION # 123726 9

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kelly S. Houston	Signature: Heather Wiegand	Signature	Signature	Signature	Signature
Printed Name: Kelly S. Houston	Printed Name: Heather Wiegand	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 6/4/03 1600	Date/Time: 6/17/03 10:22	Date/Time	Date/Time	Date/Time	Date/Time

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client BBS Submission Number 82-17219

Cooler received on drinks by DP 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:	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: drinks 1015

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 : drinks by: DP

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_2SO_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_2SO_4

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-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	%

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

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 **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	%

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

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 **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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	101	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

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

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 **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	%

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

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 **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	%

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

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 **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	%

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

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 **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	%

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

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 **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

SURROGATE RECOVERIES	QC LIMITS		
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 FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS 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
Date Received: 06/17/03
Order #: 649459
Submission #: R2317269
Sample Matrix: SOIL/SEDIMENT

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

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

Columbia Analytical Services inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.

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.

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-C-1
SUBMISSION R2317315
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/25/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE:07/07/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y___X__ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
650559	PX-C-1	SOIL	8260	6/19/03	6/20/03			
650560	PX-C-2	SOIL	8260	6/19/03	6/20/03			
650561	PX-C-3	SOIL	8260	6/19/03	6/20/03			
650562	PX-C-4	SOIL	8260	6/19/03	6/20/03			
650563	PX-C-5	SOIL	8260	6/19/03	6/20/03			
650564	PX-C-6	SOIL	8260	6/19/03	6/20/03			
650565	PX-C-7	SOIL	8260	6/19/03	6/20/03			
650566	PX-C-8	SOIL	8260	6/19/03	6/20/03			
650567	PX-C-9	SOIL	8260	6/19/03	6/20/03			
650568	PX-C-10	SOIL	QC 8260	6/19/03	6/20/03			

Columbia Analytical Services INC.

An Employee - Owned Company

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

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

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, INC.
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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
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY NJ 08512	
Phone #: 609 - 860 - 0590	FAX#: 609 - 860 - 8007
Sampler's Signature: L. Houston	Sampler's Printed Name: L HOUSTON

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8260 5ml VOA's	REMARKS/ ALTERNATE DESCRIPTION
PX-C-1	650559	6/19/03	1100	SOIL	3								X	
PX-C-2	60		1105										X	
PX-C-3	61		1110										X	
PX-C-4	62		1115										X	
PX-C-5	63		1130										X	
PX-C-6	64		1140										X	
PX-C-7	65		1205										X	
PX-C-8	66		1150										X	
PX-C-9	67		1125										X	
PX-C-10	68	↓	1200	↓	↓								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr X 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
X IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: L2031735

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: L. Houston	Signature: B Smith	Signature:	Signature:	Signature:	Signature:
Printed Name: LEE S. HOUSTON	Printed Name: B Smith	Printed Name:	Printed Name: Heather Conaging	Printed Name:	Printed Name:
Firm: BBL	Firm: Velocity Express	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 6/19/03 1600	Date/Time: 6/19/03 16:22	Date/Time:	Date/Time: 6/20/03 1115	Date/Time:	Date/Time:

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client GBL Submission Number R2-17315

Cooler received on 6/20/03 by: [illegible] COURIER: CAS UPS FEDEX CD&L Velocity 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:	1				
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: 6/20/03 1120

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: 6/20/03 by: [illegible]

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_2SO_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_2SO_4

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	%

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

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 **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	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	%

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-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	%
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-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

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

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-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 %)	98	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	89	%

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	%

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-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			
ANALYTICAL DILUTION: 80.80			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	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			
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 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	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 FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	MATRIX SPIKE DUP. RPD	QC LIMITS RPD	QC LIMITS 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
Date Received: 06/20/03
Order #: 650568
Submission #: R2317315
Sample Matrix: SOIL/SEDIMENT

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

Columbia Analytical Services, Inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.

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 E. 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.

SDG #: PX-E-1
SUBMISSION R2317284
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/18/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/15/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y___X__ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
649727	PX-E-1	SOIL	QC 8260	6/17/03	6/18/03			
649730	PX-E-2	SOIL	8260	6/17/03	6/18/03			
649731	PX-E-3	SOIL	8260	6/17/03	6/18/03			
649733	PX-E-4	SOIL	8260	6/17/03	6/18/03			
649734	PX-E-5	SOIL	8260	6/17/03	6/18/03			
649736	PX-E-6	SOIL	8260	6/17/03	6/18/03			
649738	PX-E-7	SOIL	8260	6/17/03	6/18/03			
649739	PX-E-8	SOIL	8260	6/17/03	6/18/03			
649744	PX-A1-1	SOIL	8260	6/17/03	6/18/03			
649746	PX-A1-2	SOIL	8260	6/17/03	6/18/03			
649748	PX-A1-3	SOIL	8260	6/17/03	6/18/03			

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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

Columbia Analytical Services INC.
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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

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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
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY NJ 08512	
Phone #: 609-860-0570	FAX#: 609-860-8007
Sampler's Signature: Kelly S. Houston	Sampler's Printed Name: KELLY S. HOUSTON

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8260 SSPL VOAs	REMARKS/ ALTERNATE DESCRIPTION
PX-E-1	649727	6/17/03	1550	SOIL	3								X	
PX-E-2	30		1555		3								X	
PX-E-3	31		1600		3								X	
PX-E-4	33		1620		3								X	
PX-E-5	34		1625		3								X	
PX-E-6	36		1630		3								X	
PX-E-7	38		1615		3								X	
PX-E-8	39		1610		3								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

8

See QAPP ☐

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
___ 24 hr X 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
X IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION # L3172F4

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kelly S. Houston	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: KELLY S. HOUSTON	Printed Name: Heather Lucas	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: BBL	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 6/17/03 1700	Date/Time: 6/18/03 930	Date/Time:	Date/Time:	Date/Time:	Date/Time:

SCOC-1102-08

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: DOVER - HARRWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature: Kelly Houston	Sampler's Printed Name: KELLY S. HOUSTON

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8260	TCL VOA's	REMARKS/ ALTERNATE DESCRIPTION
PX-A1-1	699744	6/17/03	0810	SOIL	3								X		
PX-A1-2	46		0815		3								X		
PX-A1-3	48	↓	0820	↓	3								X		

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr X 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
X IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: 7CC3172F4

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kelly Houston	Signature:	Signature	Signature	Signature	Signature
Printed Name: KELLY S. HOUSTON	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm:	Firm	Firm	Firm	Firm
Date/Time: 6/17/03 1700	Date/Time: 6/18/03 935	Date/Time	Date/Time	Date/Time	Date/Time

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client BBi Submission Number K2-17284.

Cooler received on 4/16/03 by: NP 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: 4/16/03 945

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: 4/16/03 by: NP

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_2SO_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_2SO_4

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-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 RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
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-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	%

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-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	%

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

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 **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	%

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

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 **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	%

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

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 **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	%

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

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 **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

SURROGATE RECOVERIES	QC LIMITS		
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 #:** R2317284

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 **Order #:** 649734 **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	85.5	%	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
Date Received: 06/18/03
Order #: 649736
Submission #: R2317284
Sample Matrix: SOIL/SEDIMENT

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

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-I

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

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

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

Columbia Analytical Services, Inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.

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.

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.

CAS ASP/CLP BATCHING FORM

SDG #: PX-A1-4
SUBMISSION R2317357
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/25/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/22/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y__X_ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
651554	PX-A1-4	SOIL	8260	6/24/03	6/25/03			
651555	PX-A1-5	SOIL	8260	6/24/03	6/25/03			
651556	PX-A-9	SOIL	8260	6/24/03	6/25/03			

Columbia Analytical Services INC.

An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

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

Columbia Analytical Services INC.
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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

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

PAGE 1 OF _____

CAS Contact

Project Name: DOVER - KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL, 8 SOUTH RIVER RD, CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: K. GWOZDZ

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐8260 ☐624 ☐CLP	GCMS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TAL + TARGET list ANALYTE
PX-A1-4	651554	6/24/03	900	Soil	3							X	
PX-A1-5	55	6/24/03	910	Soil	3							X	
PX-A-9	56	6/24/03	1300	Soil	3							X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr X 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
X IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: 17357

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: KEN GWOZDZ	Printed Name: B Smith	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm: Velocity Express	Firm	Firm	Firm	Firm
Date/Time: 6/24/03 16:20	Date/Time: 6/24/03 16:21	Date/Time	Date/Time: 6/25/03 1010	Date/Time	Date/Time

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client 3Rs Submission Number R2-17357

Cooler received on 4/25/03 by: [illegible] 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:	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: 4/25/03 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: 4/25/03 by: [illegible]

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_2SO_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_2SO_4

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

SURROGATE RECOVERIES	QC LIMITS		
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			
ANALYTICAL DILUTION: 79.00			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	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	%

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
Date Received: 06/25/03
Order #: 651554
Submission #: R2317357
Sample Matrix: SOIL/SEDIMENT

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 UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
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	%	06/25/03	11:33	1.0

Columbia Analytical Services inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.

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 28 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 F. Peasy

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.

SDG #: PX-B-1
SUBMISSION R2317299
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/20/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/16/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y__X_ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
650174	PX-B-1	SOIL	QC 8260, %SOL	6/18/03	6/19/03			
650175	PX-B-2	SOIL	8260, %SOL	6/18/03	6/19/03			
650176	PX-B-3	SOIL	8260, %SOL	6/18/03	6/19/03			
650177	PX-B-4	SOIL	8260, %SOL	6/18/03	6/19/03			
650178	PX-B-5	SOIL	8260, %SOL	6/18/03	6/19/03			
650179	PX-B-6	SOIL	8260, %SOL	6/18/03	6/19/03			
650180	PX-B-7	SOIL	8260, %SOL	6/18/03	6/19/03			
650181	PX-B-8	SOIL	8260, %SOL	6/18/03	6/19/03			
650182	PX-B-9	SOIL	8260, %SOL	6/18/03	6/19/03			
650183	PX-B-10	SOIL	8260, %SOL	6/18/03	6/19/03			

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

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

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

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

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

PAGE 1 OF 1

SDG #

CAS Contact

Project Name: DOVER - KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL, 6 SOUTH RIVER RD, CRANBURY, NJ 08512	
Phone #: 609 - 860 - 0590	FAX#: 609 - 860 - 8007
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES ☐ 8081 ☐ 608 ☐ CLP
PCB's ☐ 8082 ☐ 608 ☐ CLP
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
8260 SOIL VOAs
TAL/TCLP GLASS

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	REMARKS/ ALTERNATE DESCRIPTION
PX-B-1	650174	6/18/03	1630	Soil	3	
PX-B-2	75		1640			
PX-B-3	76		1645			
PX-B-4	77		1710			
PX-B-5	78		1720			
PX-B-6	79		1730			
PX-B-7	80		1735			
PX-B-8	81		1745			
PX-B-9	82		1751			
PX-B-10	83		1810			

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr X 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
X IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION # 223729

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kelly S. Hoxton	Signature: 7491	Signature	Signature	Signature	Signature
Printed Name: KELLY S. HOXTON	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm	Firm	Firm	Firm	Firm
Date/Time: 6/18/03 1715	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client BBB Submission Number 17249

Cooler received on 6/19/03 by: [illegible] 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: 6/19/03 1000

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: 6/19/03 by: [illegible]

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_2SO_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_2SO_4

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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	93	%

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/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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	97	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

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/SEDIMEN
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	%

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

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/SEDIMEN
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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	99	%
TOLUENE-D8	(83 - 117 %)	97	%
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-6

Date Sampled : 06/18/03 **Order #:** 650179 **Sample Matrix:** SOIL/SEDIMEN
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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	98	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	108	%

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

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/SEDIMEN
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	%

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-7

Date Sampled : 06/18/03 **Order #:** 650180 **Sample Matrix:** SOIL/SEDIMEN
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	%

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-8

Date Sampled : 06/18/03 **Order #:** 650181 **Sample Matrix:** SOIL/SEDIMEN
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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	%
TOLUENE-D8	(83 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	110	%

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-9

Date Sampled : 06/18/03 **Order #:** 650182 **Sample Matrix:** SOIL/SEDIMEN
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	%

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-9

Date Sampled : 06/18/03 **Order #:** 650182 **Sample Matrix:** SOIL/SEDIMEN
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	%

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

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/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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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 FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS 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 Blasland, 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 FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
1,1-DICHLOROETHENE	21700	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

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
Date Received: 06/19/03
Order #: 650174
Submission #: R2317299
Sample Matrix: SOIL/SEDIMENT

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 : PX-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 : PX-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 UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
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
Date Received: 06/19/03
Order #: 650179
Submission #: R2317299
Sample Matrix: SOIL/SEDIMENT

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-B-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
Date Received: 06/19/03
Order #: 650183
Submission #: R2317299
Sample Matrix: SOIL/SEDIMENT

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

Columbia Analytical Services inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.

