

FINAL
CLOSURE REPORT
EXCAVATION OF SOLID WASTE DEBRIS LANDFILLS
C&D: OTH-3505-1 and STUMP DUMP: OTH-3505-2

PLATTSBURGH AIR FORCE BASE
PLATTSBURGH, NEW YORK

Contract No. F41624-97-D-8011
Delivery Order No. 0021

Prepared for

Air Force Center for Environmental Excellence (AFCEE)
Environmental Restoration Division
Brooks Air Force Base, Texas

and the

Air Force Base Conversion Agency
Plattsburgh Air Force Base, New York

Prepared by

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January 2003

**DRAFT CLOSURE REPORT FOR THE EXCAVATION OF SOLID WASTE DEBRIS
LANDFILLS C&D: OTH-3505-1 AND STUMP DUMP OTH-3505-2**

RESPONSE TO USEPA COMMENTS (October 30, 2002)

1. **Section 3.4, Page 3-2.** *In the Soil Screening Section, the text indicates that the screening process was used to “support the separation and stockpiling of excavated soils/fill material,” yet it appears that no readings exceeded the background levels. Clarification is needed regarding how the negative screening results were used in separating materials. .*

Response: If PID readings exceeded background levels by 5 ppm, the soil was placed in a separate stockpile for VOC testing. Since no elevated PID readings were observed, all soil stockpiles were considered “clean”, subject to analytical testing. The text was revised to read “readings never exceeded the background levels. Consequently, all soils were considered “clean”, subject to analytical testing”.

2. **Section 4.1.4. Page 4-4.** *This section includes text describing characterization samples collected at the Stump Dump. The text indicates that Stockpile No. 14 was selectively re-sampled for statistical analysis. No explanation is provided, however, as to the protocol that followed. It would be helpful if additional explanation could be provided regarding the way that a particular pile was selected for “statistical analysis” along with the criterion used to decide whether re-sampling objectives were achieved.*

Response: In accordance with the Work Plan, all sampling and QA/QC protocols and procedures as outlined in EPA SW 846 were followed. As stated on page 4-4, paragraph 3 (TAL Metals), the re-sampling was performed to show the wide variation in Selenium concentrations within a soil stockpile. Stockpile No. 14 was selected because it had the highest reported selenium concentration. This paragraph and referenced Appendix D Section entitled “Characterization Samples for Metal Analysis – Statistical Variability” go on to explain the number of samples collected and statistical analysis of variance to demonstrate the variability of selenium within a soil stockpile was within acceptable limits; thereby meeting the re-sampling objective.

3. **Section 4.3, Page 4-5.** *The second paragraph of this Section includes a sentence which appears to contain a typographical error (While AFCEEE may not consider all “R” qualified data to be usable...) The previous paragraph indicated that any unusable data was qualified with an “R” or rejection qualifier. Therefore, it is unclear why the AFCEE would consider any “R” qualified data as usable. The text needs to be revised. .*

Response: The text in the first paragraph has been revised to read “Potentially unusable data was qualified with an “R” or rejection qualifier...” Data usability is dependent upon project objectives.

4. Section 5.2, Page 5-1 and Section 6.2, Page 6-1. *The volume and disposal location of the asphalt and concrete debris is unclear. The first sentence of Section 5.2 indicates that only a portion, 560 tons, of the material from the C&D Landfill was removed. However, the end of this paragraph indicates that 1250 tons were removed and disposed. Section 6.2 in the first paragraph last sentence indicates that the entire 1,250 tons of material was disposed. Clarification is needed.*

Response: Section 5.2 has been revised to read as follows:

“Only a portion (560 tons) of the concrete and asphalt uncovered at the C&D Landfill was removed and disposed off-site by Valley Sanitation to the Frank Gates’ Property, Route 9 North, Plattsburgh, NY; a registered fill area (Appendix B). Following the determination by NYSDEC to allow the C&D Landfill to be closed as a non-permitted construction and demolition debris landfill under 6 NYCRR Section 360-7.1(b), off-site disposal ceased and the remaining asphalt and concrete fill material was permitted to stay within the landfill.

All the excavated concrete and asphalt were removed from the three Stump Dump fill areas. Approximately 1250 tons of stockpiled concrete and asphalt were transported off-site in roll-off containers from the Stump Dump by Valley Sanitation and were also disposed of at “Frank Gates’ Property”.