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 Kenny

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-D-1
SUBMISSION R2317340
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/24/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/20/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y__X_ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
651153	PX-D-1	SOIL	QC 8260, %SOL	6/23/03	6/24/03			
651154	PX-D-2	SOIL	8260, %SOL	6/23/03	6/24/03			
651155	PX-D-3	SOIL	8260, %SOL	6/23/03	6/24/03			
651156	PX-D-4	SOIL	8260, %SOL	6/23/03	6/24/03			
651157	PX-D-5	SOIL	8260, %SOL	6/23/03	6/24/03			
651158	PX-D-6	SOIL	8260, %SOL	6/23/03	6/24/03			
651159	PX-D-7	SOIL	8260, %SOL	6/23/03	6/24/03			
651160	PX-D-8	SOIL	8260, %SOL	6/23/03	6/24/03			
651161	PX-F-1	SOIL	8260, %SOL	6/23/03	6/24/03			
651162	PX-F-2	SOIL	8260, %SOL	6/23/03	6/24/03			
651163	PX-F-3	SOIL	8260, %SOL	6/23/03	6/24/03			
651164	PX-F-4	SOIL	8260, %SOL	6/23/03	6/24/03			
651165	PX-F-5	SOIL	8260, %SOL	6/23/03	6/24/03			

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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

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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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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

Columbia Analytical Services, Inc.
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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 ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: KEN EWOZD'Z

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐8260 ☐624 ☐CLP	GCMS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SVOA 8260 + VOA's + WATER CONTENT								REMARKS/ ALTERNATE DESCRIPTION
PX-D-1		6/23/03	10:25	SOIL	3								X								54
PX-D-2			10:30		3								X								55
PX-D-3			10:35		3								X								56
PX-D-4			10:40		3								X								57
PX-D-5			10:45		3								X								58
PX-D-6			10:50		3								X								59
PX-D-7			10:55		3								X								60
PX-D-8			11:00		3								X								61
PX-E-1			13:45		3								X								62
PX-E-2			13:55		3								X								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Saw QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr X 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
X IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION # 1123173Y0

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature 7491	Signature	Signature	Signature	Signature
Printed Name: KEN EWOZDZ	Printed Name	Printed Name	Printed Name: Heather Lanigan	Printed Name	Printed Name
Firm: BBL	Firm	Firm	Firm: CAS	Firm	Firm
Date/Time: 6/23/03 1600	Date/Time	Date/Time	Date/Time: 6/24/03 1120	Date/Time	Date/Time

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: DOVER-KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD. CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: KEN GWOZDZ

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's 8260 CLP	GCMS SVOA's 8270 8250 CLP	GC VOA's 8021 601/602	PESTICIDES 8081 608 CLP	PCB's 8082 608 CLP	METALS, TOTAL	METALS, DISSOLVED (List in comments below)	SSPL 8260 VOAs + naphthalene	REMARKS/ ALTERNATE DESCRIPTION
PX-F-3	651163	6/23/03	14:01	SOIL	3								X	
PX-F-4	64	↓	14:10	↓	3								X	
PX-F-5	65	↓	14:15	↓	3								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

J

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr X 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
X IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: KEN GWOZDZ	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: BBL	Firm: 7491	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 6/23/03 1600	Date/Time:	Date/Time:	Date/Time: 6/24/03 1120	Date/Time:	Date/Time:

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

SCDC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client ELA Submission Number 22-17340.

Cooler received on 6/24/03 by: DSP **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:	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: 6/24/03 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: 6/24/03 by: DSP

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_2SO_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_2SO_4

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

SURROGATE RECOVERIES	QC LIMITS		
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

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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	117	%

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-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	%
TOLUENE-D8	(83 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	123	%

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-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	%

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-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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	115	%
TOLUENE-D8	(83 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	115	%

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-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	%

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-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	%

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-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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	116	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/22/03

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 **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	%

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-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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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 :
Date Received:
Order #: 651496
Submission #:
Sample Matrix: SOIL/SEDIMENT
Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/24/03			
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 %)	103	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	83	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 07/21/03

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :
Date Received:
Order #: 656592
Submission #:
Sample Matrix: SOIL/SEDIMENT
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	%

COLUMBIA ANALYTICAL SERVICES

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

Spiked Order No. : 651153 Blasland, Bouck, & Lee, Inc.

Client ID: PX-D-1

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92369

Percent Solid : 88.0

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS 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
Date Received: 06/24/03
Order #: 651164
Submission #: R2317340
Sample Matrix: SOIL/SEDIMENT

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

Columbia Analytical Services inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.
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. DKeyes

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-B-11
SUBMISSION R2317402
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/26/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/23/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y__X_ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITIOI
652000	PX-B-11	SOIL	QC 8260	6/25/03	6/26/03			
652001	PX-B-12	SOIL	8260	6/25/03	6/26/03			
652002	PX-B-13	SOIL	8260	6/25/03	6/26/03			
652003	PX-B-14	SOIL	8260	6/25/03	6/26/03			
652004	PX-B-15	SOIL	8260	6/25/03	6/26/03			
652005	PX-B-16	SOIL	8260	6/25/03	6/26/03			
652006	PX-B-17	SOIL	8260	6/25/03	6/26/03			
652007	PX-B-18	SOIL	8260	6/25/03	6/26/03			

Columbia Analytical Services INC.
An Employee - Owned Company

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

Columbia Analytical Services, INC.
An Employee - Owned Company

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 INC.
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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 _____

SR #

CAS Contact

Project Name: DOVER-KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL	
8 SOUTH RIVER RD	
CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: K. GWOZDZ

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GCMS VOA's ☐8260 ☐624 ☐CLP
GCMS SVOA's ☐8270 ☐625 ☐CLP
GC VOA's ☐8021 ☐601/602
PESTICIDES ☐8081 ☐608 ☐CLP
PCB's ☐8082 ☐608 ☐CLP
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
SPLP TCLP
0260 + MASTER LIST

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	METALS, DISSOLVED	REMARKS/ ALTERNATE DESCRIPTION
PX-B-11	652000	6/25/03	1020	SOIL	X	
PX-B-12	01	6/25/03	1035	SOIL	X	
PX-B-13	02	6/25/03	1045	SOIL	X	
PX-B-14	03	6/25/03	1325	SOIL	X	
PX-B-15	04	6/25/03	1335	SOIL	X	
PX-B-16	05	6/25/03	1345	SOIL	X	
PX-B-17	06	6/25/03	1400	SOIL	X	
PX-B-18	07	6/25/03	1410	SOIL	X	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr X 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
X IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION # 22317402

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: K GWOZDZ	Printed Name:	Printed Name:	Printed Name: Heather Wilson	Printed Name:	Printed Name:
Firm: BBL	Firm:	Firm:	Firm: QA	Firm:	Firm:
Date/Time: 6/25/03 1625	Date/Time: 1491	Date/Time:	Date/Time: 6/26/03 1030	Date/Time:	Date/Time:

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

ACOC-1159-08

Cooler Receipt And Preservation Check Form

Project/Client BBL Submission Number K2-17402.

Cooler received on 6/20/03 by JJD **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:	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: 6/20/03 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: 6/20/03 by: JJD

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_2SO_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_2SO_4

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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	119	%

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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	106	%
TOLUENE-D8	(83 - 117 %)	112	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	110	%

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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	113	%
TOLUENE-D8	(83 - 117 %)	92	%
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-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	%
TOLUENE-D8	(83 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	125 *	%

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 #:** 652541 **Sample Matrix:** SOIL/SEDIMENT
Date Received: **Submission #:** **Percent Solid:** 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 06/26/03			
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 %)	111	%
TOLUENE-D8	(83 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	116	%

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

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 #:** 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: PX-B-11

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 92491

Percent Solid : 88.8

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
1,1-DICHLOROETHENE	4400	0	5760	131 *	6660	151 *	14	30	43 - 123
TRICHLOROETHENE	4400	0	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

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 : PX-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 : PX-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

Columbia Analytical Services, Inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services Inc.
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. MKeyes

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-C-11	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2317425	DISKETTE REQUESTED: Y__X_ N____	DATE DUE: 07/24/03
CLIENT: Blasland, Bouck, & Lee, Inc.	DATE: 06/30/03	PROTOCOL: 846
CLIENT REP: Mark Wilson	CUSTODY SEAL: PRESENT/ABSENT:	SHIPPING No.:
PROJECT: DOVER-KIRKWOOD 05203	CHAIN OF CUSTODY: PRESENT/ABSENT:	SUMMARY PKG: Y__X_ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
652398	PX-C-11	SOIL	8260, %SOL	6/26/03	6/27/03			
652399	PX-C-12	SOIL	8260, %SOL	6/26/03	6/27/03			
652400	PX-C-13	SOIL	8260, %SOL	6/26/03	6/27/03			
652401	PX-C-14	SOIL	8260, %SOL	6/26/03	6/27/03			
652402	PX-C-15	SOIL	8260, %SOL	6/26/03	6/27/03			
652403	PX-D-9	SOIL	8260, %SOL	6/26/03	6/27/03			
652404	PX-D-10	SOIL	8260, %SOL	6/26/03	6/27/03			
652405	PX-D-11	SOIL	8260, %SOL	6/26/03	6/27/03			
652406	PX-D-12	SOIL	8260, %SOL	6/26/03	6/27/03			
652408	PX-D-13	SOIL	8260, %SOL	6/26/03	6/27/03			
652409	PX-D-14	SOIL	8260, %SOL	6/26/03	6/27/03			

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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

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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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: DOVER - KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: K. GWOZDZ

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	SVOC 8270	REMARKS/ ALTERNATE DESCRIPTION
PX-C-11	652398	6/26/03	825	SOIL	3	X	
PX-C-12	99	6/26/03	835	SOIL	3	X	
PX-C-13	400	6/26/03	840	SOIL	3	X	
PX-C-14	01	6/26/03	845	SOIL	3	X	
PX-C-15	02	6/26/03	855	SOIL	3	X	
PX-D-9	03	6/26/03	1020	SOIL	3	X	
PX-D-10	04	6/26/03	1025	SOIL	3	X	
PX-D-11	05	6/26/03	1030	SOIL	3	X	
PX-D-12	06	6/26/03	1140	SOIL	3	X	
PX-D-13	08	6/26/03	1145	SOIL	3	X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Spec QAPP ☐

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
24 hr X 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
X IV. Data Validation Report with Raw Data
V. Specialized Forms / Custom Report
Edata Yes No

INVOICE INFORMATION
PO#
BILL TO
SUBMISSION #

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: KEN GWOZDZ	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: BBL	Firm	Firm	Firm: CAS	Firm	Firm
Date/Time: 6/26/03 16:45	Date/Time: 7491	Date/Time	Date/Time: 6/27/03 1110	Date/Time	Date/Time

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

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SR #

CAS Contact

Project Name: DOVER-KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD. CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: K. GWOZDZ

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐8260 ☐624 ☐CLP	GCMS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSL VOA's 8260 + hATEX + CVAA										REMARKS/ ALTERNATE DESCRIPTION
PX-D-14	652409	6/26/03	11:50	SOIL	3								X										

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
24 hr X 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
X IV. Data Validation Report with Raw Data
V. Specialized Forms / Custom Report
Edata Yes No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: [signature]	Signature: [signature] 7491	Signature:	Signature: [signature]	Signature:	Signature:
Printed Name: K. GWOZDZ	Printed Name:	Printed Name:	Printed Name: Heather Lovejoy	Printed Name:	Printed Name:
Firm: BBL	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 6/26/03 1640	Date/Time:	Date/Time:	Date/Time: 6/27/03 1110	Date/Time:	Date/Time:

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client BBL Submission Number 02-17425

Cooler received on 10/27/03 by: DSF **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:	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: 10/27/03 1110

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: 10/27/03 by: DSF

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_2SO_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_2SO_4

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

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	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	129 *	%

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 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

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	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	112	%

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	%
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

SURROGATE RECOVERIES	QC LIMITS		
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			
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

SURROGATE RECOVERIES	QC LIMITS		
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			
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	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	119	%

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	(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	%
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			
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	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

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: 8260B TCL

Analytical Units: UG/KG

Run Number : 92576

Percent Solid : 90.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS 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

DATE ANALYZED : 06/27/03
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
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

DATE ANALYZED : 07/08/2003
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
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 : 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	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 #:** RZ3I74Z5

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
Date Received: 06/27/03
Order #: 652408
Submission #: R2317425
Sample Matrix: SOIL/SEDIMENT

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

Columbia Analytical Services, Inc.

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

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-E-9	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2317498	DISKETTE REQUESTED: Y__X_ N____	DATE DUE: 07/30/03
CLIENT: Blasland, Bouck, & Lee, Inc.	DATE: 07/07/03	PROTOCOL: 846
CLIENT REP: Mark Wilson	CUSTODY SEAL: PRESENT/ABSENT:	SHIPPING No.:
PROJECT: DOVER-KIRKLAND 05203	CHAIN OF CUSTODY: PRESENT/ABSENT:	SUMMARY PKG: Y__X__ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
653665	PX-E-9	SOIL	8260	7/1/03	7/2/03			
653666	PX-E-10	SOIL	8260	7/1/03	7/2/03			
653667	PX-E-11	SOIL	8260	7/1/03	7/2/03			
653668	PX-E-12	SOIL	8260	7/1/03	7/2/03			

Columbia Analytical Services, Inc.

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

Mark Wilson
Client Service Manager

Enc.

Columbia Analytical Services, Inc.
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-KIRKLAND 05203
Lab Submission #	: R2317498
Project Manager	: Mark Wilson
Reported	: 07/23/03

Report Contains a total of 17 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. KReyes

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

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

Columbia Analytical Services INC.
An Employee - Owned Company

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 INC.
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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: DOVE KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: E. GWOZDZ

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's ☐ 8260 ☐ 624 ☐ CLP	GCMS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOA's 524.2 ☐ - WATER CONTENT								REMARKS/ ALTERNATE DESCRIPTION
PX-E-9	653665	7/1/03	1200	SOIL	3								X								
PX-E-10	66	7/1/03	1210	SOIL	3								X								
PX-E-11	67	7/1/03	1205	SOIL	3								X								
PX-E-12	68	7/1/03	1215	SOIL	3								X								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
24 hr X 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
X IV. Data Validation Report with Raw Data
V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
QUOTATION # 2317498

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature 7491	Signature	Signature	Signature	Signature
Printed Name: E. GWOZDZ	Printed Name	Printed Name	Printed Name: Gregory G. Sampson	Printed Name	Printed Name
Firm: BBL	Firm	Firm	Firm: CAS	Firm	Firm
Date/Time: 7/1/03 16:20	Date/Time	Date/Time	Date/Time: 7-2-03 11:40	Date/Time	Date/Time

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client BBL Submission Number R2-17498 (Velocity)

Cooler received on 7-2-03 by: NE 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:	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: 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: NE

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_2SO_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_2SO_4

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	%

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-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	%
TOLUENE-D8	(83 - 117 %)	93	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

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-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

SURROGATE RECOVERIES	QC LIMITS		
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	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	92	%

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

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	102	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	85	%

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

Columbia Analytical Services, Inc.

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

Mark Wilson
Client Service Manager

Enc.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(585)288-5380 • Fax:(585)288-8475

Columbia Analytical Services, Inc.
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. KKeys

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.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: PX-C-11
SUBMISSION R2317425
CLIENT: Blasland, Bouck, & Lee, Inc.
CLIENT REP: Mark Wilson
PROJECT: DOVER-KIRKWOOD 05203

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y__X_ N____
DATE: 06/30/03
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 07/24/03
PROTOCOL: 846
SHIPPING No.:
SUMMARY PKG: Y___X__ N

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
652398	PX-C-11	SOIL	8260, %SOL	6/26/03	6/27/03			
652399	PX-C-12	SOIL	8260, %SOL	6/26/03	6/27/03			
652400	PX-C-13	SOIL	8260, %SOL	6/26/03	6/27/03			
652401	PX-C-14	SOIL	8260, %SOL	6/26/03	6/27/03			
652402	PX-C-15	SOIL	8260, %SOL	6/26/03	6/27/03			
652403	PX-D-9	SOIL	8260, %SOL	6/26/03	6/27/03			
652404	PX-D-10	SOIL	8260, %SOL	6/26/03	6/27/03			
652405	PX-D-11	SOIL	8260, %SOL	6/26/03	6/27/03			
652406	PX-D-12	SOIL	8260, %SOL	6/26/03	6/27/03			
652408	PX-D-13	SOIL	8260, %SOL	6/26/03	6/27/03			
652409	PX-D-14	SOIL	8260, %SOL	6/26/03	6/27/03			

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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

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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

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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 2

SR #

CAS Contact

Project Name: DOVER - KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL 8 SOUTH RIVER RD CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX#: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: E. GWOZDZ

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOA's 8260 ☐ 624 ☐ CLP	GCMS SVOA's 8270 ☐ 625 ☐ CLP	GC VOA's 8021 ☐ 601/602	PESTICIDES 8081 ☐ 608 ☐ CLP	PCB's 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TCLP VOA's 1311 + MARCH Current	0	REMARKS/ ALTERNATE DESCRIPTION
PX-C-11	6523798	6/26/03	0825	SOIL	3							X			
PX-C-12	99	6/26/03	0835	SOIL	3							X			
PX-C-13	400	6/26/03	0840	SOIL	3							X			
PX-C-14	01	6/26/03	0845	SOIL	3							X			
PX-C-15	02	6/26/03	0855	SOIL	3							X			
PX-D-9	03	6/26/03	1020	SOIL	3							X			
PX-D-10	04	6/26/03	1025	SOIL	3							X			
PX-D-11	05	6/26/03	1030	SOIL	3							X			
PX-D-12	06	6/26/03	1140	SOIL	3							X			
PX-D-13	08	6/26/03	1145	SOIL	3							X			

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
24 hr X 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
X IV. Data Validation Report with Raw Data
V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO
SUBMISSION #

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: 7491	Signature:	Signature:	Signature:	Signature:
Printed Name: KEN GWOZDZ	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: BBL	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 6/26/03 16:46	Date/Time:	Date/Time:	Date/Time: 6/27/03 1110	Date/Time:	Date/Time:

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: DOVER-KIRKWOOD	Project Number: 05203
Project Manager: GREG ALBRIGHT	Report CC:
Company/Address: BBL, 8 SOUTH RIVER RD. CRANBURY, NJ 08512	
Phone #: 609-860-0590	FAX: 609-860-8007
Sampler's Signature:	Sampler's Printed Name: K. GWOZDZ

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	GCMS VOA's 8260 CLP	GCMS SVOA's 8270 CLP	GC VOA's 8021 601/602	PESTICIDES 8081 608 CLP	PCB's 8082 608 CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOAS 8260 + [illegible]	
PX-D-14	6S2409	6/26/03	1150	SOIL	3									X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

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
Edata Yes No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: 7491	Signature:	Signature:	Signature:	Signature:
Printed Name: K. GWOZDZ	Printed Name:	Printed Name:	Printed Name: Heather Lovejoy	Printed Name:	Printed Name:
Firm: BBL	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 6/26/03 1610	Date/Time:	Date/Time:	Date/Time: 6/27/03 1110	Date/Time:	Date/Time:

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

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client BBL Submission Number 02-17425

Cooler received on 6/27/03 by: DSP **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:	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: 6/27/03 1110

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: DSP

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_2SO_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_2SO_4

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

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	%
TOLUENE-D8	(83 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	129 *	%

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 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

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	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	112	%

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	%
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

SURROGATE RECOVERIES	QC LIMITS		
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			
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

SURROGATE RECOVERIES	QC LIMITS		
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			
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	%
TOLUENE-D8	(83 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	119	%

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	(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	%
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 :
Date Received:
Order #: 658251
Submission #:
Sample Matrix: SOIL/SEDIMENT
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	%
TOLUENE-D8	(83 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(72 - 123 %)	94	%

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: 8260B TCL

Analytical Units: UG/KG

Run Number : 92576

Percent Solid : 90.2

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS 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

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
Date Received: 06/27/03
Order #: 652398
Submission #: R2317425
Sample Matrix: SOIL/SEDIMENT

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 #:** 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
Date Received: 06/27/03
Order #: 652403
Submission #: R2317425
Sample Matrix: SOIL/SEDIMENT

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	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 : 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) 681-6433
FAX (716) 681-6165

302631

0000302631 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	TIME OUT
	EWS# 6756		
TRUCK# 150	TRAILER#		

CONSIGNEE: ONTARIO COUNTY
DEPARTMENT OF SOLID WASTE
POST LANE ROAD; ROUTE 5 & 20
STANLEY, NY 14561
585-396-4000
PHONE#

SHIPPER UNIVERSAL INSTRUMENTS
2901 INDUSTRIAL DRIVE
KIRKWOOD, NY
BINGHAMTON 13904

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Kenneth Smith (Bill) as agent for Universal Instruments PRINT NAME KENNETH SMITH

DRIVER SIGNATURE [signature] PRINT NAME Patrick 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:
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ OAM _ OPM _

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

NS

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
585-396-4000
PHONE#

SHIPPER UNIVERSAL INSTRUMENTS
29 ~~201~~ INDUSTRIAL DRIVE
BERNWOOD, NY
BINGHAMTON
13904

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Kenneth Gwozdz (Bill) as agent for Universal Instruments PRINT NAME KENNETH GWOZDZ

DRIVER SIGNATURE [signature] 7-1-03 PRINT NAME Gerald Sh...

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)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM: ONTARIO County Landfill DATE 7-1-03
BY K Snyder TIME ____ OAM __ OPM __

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

Earthwatch
WASTE SYSTEMS, INC.
4550 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

302633

0000302633 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
Riccelli Enterprises	7/1/03		
	EWS# 6756		
TRUCK# 32	TRAILER# 402		

CONSIGNEE:	SHIPPER
ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LAKE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000 PHONE#	UNIVERSAL INSTRUMENTS 29 ~~201~~ INDUSTRIAL DRIVE ~~BIRDWOOD~~, NY Binghamton 13904

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 EWOZDZ
(BBL) as agent for Universal Instruments

DRIVER SIGNATURE Tom Rocker 1078 PRINT NAME Tom Rocker

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)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM: _____ DATE _____

BY _____ TIME _____ □AM □PM

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

2nd

302634

Earthwatch
WASTE SYSTEMS, INC.
4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-8433
FAX (716) 681-6165

0000302634 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK#	TRAILER#		

CONSIGNEE:	SHIPPER
ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000	UNIVERSAL INSTRUMENTS Z9-301 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 Kenneth Engdz PRINT NAME KENNETH ENGDZ
(BBL) as agent for Universal Instruments
DRIVER SIGNATURE _____ 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:
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

Ontario County
FIRM: Landfill DATE 7-1-03
BY K Snyder TIME _ OAM _ OPM _

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

302635

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-8433
FAX (716) 681-6165

0000302635 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK#	TRAILER#		

CONSIGNEE:	SHIPPER
ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000 PHONE#	UNIVERSAL INSTRUMENTS 2 7 201 INDUSTRIAL DRIVE BINGHAMTON, NY 13904

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Kenneth Gwozdz (BBL) as agent for Universal Instruments PRINT NAME KENNETH GWOZDZ

DRIVER SIGNATURE Gerald R. Welch PRINT NAME Gerald R. Welch

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) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ ☐AM ☐PM

Solid waste being interpreted to mean only solid waste or waste consisting 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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

Earthwatch
WASTE SYSTEMS, INC.

4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

302636

0000302636 Load #: _____

NON-HAZARDOUS WASTE SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
	EWS# 6756		
TRUCK# 31	TRAILER#		

CONSIGNEE:	SHIPPER
ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000 PHONE#	UNIVERSAL INSTRUMENTS 29 ~~291~~ INDUSTRIAL DRIVE ~~BIRKWOOD~~, NY PARK ~~BINGHAMTON~~ 13904

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Kenneth Ginzer (BBL) as agent for Universal Instruments PRINT NAME KENNETH GINZER

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) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM: _____ DATE _____
BY _____ TIME _____ OAM OPM

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

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	SHIPPER
ONTARIO COUNTY DEPARTMENT OF SOLID WASTE POST LANE ROAD; ROUTE 5 & 20 STANLEY, NY 14561 585-396-4000 PHONE#	UNIVERSAL INSTRUMENTS 29 20T INDUSTRIAL DRIVE ~~ENDICOTT~~, NY PARK BINGHAMTON 13904

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE Kenneth Dwozdz (BP) as agent for Universal Instruments PRINT NAME KENNETH GWOZDZ

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)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ □AM □PM

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 hereinafter 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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

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

PHONE#

SHIPPER UNIVERSAL INSTRUMENTS
29 ~~201~~ INDUSTRIAL DRIVE
~~BIRKWOOD~~, NY PARK
BINGHAMTON 13904

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN
	[redacted]	WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE Kenneth Dwozdz (BBL) as agent for Universal Instruments PRINT NAME KENNETH GWOZDZ

DRIVER SIGNATURE Gerald R Welsh PRINT NAME Gerald R. Welsh

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)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM: LANDFILL DATE 7-2-03
BY Ken Snyder TIME ____ AM ____ PM ____

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

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

PHONE#

SHIPPER UNIVERSAL INSTRUMENTS
29 281 INDUSTRIAL DRIVE
KIRKWOOD, NY PALK
BINGHAMTON 13904

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Kenneth Dwozz (BY) as agent for Universal Instruments PRINT NAME KENNETH GWOZDZ

DRIVER SIGNATURE [signature] 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) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM: ONTARIO COUNTY LANDFILL DATE 7-2-03

BY Ken Snyder TIME ____ □AM □PM

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.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper

Earthwatch
WASTE SYSTEMS, INC.
4950 Genesee Street
Suite 170
Buffalo, NY 14225
(716) 681-6433
FAX (716) 681-6165

302643

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 13904

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	TRUCKLOAD NON-HAZARDOUS CONTAMINATED SOIL	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE (GSL) C) agent for Universal Instruments Kenneth Gwozdz PRINT NAME KENNETH GWOZDZ

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) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

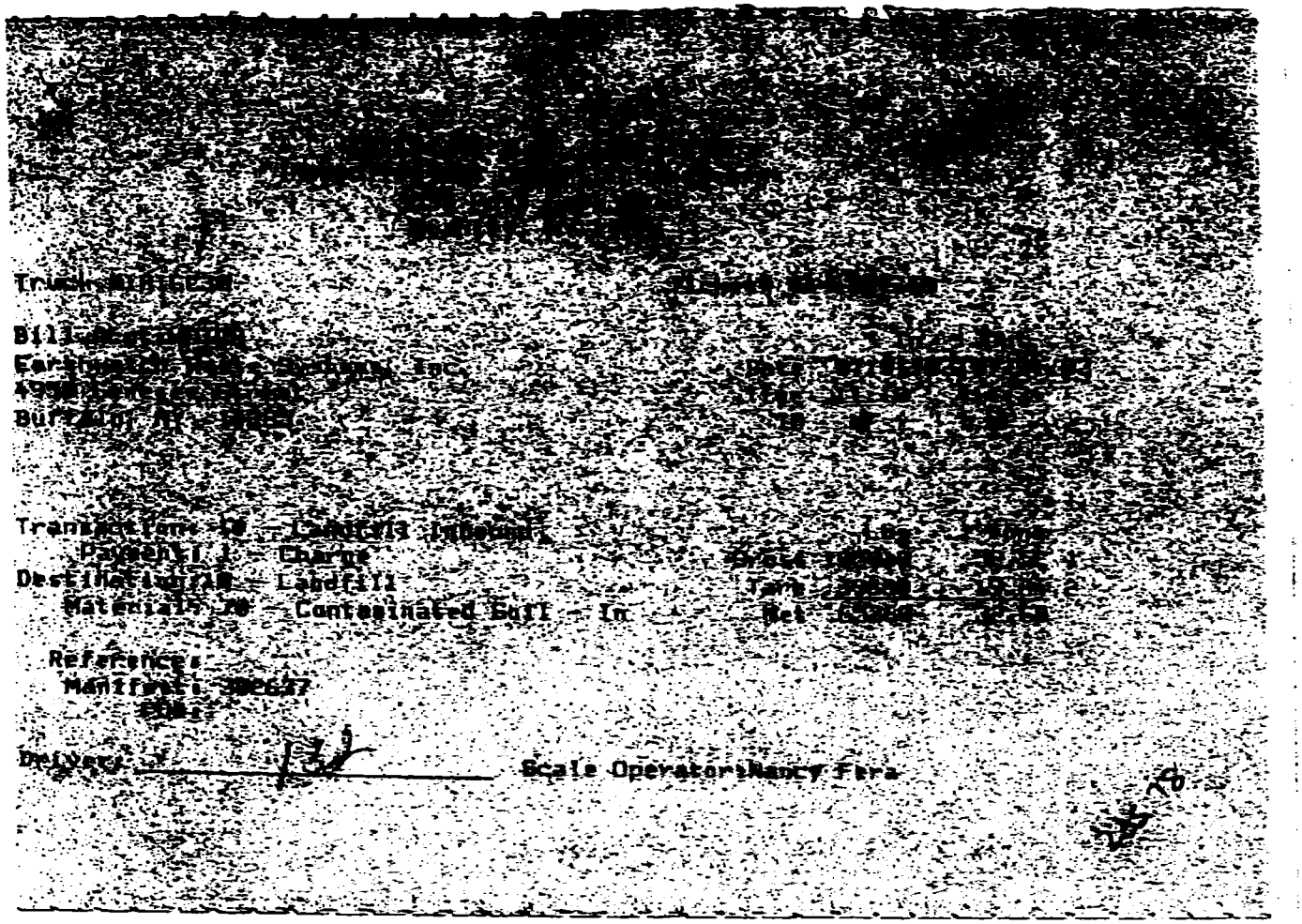
ONTARIO COUNTY
FIRM: LANDFILL DATE 7-2-03
BY Ken Snyder TIME ____ OAM __ OPM __

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.