Section 6 is divided in two sections: C&D Landfill -- Section 6.1 and Stump Dump -- Section 6.2. Each section quantifies the amount of asphalt and concrete removed and disposed off-site from each area (C&D Landfill – 560 tons and Stump Dump – 1250 tons).

5. Figure 3. *This figure needs to be revised to show Areas 1, 2, and 3, as called out in Section 2.1*

Response: Figure 3 has been revised to show the three areas.

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LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|--------|---|
| AFB | Air Force Base |
| AFBCA | Air Force Base Conversion Agency |
| AFCEE | Air Force Center for Environmental Excellence |
| amsl | above mean sea level |
| ARAR | Applicable or Relevant and Appropriate Requirement |
| AST | above ground storage tank |
| BTEX | benzene, toluene, ethyl benzene, xylenes |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| DOD | Department of Defense |
| EE/CA | Engineering Evaluation/Cost Analysis |
| EPA | U.S. Environmental Protection Agency |
| FFA | Federal Facilities Agreement |
| HQ | Headquarters |
| IRP | Installation Restoration Program |
| MTBE | methyl tertiary butyl ether |
| NCP | National Contingency Plan |
| NPL | National Priorities List |
| NYSDEC | New York State Department of Environmental Conservation |
| PAH | polycyclic aromatic hydrocarbons |
| PARC | Plattsburgh Airbase Redevelopment Corporation |
| RAB | Restoration Advisory Board |
| RCRA | Resource Conservation and Recovery Act |
| RCO | Recommended Cleanup Objective |
| RI | Remedial Investigation |
| QAPP | Quality Assurance Project Plan |
| QA/QC | quality assurance/quality control |
| SARA | Superfund Amendments and Reauthorization Act |
| SI | site investigation |
| SS | spill site |
| SVOC | semivolatile organic compound |
| TAGM | Technical and Administrative Guidance Memorandum |
| TCLP | Toxicity Characteristic Leaching Procedure |
| USAF | United States Air Force |
| USEPA | U.S. Environmental Protection Agency |
| UST | underground storage tank |
| VOC | volatile organic compound |

LIST OF UNITS OF MEASURE

| | |
|-------------------|--|
| bgs | below ground surface |
| ft/ft | foot per feet |
| ft ² | square feet |
| ft/d | feet per day |
| gpm | gallons per minute |
| kg | kilogram |
| K _{oc} | organic carbon-water partition coefficient |
| L | liter |
| mg | milligram |
| mg/kg | Milligram per Kilogram |
| MSL | mean sea level |
| ppb | parts per billion |
| ppm | parts per million |
| yd ³ | cubic yard (CY) |
| µg/kg | micrograms per kilogram |
| µg/l | micrograms per liter |
| µg/m ³ | micrograms per cubic meter |
| mg/m ³ | milligrams per cubic meter |

1.0 INTRODUCTION

This Closure Report summarizes the activities performed to close the Construction and Demolition (C&D) Debris Landfill (OTH-3505-1) and the Stump Dump (OTH-3505-2), at Plattsburgh Air Force Base (PAFB), New York.

1.1 Background

The Final Supplemental Evaluation to the Environmental Baseline Survey (SEBS) Report (URS May 2001) recommended remediation of the C&D Landfill and Stump Dump. During site investigations, an electromagnetic conductivity survey was performed at the two sites and a partial characterization of the fill material based on the results of the survey was accomplished by the excavation of exploratory trenches through each site and representative soil and fill samples collected. These investigations uncovered asbestos-containing material (ACM), metal, concrete, asphalt, miscellaneous C&D debris, and household wastes. Elevated levels of polycyclic aromatic compounds and metals were observed in the fill material.

1.2 Objective

The objectives of these removal activities were to excavate, separate (screen) and stockpile the waste materials from both landfills; conduct confirmation sampling and waste characterization; dispose of the waste materials; and complete site restoration.

1.3 Report Organization

Section 1.0 presents an Introduction. Section 2.0 provides background information and a general description of the C&D Landfill and Stump Dump. Section 3.0 describes the field activities. Section 4.0 summarizes the analytical results of the confirmatory and characterization sampling. Section 5.0 discusses the management of waste material. Section 6.0 presents the conclusions and recommendations. Section 7.0 provides a list of references.