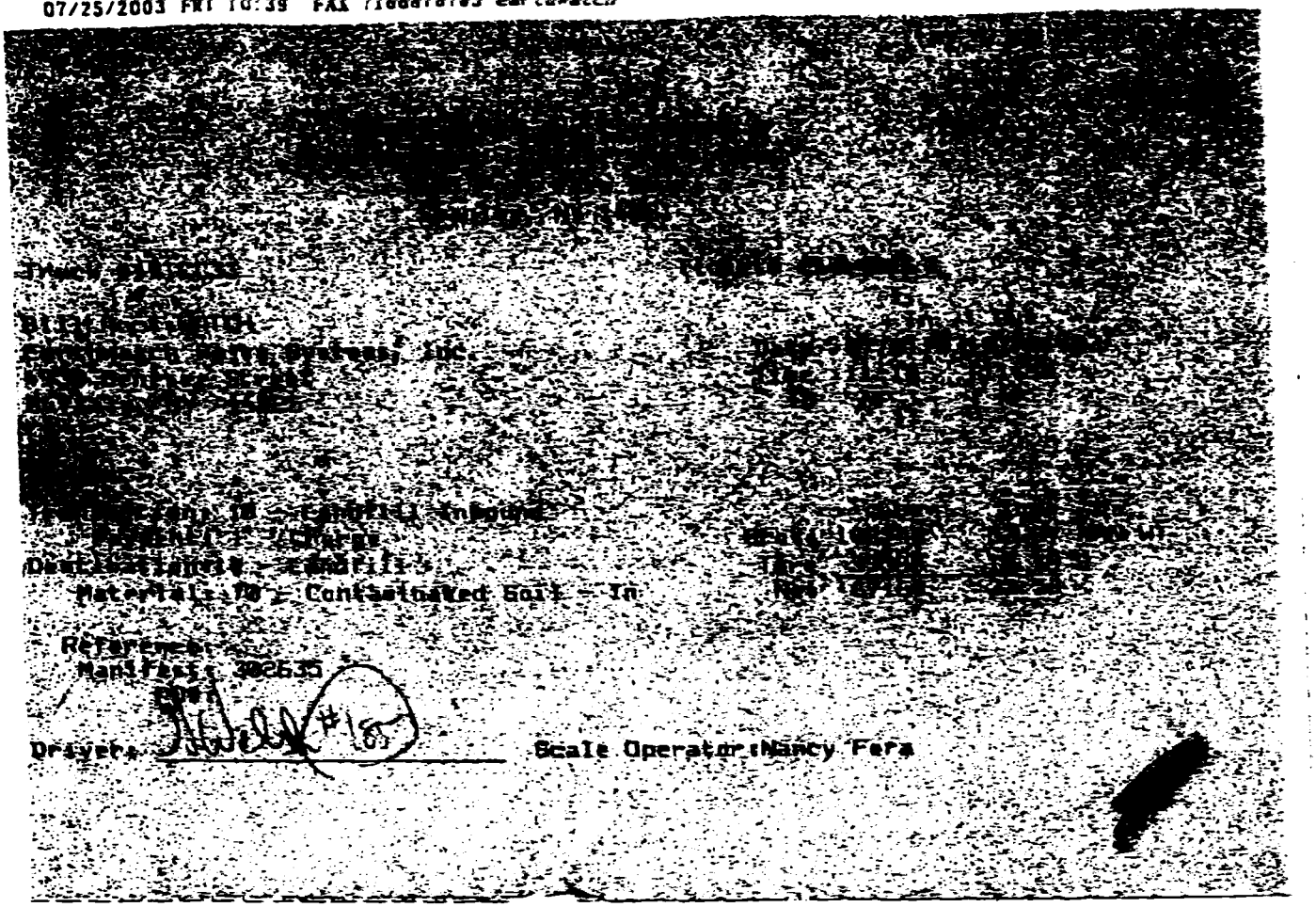
The transporter herein named agrees to hold harmless and to indemnify EWS against all losses and claims as a result of shipment of any material not listed on this manifest.

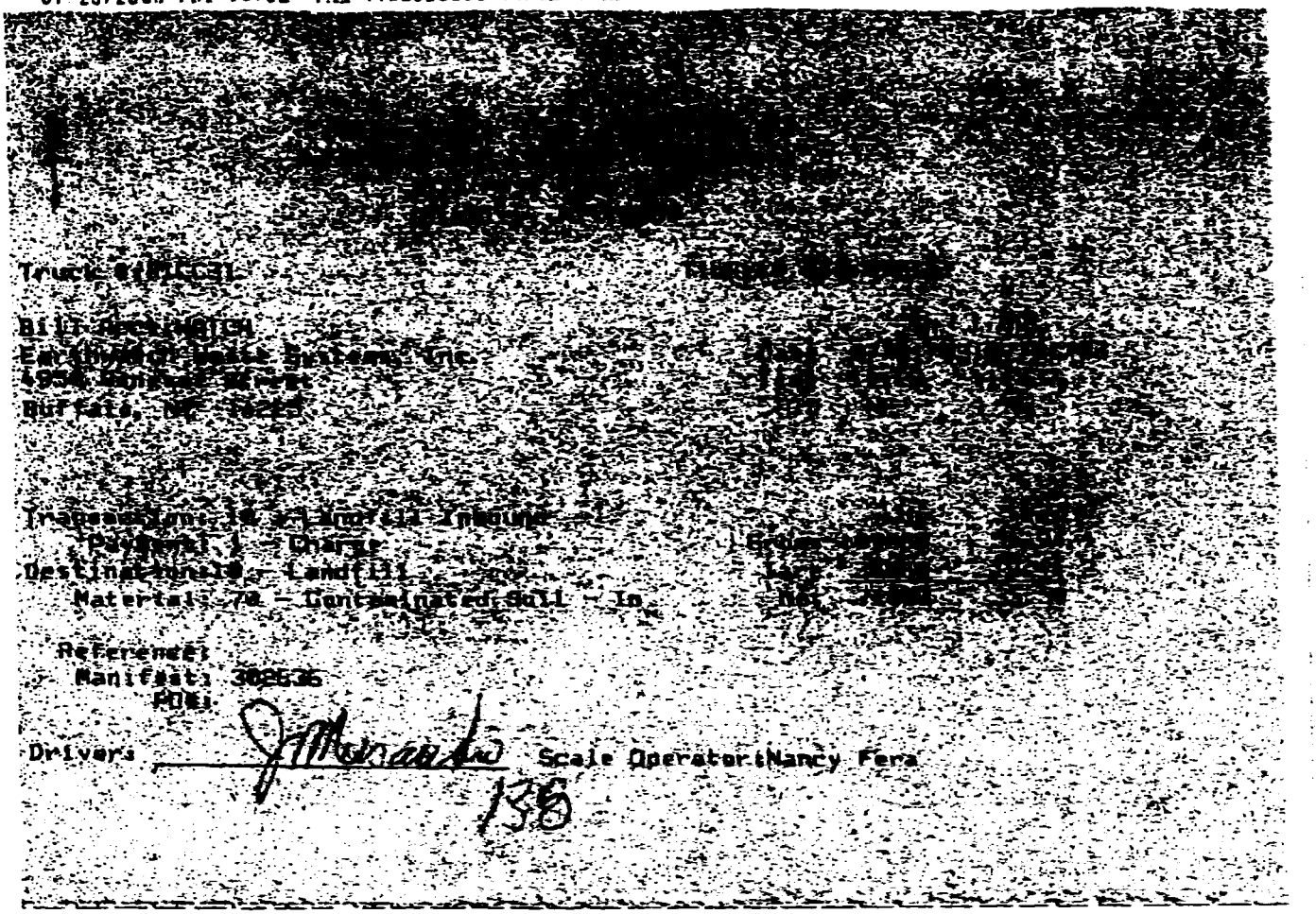
This shipment is to be delivered to the consignee without recourse on Earthwatch. The transporter shall not make delivery of this shipment without payment of freight and all other lawful charges.

1st Copy - Earthwatch 2nd Copy - Driver 3rd Copy - Land Fill 4th Copy Shipper



Transaction: 10 - Cash/Cr (Inbound)
Payment: 1 - Charge
Destination/To: - Landfill
Materials: 70 - Contaminated Soil - In
Tare:
Net:
References:
Manifest: 3026
Misc:
Driver:
Scale Operator/Agency Fee


Material: 70 - Contaminated Soil - In
Reference:
Manifest: 302535
Driver:
Scale Operator:Nancy Fera



Truck #[redacted]

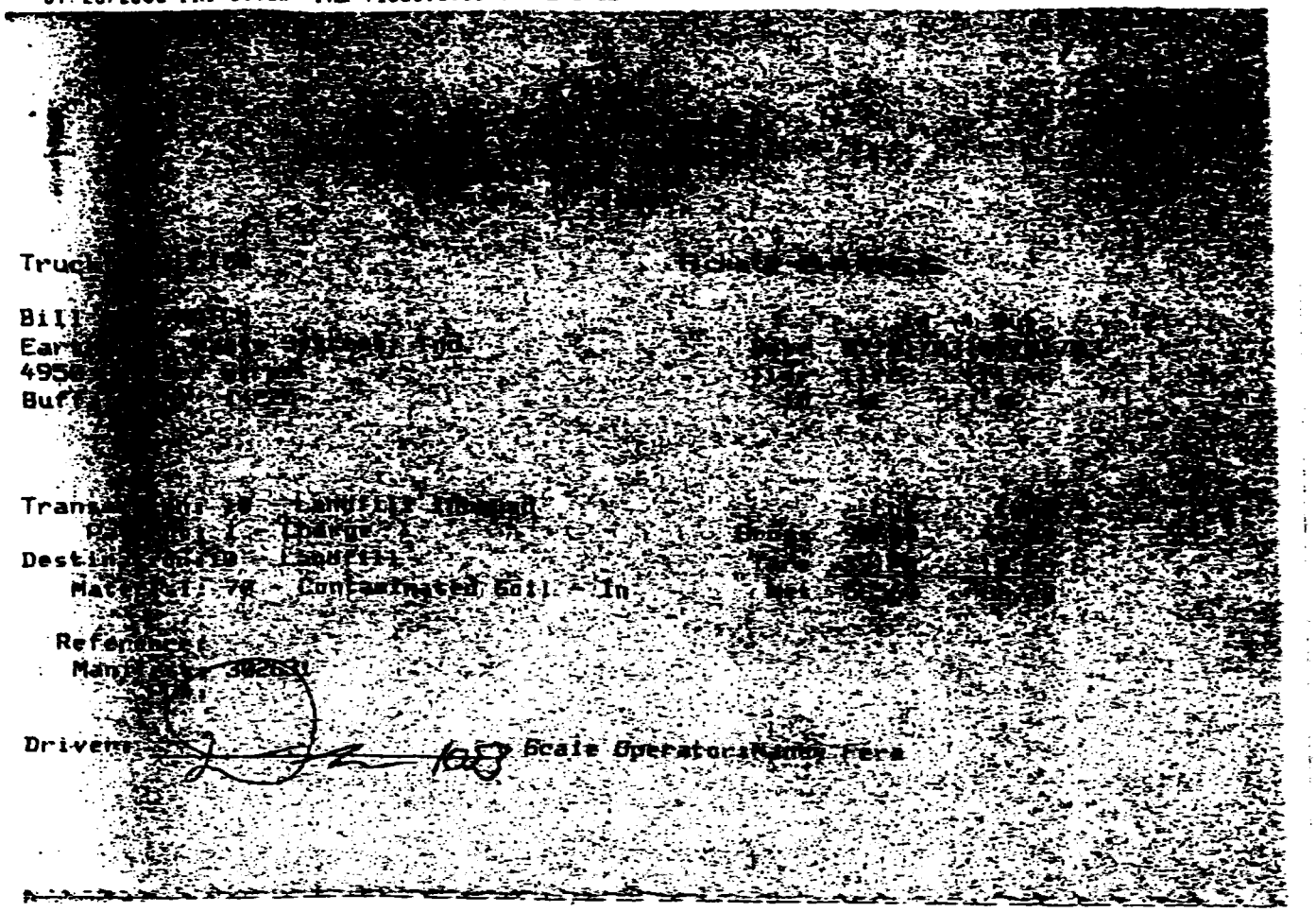
Bill [redacted]
[redacted]
[redacted]
Buffalo, NY [redacted]

Transaction: 10 - Landfill Inbound
Payment: 1 - Charge
Destination: 10 - Landfill
Material: 70 - Contaminated Soil - In

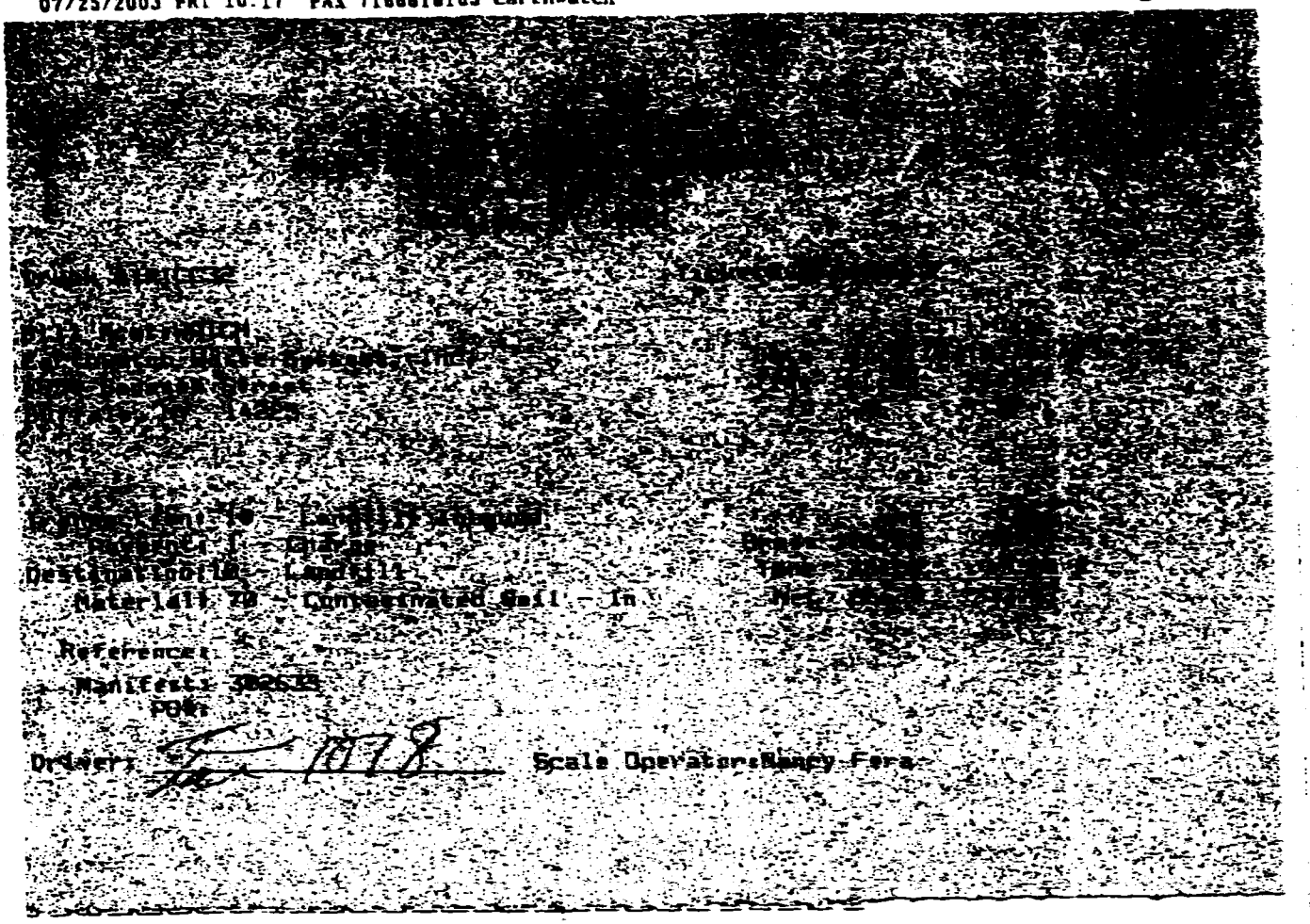
References
Manifest: 302536
PO#:

Drivers [redacted] Scale Operator: Nancy Fera

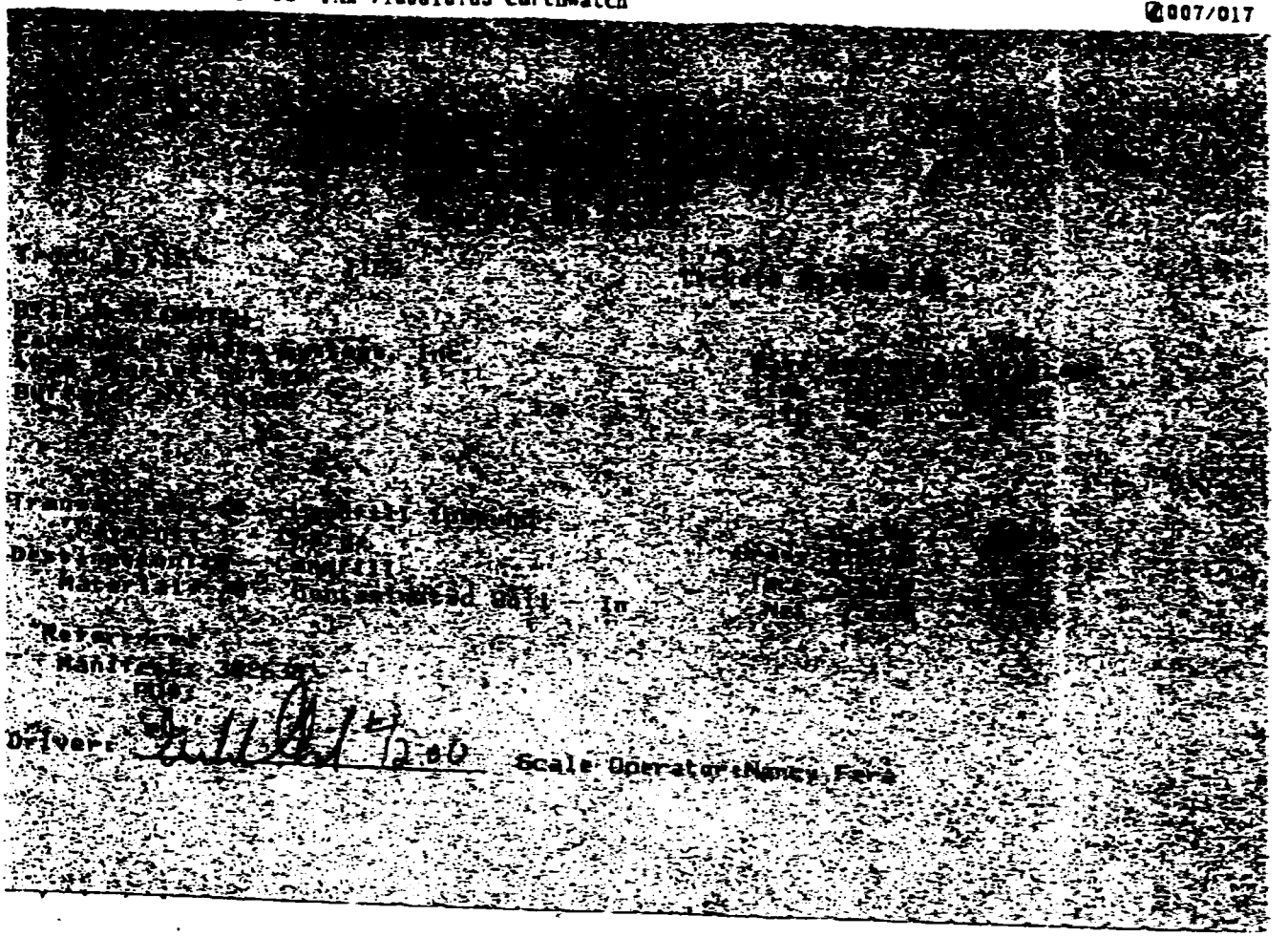
136



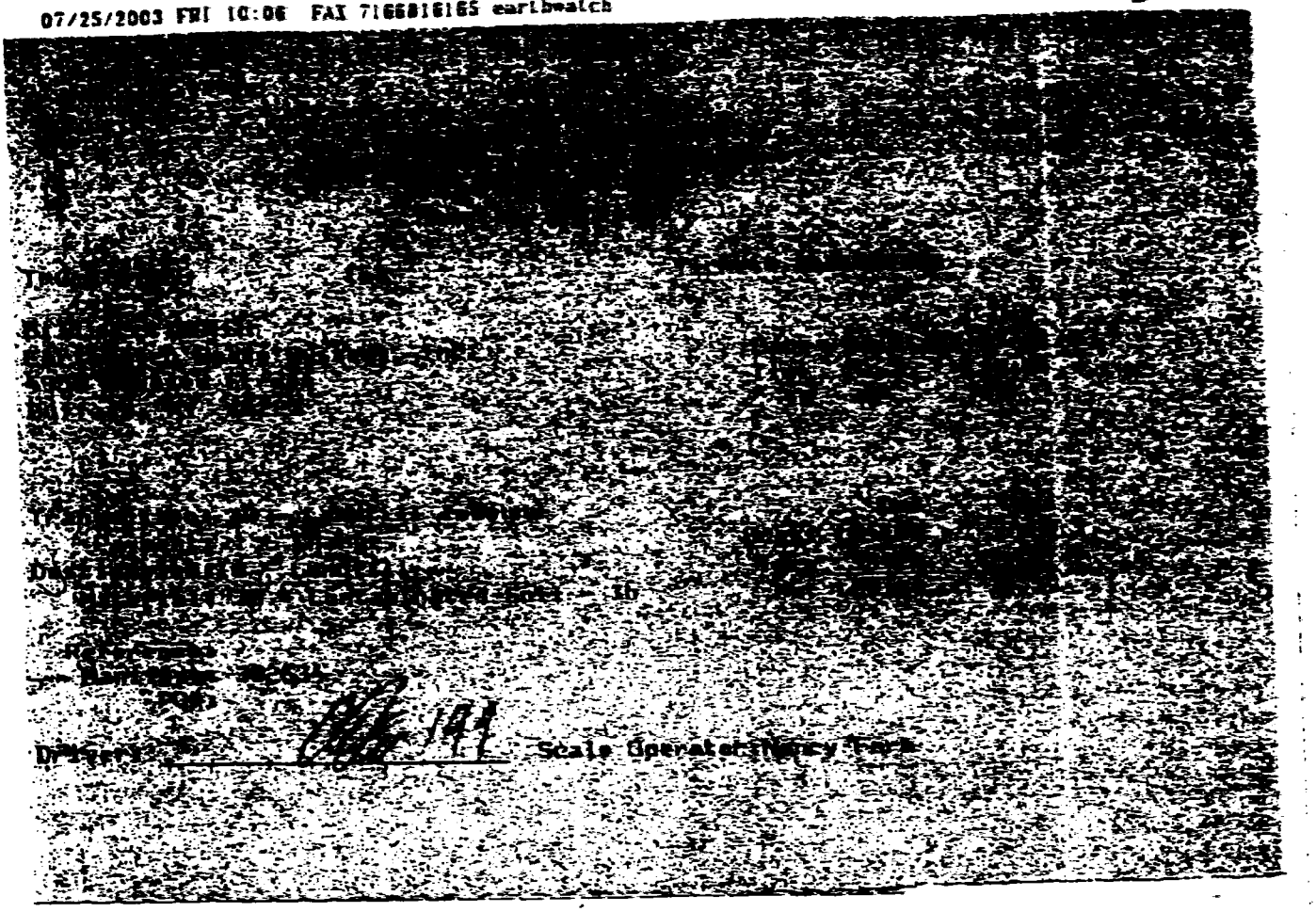
Truc
Bil
Ear
495
Buf
Tran
Dest
Mat
Reference
Man
Driver
Scale Operator



Destination: Landfill
Material: 79 - Contaminated Soil - In
Reference:
Manifest: 3826
PO#:
Driver: [signature] 1078 Scale Operator: Barry Fera



Driver: [illegible] Scale Operator: Nancy Fara


Scale Operator

Ontario County
Recycling and Landfill Management
3553 Post Farm Road
Stanley, NY 14561

Ticket# 84145

Truck #:30

Bill Acct:WATCH
Earthwatch Waste Systems, Inc.
4950 Genesee Street
Buffalo, NY 14225

	In	Out
Date	07/02/03	07/02/03
Time	07:09	07:31
ID	KS	KS

Transaction: 10 - Landfill Inbound
Payment: 1 - Charge
Destination:10 - Landfill
Material: 70 - Contaminated Soil - In

	Lbs	Tons	
Gross	100020	54.46	1
Tare	39960	19.98	2
Net	60060	34.48	

Reference:
Manifest: 302642
PO#:

Driver: 137

Scale Operator:Ken Snyder

Ontario County
Recycling and Landfill Management
3535 Post Farm Road
Stanley, NY 14561

Truck #:31-401

Ticket# 84146

Bill Acct:WATCH
Earthwatch Waste Systems, Inc.
4950 Genesee Street
Buffalo, NY 14225

	In	Out
Date	07/02/03	07/02/03
Time	07:11	07:32
ID	KB	KB

Transaction: 10 - Landfill Inbound
Payment: 1 - Charge
Destination:10 - Landfill
Material: 70 - Contaminated Soil - In

	Lbs	Tons	
Gross	100740	50.37	I
Tare	39080	19.54	E
Net	61660	30.83	

Reference:
Manifest: 002603
PO#:

Drivers: JM 138

Scale Operator:Ken Snyder

Jul 30 03 11:20a EISCO NJ 732 969 9589 P.13

Ontario County
Recycling and Landfill Management
3555 Post Farm Road
Stanley, NY 14561

Ticket# 84147

Truck #: 3

Bill Acct: WATCH
Earthwatch Waste Systems, Inc.
4950 Genesee Street
Buffalo, NY 14225

	In	Out
Date	07/02/03	07/02/03
Time	07:18	07:33
ID	KB	1 KB

Transaction: 10 - Landfill Inbound
Payment: 1 - Charge
Destination: 10 - Landfill
Material: 70 - Contaminated Soil - In

	Lbs	Tons
Gross	104560	52.28 1
Tare	39720	19.86 2
Net	64840	32.42

References:
Manifest: 308642
PO#:

Driver: Terry Wolk # 185 Scale Operator: Ken Snyder

Jul 30 03 11:18a EISCO NJ 8555 695 2F/ p.3

APPENDIX E

Waste Manifests – Hazardous Waste Disposal

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYB9752958

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

CWMI

Please type or print. Do not staple.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
	NYD002122612	20031	1	

3. Generator's Name and Mailing Address
UNIVERSAL INSRUMENTS CORP
P.O. BOX 825 ATTN: MARK GIALANELLA
BINGHAMTON NY 13902
4. Generator's Telephone Number (607) 772-3908 779-7820 mm

A NYB9752958
B. Generator's ID 29 INDUSTRIAL PARK DR KIRKWOOD NY 13795
C. State Transporter's ID AC-25369
D. Transporter's Telephone (716) 873-97
E. State Transporter's ID
F. Transporter's Telephone ( )
G. State Facility ID
H. Facility Telephone ( ) 716 754-8231

5. Transporter 1 (Company Name) Tonawanda Tank Transport
6. US EPA ID Number NYD987644801
7. Transporter 2 (Company Name)
8. US EPA ID Number
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 NYD049836679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S,9,NA3077, III,(TETRACHLOROETHENE)	001	DT	EST 44000	P	EPA D039 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a. CW9582 SOIL W/ TETRACHLOROETHENE
b.

K. Handling Codes for Wastes Listed Above
a. L c.
b. c.

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract
SR # 167286-2 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	Signature	Mo.	Day	Year
Mark Gialanella	Mark Gialanella	07	1	03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
David Goodemote	David Goodemote	07	1	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	Signature	Mo.	Day	Year
Lynn Piechowski	Lynn Piechowski	07	16	03

GENERATOR

TRANSPORTER

In case of emergency or spill immediately call the National Response Center (80[illegible]-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYB9752985
Please type or print. Do not staple.

HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

CWMI

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002226124 Manifest Doc. No. 120034
2. Page 1 of 1 — Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
UNIVERSAL INSRUMENTS CORP
P.O. BOX 825 ATTN: MARK GIALANELLA
BINGHAMTON NY 13902
4. Generator's Telephone Number (607) ~~772-5900~~ 779-7820 mAD

A. NYB9752985
B. Generator's ID 29 INDUSTRIAL PARK DR KIRKWOOD NY 13795
C. State Transporter's ID NC-2536 7-NY
D. Transporter's Telephone (716) 873-9713
E. State Transporter's ID
F. Transporter's Telephone ( )
G. State Facility ID
H. Facility Telephone ( ) 716 754-8231

5. Transporter 1 (Company Name) Tonawanda Tank Transport
6. US EPA ID Number NYD980764801
7. Transporter 2 (Company Name)
8. US EPA ID Number
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 NYD049836719

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S.,9,NA3077, III,(TETRACHLOROETHENE)	001	DT	EST 6000	P	EPA D039 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials Listed Above
a. CW9582
~~SOIL W/ TETRACHLOROETHENE~~

K. Handling Codes for Wastes Listed Above
a. L c. b. d.

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract
SR # 687284-5 8157878

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: Mark Gialanella — Mo. 07 Day 1 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEPHAN KRVANICK — Signature: [signature] — Mo. 07 Day 11 Year 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: Michelle Fleck — Mo. 07 Day 14 Year 03

GENERATOR
TRANSPORTER
DESIGNATED FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYB9752976

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

CWM

Please type or print. Do not staple.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD012261124 Manifest Doc. No. 20033

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

A NYB9752976

3. Generator's Name and Mailing Address
UNIVERSAL INSTRUMENTS CORP
P.O. BOX 825 ATTN: MARK GIALANELLA
BINGHANTON NY 13902

B. Generator's ID
29 INDUSTRIAL PARK DR
KIRKWOOD NY 13795

4. Generator's Telephone Number (607) ~~772-5900~~ 779-7820 MD

5. Transporter 1 (Company Name) Tonawanda Tank Transport

6. US EPA ID Number NYD907644801

C. State Transporter's ID AC-25376-J

D. Transporter's Telephone 716 873-93[illegible]

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
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

10. US EPA ID Number NYD049836679

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	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S.,9,NA3077, III,(TETRACHLOROETHENE)	001	DT	EST 42000 P		EPA D039 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

GENERATOR

J. Additional Descriptions for Materials listed Above
a. CW9582 ~~SOIL W/ TETRACHLOROETHENE~~

K. Handling Codes for Wastes Listed Above
a. L c.
b. d.

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract
SR # 6812864 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, 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.

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Printed/Typed Name: Mark Gialanella Signature: Mark Gialanella Mo. 07 Day 11 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William J. Durham Signature: William J. Durham Mo. 07 Day 11 Year 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 Heck Signature: Michelle Heck Mo. 07 Day 14 Year 03

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

In case of emergency or spill immediately call the National Response Center (8[illegible]-8802 and the NYS Department of Environmental Conservation (518) 457-7362

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

CWMI

NYB9752967

Please type or print. Do not staple.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002226124 Manifest Doc No. 80032

2 Page 1 of — Information within heavy bold line is not required by Federal Law

A NYB9752967

3. Generator's Name and Mailing Address
UNIVERSAL INSRUMENTS CORP
P.O. BOX 825 ATTN: MARK GIALANELLA
BINGHAMTON NY 13902

B. Generator's ID
29 INDUSTRIAL PARK DR
KIRKWOOD NY 13795

4. Generator's Telephone Number (607)772-5900 779-7820 MM

C. State Transporter's ID AC-2536 PA

5. Transporter 1 (Company Name) Tonawanda Tank Transport

6. US EPA ID Number NYD907644801

D. Transporter's Telephone (716) 873-97[illegible]3

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
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

10. US EPA ID Number NYD049836679

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	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S.,9,NA3077, III,(TETRACHLOROETHENE)	001	DT	EST 40000	P	EPA D039 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a. CW9502 SOIL W/ TETRACHLOROETHENE

K. Handling Codes for Wastes Listed Above
a. L c.
b. d.

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract
SR # 187286-3 8151487O

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.

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Printed/Typed Name: Mark Gialanella — Signature: Mark Gialanella — Mo. 07 Day 11 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID ATTEA — Signature: [signature] — Mo. 07 Day 11 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

19. Discrepancy Indication Space
Net 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. 07 Day 14 Year 03

GENERATOR

In case of emergency or spill immediately call the National Response Center (800)-424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1-DISPOSER STATE - MAILED BY TSD FACILITY

111533

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

50 Cubic Yards

85714870 Receipt #
AC25362 NY Trailer License Plate # and State
CW9562 9A080 Service Req. # / Profile # / Permit #
Tom - Tank 66/625 Transporter Name / Tractor / Trailer/Rail car #
Jeff G. Univ. Ind. Driver's Name / Generator

32 02

Scheduled Arrival: Date Time

Actual Arrival: Date 7:53 Time In Time Out

4:040P

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials Comments

☐ 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 N Y -

Aqueous Treatment Time In Time Out Signature (NO initials) Comments BB+L

Facility Personnel (please initial)

10:05 4.00

_____ 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 dunnpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify)

Security Guard Initials: _____
(indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

111516

50 Cubic Yards

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

9514850 — Receipt #
AC25376nt — Trailer License Plate # and State
LS872564 CW9582 — Service Req. # / Profile #
9A-060 — Permit #
Tom-Tank — Transporter Name
LS1624 — Tractor/Trailer/Roll-off #
Jeff G. — Driver's Name
Univ. Ins. — Generator

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 500 Time Out ____

40000 P

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☑ Bulk to Landfill ☐ No wet flow ☐ 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 truck unattended
____ Failure to obey instructions of facility personnel
____ Failure to display overweight flag
____ Failure to wear appropriate PPE
____ Improper tarping or dumping
____ Unsafe driving practices
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Weat Bay pass, if necessary)

Driver's Comments

111542

27

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

50 Cubic Yards

8157878 Receipt #
AC25367 NY Trailer Licenses Plate # and State
CW9562 Service Req. #
9AQ60 Profile #
158/132 Permit #
Iowa - Kurk Transporter Name
Tractor/Trailer/Roll-off #
Jeff G- Univ. Inst. Driver's Name
Generator

07:52
07/14/03
6.38
07/14/03

12760P

Scheduled Arrival: Date Time

Actual Arrival: Date 9:03 Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: MF Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wait time ☐ 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

_____ 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 tarping or dunnage

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of West Bay pass, if necessary)

Driver's Comments:

111613

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

50 Cubic Yards

$15749.50 Receipt #

AC25399 NY Trailer License Plate # and State

CW9562 9A060 Service Req. # Profile #

Permit # 66631

Tom Tank Transporter Name

Tractor/Trailer/Roll-off #

Jeff G Driv Ins Driver's Name

Generator

Scheduled Arrival: Date Time

Actual Arrival: Date 8:52 Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials Comments

☐ 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

_____ 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 dumping or dumpin

_____ Overweight upon arrival

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

SHIPPER

NAME: UNIVERSAL INSTRUMENTS
STREET: 29 INDUSTRIAL PARK DR
CITY: KIRKWOOD STATE: NY. ZIP CODE:
CONTACT NAME:
SCHEDULED TIME: 08:00 AM

ADDITIONAL INFORMATION: LOAD 22 TON MINIMUM
SCALE AT EXIT 3

DELIVERY

CONSIGNEE

NAME: CHEMICAL WASTE MANAGEMENT
STREET: 1550 BALMER RD
CITY: MODEL CITY STATE: NY. ZIP CO
CONTACT NAME:
SCHEDULED TIME:

ADDITIONAL INFORMATION:

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	PRODUCT CODE
		NYF9K295X	

LOAD NUMBER	TRACTOR NUMBER	TRAILER NUMBER	DRIVER'S NAME
10307048	74	631	GOODEMOTE

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
TANK (S/S) (R/L) VAC DUMP VAN ROLL-OFF FLATBED	HAZ WASTE Solid	

PICK UP

ARRIVAL TIME: AM/PM RELEASE TIME: AM/PM
TRAILER EMPTY UPON ARRIVAL: ☐ YES ☐ NO
(If not, explain below)
DIP MEASUREMENT (Bulkers Only): INCHES
COMMENTS: (EXPLAIN ALL DELAYS)

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE IN-FORMATION IS TRUE AND COMPLETE

X Mark Bielak 7-11-03
SHIPPER'S SIGNATURE

DELIVERY

DRIVER: DATE:
ARRIVAL TIME: AM/PM RELEASE TIME: AM/PM
TRAILER EMPTY UPON DEPARTURE: ☐ YES ☐ NO
(If not, explain below)
COMMENTS: (EXPLAIN ALL DELAYS)

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE IN-FORMATION IS TRUE AND COMPLETE

X
CONSIGNEE'S SIGNATURE

OFFICE USE ONLY

DRIVER

TRIP
TOLLS
DEMURRAGE
LAYOVER
VAC
MISC
TOTAL:

SUBCONTRACTOR

DRIVER'S #
FREIGHT
TOLLS
DEMURRAGE
MISC.
TOTAL

WHITE-BILLING COPY YELLOW-TON TANK COPY PINK-ACCOUNTING COPY GREEN-DRIVER COPY BLUE-TSDF COPY GOLD-GENERATOR COPY

P.O. BOX H
BUFFALO, NY 14217
(716) 873-9703

LEBANON, OH 45036
(513) 398-6997

07 / 11 / 03

PICK UP

SHIPPER
NAME: UNIVERSAL INSTRUMENTS
STREET: 29 INDUSTRIAL PARK DR
CITY: KIRKWOOD STATE: NY. ZIP CODE:
CONTACT NAME:
SCHEDULED TIME: 08:30 AM
ADDITIONAL INFORMATION: LOAD 22 TON MINIMUM
SCALE AT EXIT 3

DELIVERY

CONSIGNEE
NAME: CHEMICAL WASTE MANAGEMENT
STREET: 1550 BALMER RD
CITY: MODEL CITY STATE: NY. ZIP COD:
CONTACT NAME:
SCHEDULED TIME:
ADDITIONAL INFORMATION:

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	PRODUCT CODE
		NYA 995282	

LOAD NUMBER	TRACTOR NUMBER	TRAILER NUMBER	DRIVER'S NAME
10307052		628	ATIEA

TYPE (CIRCLE ONE)
TANK (S/S) (R/L)
VAC
DUMP
VAN
ROLL-OFF
FLATBED

MATERIAL DESCRIPTION: AS DESCRIBED

QUANTITY:

PICK UP

ARRIVAL TIME: AM PM RELEASE TIME: AM PM
TRAILER EMPTY UPON ARRIVAL (If not, explain below): ☑ YES ☐ NO
DIP MEASUREMENT (Tankers Only): INCHES
COMMENTS: (EXPLAIN ALL DELAYS) FILE TRUCK
DRIVER SIGNATURE NEEDED.
LOADED BY SHIPPER

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE IN-FORMATION IS TRUE AND COMPLETE.
X [signature] 7-11-03
SHIPPER SIGNATURE

DELIVERY

DRIVER: DATE:
ARRIVAL TIME: AM PM RELEASE TIME: AM PM
TRAILER EMPTY UPON DEPARTURE: ☐ YES ☐ NO
(If not, explain below)
COMMENTS: (EXPLAIN ALL DELAYS)

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE IN-FORMATION IS TRUE AND COMPLETE.
X
CONSIGNEE SIGNATURE

OFFICE USE ONLY

DRIVER
TRIP
TOLLS
DEMURRAGE
LAYOVER
VAC
MISC TOTAL:

ACCOUNTING
DRIVER'S #
FREIGHT
TOLLS
DEMURRAGE
MISC.
TOTAL

WHITE-BILLING COPY YELLOW-TOX, TANK COPY PINK-ACCOUNTING COPY GREEN-DRIVER COPY BLUE-TSDF COPY GOLD-GENERATOR COPY

P.O. BOX H
BUFFALO, NY 14217
(716) 873-9703

LEBANON, OH 45036
(513) 398-6997

07/11/03

PICK UP

SHIPPER

NAME: UNIVERSAL INSTRUMENTS
STREET: 99 INDUSTRIAL PARK DR
CITY: KIRKWOOD STATE: NY ZIP CODE:
CONTACT NAME:
SCHEDULED TIME: 9:00 AM

ADDITIONAL INFORMATION:

DELIVERY

CONSIGNEE

NAME: G, W, M,
STREET: 1550 BALMER, RD
CITY: MODEL CITY STATE: NY ZIP CODE:
CONTACT NAME:
SCHEDULED TIME:

ADDITIONAL INFORMATION:

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	PRODUCT CODE
		NYB9751985	3077
LOAD NUMBER	**TRACTOR NUMBER**	**TRAILER NUMBER**	**DRIVER'S NAME**
10307040	43	632	KRUMICH

TYPE (CIRCLE ONE)

- TANK (S/S) (R/L)
- VAC
- DUMP
- VAN
- ROLL-OFF
- FLATBED

MATERIAL DESCRIPTION [redacted] QUANTITY [redacted]

PICK UP

ARRIVAL TIME: 9:00 AM/PM RELEASE TIME: 10:20 AM/PM

TRAILER EMPTY UPON ARRIVAL: ☑ YES ☐ NO
(If not, explain below)

DIP MEASUREMENT (Tankers Only): INCHES

COMMENTS: (EXPLAIN ALL DELAYS) pick type

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE

X [redacted] 7-11-03
SHIPPER SIGNATURE

DELIVERY

DRIVER [redacted] DATE
ARRIVAL TIME RELEASE TIME AM/PM

TRAILER EMPTY UPON DELIVERY: ☐ YES ☐ NO
(If not, explain below)

COMMENTS: (EXPLAIN ALL DELAYS)

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE

X
CONSIGNEE SIGNATURE

OFFICE USE ONLY

DRIVER

TRIP		DRIVER'S #	
TOLLS			
DEMURRAGE			
LAYOVER			
VAC			
MISC	TOTAL		

CUSTOMER

		FREIGHT	
		TOLLS	
		DEMURRAGE	
		MISC.	
		TOTAL	

WHITE-BILLING COPY YELLOW-TON TANK COPY PINK-ACCOUNTING COPY GREEN-DRIVER COPY BLUE-TSDF COPY GOLD-GENERATOR COPY

1140 MILITARY ROAD
P.O. BOX H
BUFFALO, NY 14217
(716) 873-9703

5016 U.S. ROUTE 42 SOUTH
LEBANON, OH 45036
(513) 398-6997

07 / 11 / 03

PICK UP		CONSIGNEE	DELIVERY
NAME	UNIVERSAL INSTRUMENT	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	10:00 AM	SCHEDULED TIME	
ADDITIONAL INFORMATION	LOAD 22 TON MINIMUM SCALE AT EXIT 3	ADDITIONAL INFORMATION	

PURCHASE ORDER NO	WORK ORDER NUMBER	MANIFEST NUMBER	PRODUCT CODE
20307050			

LOAD NUMBER	TRACTOR NUMBER	TRAILER NUMBER	DRIVER'S NAME
10307050	56	624	DUNBAR

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
TANK (S/S) (R/L) VAC (DUMP) VAN ROLL-OFF FLATBED	Non Hazardous	Est. 42,000

PICK UP	DELIVERY
ARRIVAL TIME 8:30 AM/PM RELEASE TIME	DRIVER DATE
TRAILER EMPTY UPON ARRIVAL [X] YES [ ] NO	ARRIVAL TIME AM/PM RELEASE TIME
(If not, explain below)	TRAILER EMPTY UPON DEPARTURE [ ] YES [ ] NO
DIP MEASUREMENT (Tankers Only) INCHES	(If not, explain below)
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
DRIVER'S SIGNATURE	CONSIGNEE'S SIGNATURE

OFFICE USE ONLY

		DRIVER'S # 8716	
TRIP		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

JOB # NY
CUSTOMER B&L
JOB LOCATION BINGHAMTON NY

EISCO-NJ

900 Port Reading Ave.,B-2
Port Reading, NJ 07064
(732) 969-4888 • Fax: (732) 969-9599

4287
T & M No.:
Day: FRI
Date: 7-25-03

PERSONNEL / PER DIEM

NAMES	CODE	START	FINISH	ST	RATE	OT	RATE	RATE	QTY	TOTAL
[illegible]	GM	5:30	16:00							
								TOTAL		

MATERIALS

TYPE	QTY	RATE	TOTAL
		TOTAL	

EQUIPMENT / TRUCKS

UNIT TYPE	QTY	START	FINISH	HR	RATE		DAILY	TRANS	TOTAL
F-4 Pick Truck	1	5:30	16:00						
								TOTAL	

PIPE

TYPE	QTY	RATE	TOTAL
		TOTAL	

DISPOSAL

QTY	DESCRIPTION	MANIFEST#	PRICING	TOTAL
			TOTAL	

SUBCONTRACTOR	QTY	START	FINISH	WORK DESCRIPTION
			TOTAL	

DESCRIPTION OF WORK PERFORMED: On Site 9:30 [illegible] LEFT - 10:05 - 1500 AT C.V.C.C.
Pick up & Drive And Transported To C.V.C.C.
HAZARDOUS WASTE

CUSTOMER SIGNATURE:

CUSTOMER COMMENTS:

State of New Jersey
Department of Environmental Protection
Hazardous Waste Regulation Program
Manifest Section
P.O. Box 414, Trenton, NJ 08625-0414

4121027

Please type or print in block letters (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD002226124 — Manifest Document No. 027
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law
A. State Manifest Document Number: **NJA 4121027**
3. Generator's Name and Mailing Address: UNIVERSAL INSTRUMENTS, PO BOX 825 BINGHAMTON NY 13902
4. Generator's Phone: 607) 779- 7820
B. State Generator's ID / Site Address: 33 INDUSTRIAL PARK DR BINGHAMTON NY
C. State Trans. ID Number: 1927 — Decal No.: 05361
5. Transporter 1 Company Name: ENVIRONMENTAL ENGINEERING SERV CO-NY
6. US EPA ID Number: DER000006151
D. Transporter's Phone: 732 364 4
7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID Number
Decal No.
F. Transporter's Phone ( )
9. Designated Facility Name and Site Address: CYCLE CHEM INC. 317 SOUTH FIRST ST ELIZABETH NJ 07206
10. US EPA ID Number: NJD002207046
G. State Facility's ID
H. Facility's Phone: 908 355-5

11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Waste No.
a. NR HAZARDOUS WASTE LIQUID NOS 9, NA 3082 PG III D039	X	002	DM	000756	D	003
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
a. 4 TETRACHLOROETHYLENE + WATER 100%
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. 501
c.
b.
d.

15. Special Handling Instructions and Additional Information
(X) ID-1
IN EMERGENCY CALL 732-969-4888 ERG # 171
93346

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 labelled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental 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 small quantity 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 — Month Day: 07 25

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Alex Graficks — Signature — Month Day: 07 25
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day

FACILITY

19. Discrepancy Indication Space
(X) Select D039, ADD F002.
(A) ASS T

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Alicia Gibson — Signature — Month Day: 07 25

In case of an emergency or spill immediately call the state the emergency occured in and the N.J. Dept. of Environmental Protection. (609) 292-7172

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

M 290—Warranty deed: bargain and sale: ind. or corp. JULIUS BLUMBERG INC. LAW BLANK PUBLISHERS

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 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 Colesvile 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 1446.

Together with the appurtenances and all the estate and rights of the party of the first part in and to said premises.

To have and to 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: L.S.
Patrick J. Gillard
Vice President, Finance

L.S.

L.S.

STATE OF NEW YORK, COUNTY OF ss.:

On 19 before me personally came

to me known to be the individual described in, and who executed the foregoing instrument, and acknowledged that he executed the same.

STATE OF NEW YORK, COUNTY OF ss.:

On 19 before me personally came

to me known to be the individual described in, and who executed the foregoing instrument, and acknowledged that he executed the same.

STATE OF NEW YORK, COUNTY OF BROOME ss.:

On January 22, 19 97 before me personally came PATRICK J. GILLARD to me known, who, being by me duly sworn, did depose and say that deponent resides at No.

deponent is V.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 corporate seal; that it was so affixed by order of the Board of Directors of said corporation; deponent signed deponent's name thereto by like order.

STATE OF NEW YORK, COUNTY OF ss.:

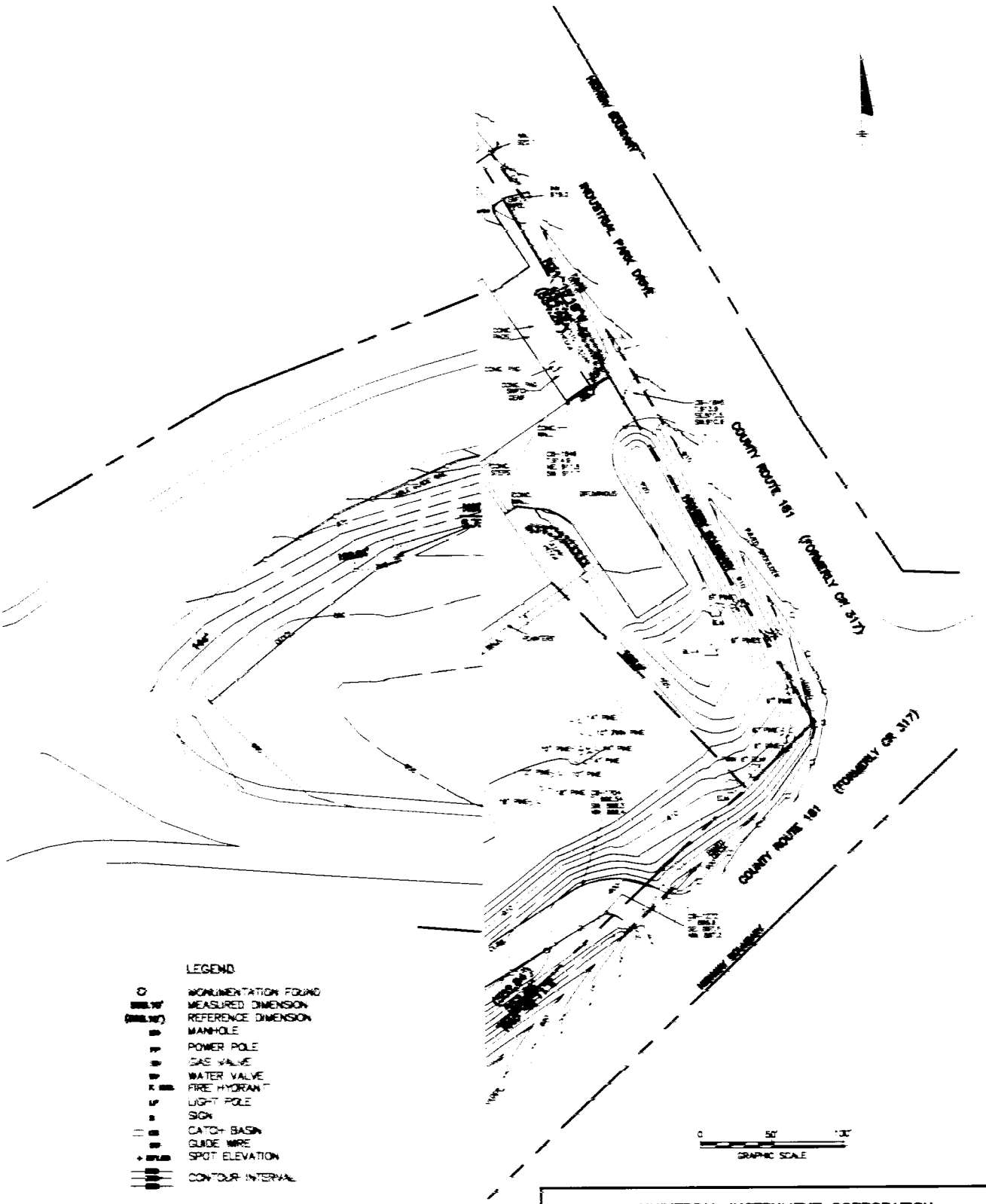
On 19 before me personally came

the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.

that he knows

to be the individual described in 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 same time subscribed h name as witness thereto.

Notary Public



SOURCE:

BASEMAP PROVIDED BY HANK ENGINEERING, P.C. BINGHAMTON, NY, @ A SCALE OF 1"=50'.

X: 05203X03.DWG
L: REF=OFF*
P: PAGESET/PLT-DL
03/31/04 CRA-BS-TJF
05203007/05203007.DWG

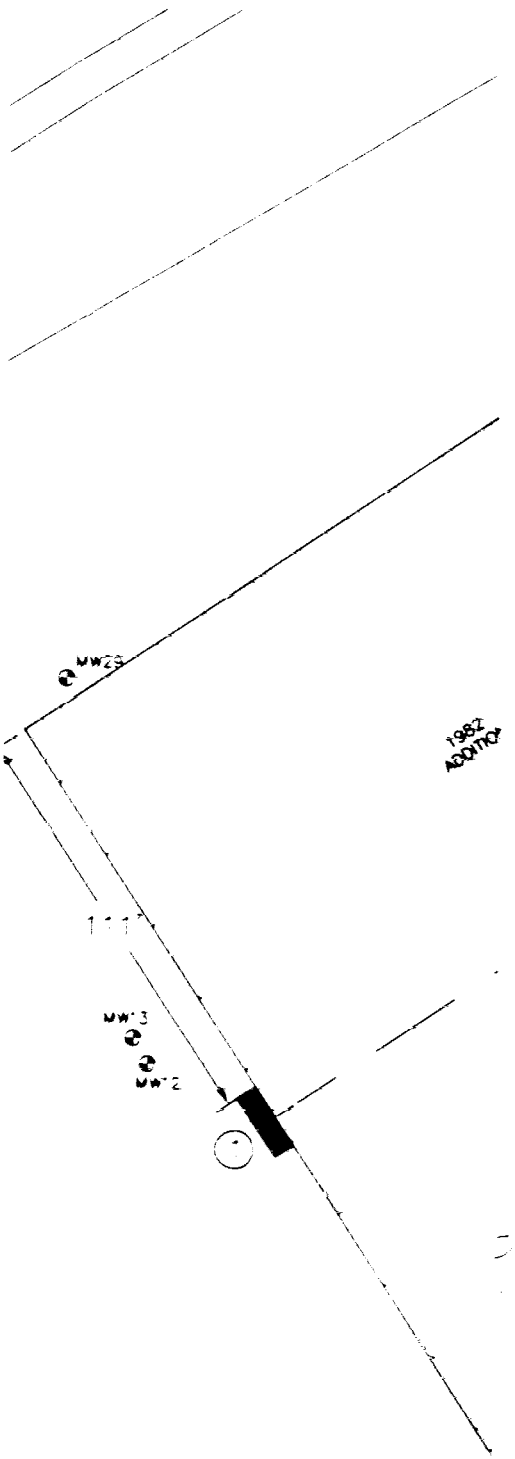
UNIVERSAL INSTRUMENT CORPORATION
KIRKWOOD, NEW JERSEY
REMEDIAL ACTION REPORT

PROPERTY BOUNDARY MAP

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

FIGURE
A-1

APPENDIX B



LEGEND

- EXISTING MONITORING WELL
- BUILDING DEED NOTICE AREAS
- EXTERIOR DEED NOTICE AREAS

DEPTH TO PCE–AFFECTED SOIL

1. 4 FEET
2. 6 FEET
3. 8 FEET
4. 8 FEET
5. 5 FEET
6. 7 FEET
7. 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
BLASLAND, BOUCK & LEE, INC.

FIGURE
B-1

X: 05203X01.DWG
L: OFF=REF
P: PAGESET/PLT-BL
03/26/04 CRA-85-TLF
05203008/05203C09.DWG

APPENDIX G

Indoor Air Laboratory Analytical Reports
August 2003
September 2003
January 2004

Columbia Analytical Services INC

An Employee - Owned Company

LABORATORY REPORT

Client:	BLASLAND, BOUCK & LEE, INC.	Date of Report:	08/22/03
Address:	3 South River Road	Date Received:	08/06/03
	Cranbury, NJ 08512	CAS Project No:	P2301571
Contact:	Mr. Greg Albright	Purchase Order:	Verbal
Client Project ID: DOVER - KIRKWOOD/05203.009		NJ Certification ID:	CA009

Six (6) Stainless Steel Summa Canisters labeled:

"OFFICE AREA #1"	"OFFICE AREA #2"	"A/C AREA"
"ELECTRICAL AREA"	"CAFETERIA"	"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

NELAC Accredited

2665 Park Center Drive, Suite D • Simi Valley, California 93065
(805) 526-7161 1-800-695-7222 x13 Fax (805) 526-7270

ACIL Seal of Excellence Laboratory

Columbia Analytical Services INC.
An Employee - Owned Company

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.

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = 0.0 Pf l = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	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.

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Verified By: KHH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = 0.0 Pf l = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	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

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 l = 0.0 Pf l = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	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: KHH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = 0.0 Pf l = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	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: KMH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: EHH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/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	0.24	
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: _____ Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = -0.1 Pf l = 3.5

D.F. = 1.25

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	0.47	
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**.
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: _____ Date: 09/aug/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/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	6.2	1.3	1.7	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	94	1.3	14	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	2.4	1.3	0.56	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: RMH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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)

Pi I = -0.2 Pf I = 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	**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: KLH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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)

Pi 1 = -0.2 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	**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: DMH Date: 08/30/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 Pf 1 = 3.5
D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.82	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.66	
74-83-9	Bromomethane	ND	1.7	ND	0.44	
75-00-3	Chloroethane	ND	1.7	ND	0.64	
67-64-1	Acetone	**21**	8.5	**8.6**	3.6	
75-69-4	Trichlorofluoromethane	**6.7**	1.7	**1.2**	0.30	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.43	
75-09-2	Methylene chloride	ND	1.7	ND	0.49	
76-13-1	Trichlorotrifluoroethane	ND	1.7	ND	0.22	L
75-15-0	Carbon Disulfide	ND	1.7	ND	0.54	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.43	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.42	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	ND	0.47	
108-05-4	Vinyl Acetate	**3.6**	1.7	**1.0**	0.48	
78-93-3	2-Butanone (MEK)	**2.7**	1.7	**0.93**	0.57	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.43	
67-66-3	Chloroform	ND	1.7	ND	0.35	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.42	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.31	
71-43-2	Benzene	ND	1.7	ND	0.53	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.27	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.37	

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: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 Pf 1 = 3.5
D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	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: BH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = 0.0 Pf l = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	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: KH Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 I = 0.0 Pf I = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	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: [illegible] Date: 08/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: _____ Date: 8/20/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KMH Date: 08/20/03

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?	☐	☒	☐
	Location of seal(s)? Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and or tags agree with custody papers?	☐	☒	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was *proper **temperature** (thermal preservation)* of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method SOP or Client specified information?	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence absence of air bubbles?	☐	☐	☒
	Does the client method SOP require that the analyst check the sample pH and if necessary after it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Required pH	pH (preserved, if required)	VOA Headspace (Presence/Absence)	Reagent / Preservation Chemicals
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

Columbia Analytical Services INC.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address	BBL 8 SOUTH RIVER RD CRANBURY, NJ 08512
Phone	609-860-0590
Fax	609-860-8007
Email	GRAE@BBL-INC.COM
Contact	GREG ALBRIGHT
Sampler (Signature)	
Project Name	DOVER-KIRKWOOD
Project Number	052103.009
Sampling Location	KIRKWOOD, NY
P.O. #/Billing Information	
CAS Project No.	P2301571

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	Analysis: VOC TO15	Expedited Turnaround Time 24 Hr (100% Surcharge) 48 Hr (50% Surcharge) Standard (10 Business Days)	Cooler / Blank Temp.	Comments (e.g., preservative or specific instructions)
OFFICE AREA #1	8/5/03	1601		AIR	AC00463	FC00155		X	X		
OFFICE AREA #2	8/5/03	1600		AIR	AC00266	FC00306		X	X		
A/C AREA	8/5/03	1603		AIR	AC00464	FC00334		X	X		
ELECTRICAL AREA	8/5/03	1605		AIR	AC00202	FC00277		X	X		
PERIMETER A	8/5/03	1610		AIR	AC00343	FC00054		X	X		
BACKGROUND	8/5/03	1613		AIR	AC00365	FC00304		X	X		

	Date	Time		Date	Time
Relinquished by: (Signature) Ken Zwozdesky	8/5/03	1700	Received by: (Signature) Aaron Malone	8/6/03	1300
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Additional Comments

White Copy: Accompanies Samples — Yellow Copy: Retained by Client

Columbia Analytical Services, INC.
An Employee - Owned Company

OCT 20 20[illegible]

LABORATORY REPORT

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

NELAC Accredited
2665 Park Center Drive, Suite D • Simi Valley, California 93065
(805) 526-7161 1-800-695-7222 x13 Fax (805) 526-7270
ACIL Seal of Excellence Laboratory

Columbia Analytical Services INC.
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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.

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ACIL Seal of Excellence Laboratory

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/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	0.47	
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: FHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/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	**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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: 10/03/03 Date: KHH

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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	**3.9**	1.2	**1.0**	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	**52**	1.2	**7.7**	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	**2.2**	1.2	**0.50**	0.29	
75-25-2	Bromoform	ND	1.2	ND	0.12	
100-42-5	Styrene	**2.7**	1.2	**0.64**	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

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 l = -1.3 Pf l = 3.5

D.F. = 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KMH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KMH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/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	0.24	
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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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

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/m³	MRL µg/m³	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	**1.3**	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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Blasland, Bouck & Lee, Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P2301994
Client Project ID: **DOVER - KIRKWOOD/05203.010** CAS Sample ID: P030924-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3 Date Received: NA
Analyst: Svetlana Walsh Date(s) Analyzed: 9/24/03
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: KHH Date: 10/03/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KHH 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?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information?	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)	Residual 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):

Columbia Analytical Services INC.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address: BBL
8 SOUTH RIVER RD
CRANBURY, NJ 08512

Project Name: DUVER - KIRKWOOD
Project Number: 05203.016
Sampling Location: KIRKWOOD NY
P.O. #/Billing Information:

CAS Project No.: P2301994

Phone: 609-860-0590 Fax: 609-860
Email: GRA@BBL-INC.COM
Contact: GREG ALBRIGHT
Sampler (Signature):

Analysis: TO-15

Expected Turnaround Time: 24 Hr 48Hr 3Day 4Day 5Day Standard (10 Business Days)

Cooler / Blank Temp

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	Comments (e.g., preservative or specific instructions)
CAFETERIA	9/18/2003	1528	-1	AIR	AC00362	FC00277		
OFFICE REAR	9/18	1529	-2	AIR	AC00201	FC00205		FC00225
OFFICE FRONT	9/18	1530	-3	AIR	AC00389	FC00274		
ELECTRICAL ROOM	9/18	1534	-4	AIR	AC00202	FC00089		
A/C ROOM	9/18	1535	-5	AIR	AC00079	FC00158		
BACKGROUND	9/18	1537	-6	AIR	AC00054	FC00324		

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9/18/03	1630	Sharon Malone	9/19/03	10:00
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Additional Comments

White Copy: Accompanies Samples — Yellow Copy: Retained by Client — COC #13-7/03

2665 Park Center Drive, Suite D Simi Valley, California 93065 (805) 526-7161 ph (805) 526-7270 fax

Columbia Analytical Services™
An Employee - Owned Company

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"	"A/C ROOM"	"ELECTRICAL ROOM"
"CAFETERIA"	"OFFICE-FRONT"	"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

NELAP Accredited AIHA Seal of Excellence Award

2665 Park Center Drive, Suite D Simi Valley, California 93065 (805) 526-7161 ph (805) 526-7270 fax

Columbia Analytical Services™
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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.

NELAP Accredited ACIL Seal of Excellence Award

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: _____ Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = 1.3 Pf l = 3.5

D.F. = 1.14

CAS #	Compound	Result µg/m³	MRL µg/m³	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: KHH Date: 01/16/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KHH Date: 01/20/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KMH Date: 01/31/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KMH Date: 01/30/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/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	0.24	
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: LHH Date: 01/16/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Blasland, Bouck & Lee, Inc.**
Client Sample ID: **CAFETERIA** CAS Project ID: P2400023
Client Project ID: **DOVER - KIRKWOOD/05202.010** CAS Sample ID: P2400023-004

Test Code: EPA TO-15 Date Collected: 1/6/04
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3 Date Received: 1/7/04
Analyst: Svetlana Walsh Date(s) Analyzed: 1/9/04
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00363

Pi I = -0.1 Pf I = 3.5

D.F. = 1.25

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	0.47	
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: _____ Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KHH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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 l = -0.3 Pf l = 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	**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: _____ Date: _____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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: KHH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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: KMH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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
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

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/m³	MRL µg/m³	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: LLH Date: 01/21/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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/m³	MRL µg/m³	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: KH Date: 01/21/04

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.

			Yes	No	N/A
1	Were **custody seals** on outside of cooler/Box?		☐	☒	☐
	Location of seal(s)? _____	Sealing Lid?	☐	☐	☒
	Were signature and date included?		☐	☐	☒
	Were seals intact?		☐	☐	☒
	Were custody seals on outside of sample container?		☐	☒	☐
	Location of seal(s)? _____	Sealing Lid?	☐	☐	☒
	Were signature and date included?		☐	☐	☒
	Were seals intact?		☐	☐	☒
2	Were **sample containers** properly marked with client sample ID?		☐	☒	☐
3	Did **sample containers** arrive in good condition?		☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?		☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?		☒	☐	☐
6	Was **sample volume** received adequate for analysis?		☒	☐	☐
7	Are samples within specified holding times?		☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?		☐	☐	☒
	Cooler Temperature NA °C				
	Blank Temperature NA °C				
9	Is pH (acid) ***preservation*** *necessary, according to method/SOP or Client specified information?*		☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?		☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?		☐	☐	☒
	Does the client/method/SOP *require that the analyst check the sample pH and if necessary alter it?*		☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?		☐	☐	☒
	Do they contain moisture?		☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?		☐	☐	☒
	Are dual bed badges separated and individually capped and intact?		☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)	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.

Columbia Analytical Services INC.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address: BBL
8 SOUTH RIVER ROAD
CRANBURY, NJ 08512

Project Name: POWER - KIRKWOOD
Project Number: 05202.010
Sampling Location: KIRKWOOD, NY
P.O. #/Billing Information:

CAS Project No.: P24CC023

Phone: 609-860-0590 Fax: 609-860-0597
Email: GRA@BBL-INC.COM
Contact: GREG ALBRIGHT
Sampler (Signature):

Analysis: TO-15

Expected Turnaround Time: 24 Hr 48Hr 3Days 4Days 5Days Standard (10 Business Days)

Cooler / Blank Temp.

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	TO-15	Comments (e.g., preservative or specific instructions)
BACKGROUND	1/6	1604	-1	AIR	ACC00142	FC00272		X	
A/C ROOM	1/6	1606	-2	AIR	ACC00127	FC00179		X	
ELECTRICAL ROOM	1/6	1607	-3	AIR	ACC00014	FC00335		X	ACC00363
CAFETERIA	1/6	1609	-4	AIR	ACC00363	FC00158		X	ACC00014
OFFICE - FRONT	1/6	1610	-5	AIR	ACC00164	FC00246		X	
OFFICE - REAR	1/6	1611	-6	AIR	ACC00421	FC00237		X	

	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	1/6/04	18:00		1/7/04	1030
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Additional Comments:

White Copy: Accompanies Samples — Yellow Copy: Retained by Client — COC #12.7/02