2.0 SITE BACKGROUND AND ENVIRONMENTAL SETTING

2.1 Site Location

PAFB is located in Clinton County in the northeastern corner of New York State. It is bordered by the City of Plattsburgh to the north, Lake Champlain to the east, the Salmon River, and agricultural land to the south, and Interstate 87 to the west. (Figure 1)

The C&D Landfill is located west of the north end of the runway and was formerly a sand and gravel pit used for the disposal of construction and demolition debris such as asphalt, concrete, and waste building materials. The 1.3-acre site also contained ACM transite pipe, tree trunks and stumps, and miscellaneous metal material (wire, cans, re-bar). A site layout is provided in Figure 2.

The Stump Dump is located in the southwest corner of the base and was used for the disposal of vegetative wastes, such as tree stumps and branches. It contains three separate non-contiguous fill areas, covering approximately 0.3 acres. As shown in Figure 3, the areas are designated Area 1, Area 2, and Area 3. Area 1 contained tree trunks, tree stumps, and a large concrete vault. Area 2 contained tree trunks and branches, while Area 3 contained minor amounts of household debris, yard waste, asphalt, concrete, metal, wallboard, and dimensional lumber.

Figure 1 presents a map of Plattsburgh, NY, PAFB, and location of the two sites.

2.2 Previous Investigations

2.2.1 Fill Delineation and Sampling

In order to delineate the depth and lateral extent of fill material at the two sites, the Air Force and its contractor, URS, conducted an electromagnetic conductivity survey and excavated a series of test trenches at each site, as shown in Figures 2 and 3. During these investigation activities, the concentrations of several PAH and metal constituents (Table 1) were in excess of the respective Recommended Cleanup Objectives (RCOs) presented in NYSDEC Technical and Administrative Guidance Memorandum HWR-94-4046 "Determination of Soil Clean-up Objectives and Clean-up Levels" (TAGM #4046, Appendix A, Table 1, Column 9 – VOCs; Table 2, Column 9 – SVOCs; and Table 4, Column 5 – Metals). Two (2) volatile organic compounds (VOCs), methylene chloride and toluene, were found in trace amounts at the C&D Landfill, each below their respective TAGM #4046 RCOs.

Nineteen (19) semi-volatile organic compounds (SVOCs), primarily PAHs, were detected in the C&D Landfill fill material, with seven (7) of the PAHs exceeding the respective TAGM #4046 RCOs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Only one sample at the Stump Dump had a single PAH analyte, benzo(a)pyrene, in excess of the respective TAGM #4046 RCO.

Metals detected in the C&D Landfill included: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Only barium was detected at a concentration greater than the respective RCO. Metals detected in the Stump Dump included: arsenic, barium, cadmium, chromium, lead, and mercury. Of these metals, cadmium, chromium, and lead exceeded the established site background levels for PAFB (URS, 1996).

2.2.2 Federal, State, and Local Actions to Date

There have been no federal, state, or local actions implemented at the C&D Landfill or Stump Dump other than the reported field investigations (URS, May 2001).

2.3 Environmental Setting

2.3.1 Site Hydrology

Groundwater in the Plattsburgh area generally occurs in both the overburden deposits (unconfined aquifer) and in the bedrock (confined aquifer). The Adirondack Mountains to the southwest of Plattsburgh represent the major recharge area for the region, and Lake Champlain represents the regional discharge area. Other locally significant discharge areas include the Salmon and Saranac Rivers.

PAFB obtains its potable water from the City of Plattsburgh municipal water system. Some residences adjacent to the base, however, rely on private wells for drinking water. These private wells are not influenced by the groundwater flow from these sites, because local groundwater flow is away from the residential wells and towards Lake Champlain and the Salmon River.

2.3.2 Site Stratigraphy

Stratigraphy in the C&D Landfill and Stump Dump areas generally consists of four hydrogeologic units: an upper unconsolidated sand aquifer, an underlying confining layer formed by a silt and clay unit, a glacial till unit water-bearing zone, and a thinly bedded dolomite bedrock aquifer.

The shallow sand aquifer consists of fine to medium grain sand with variable amounts of silts, coarse sand, and gravel. This aquifer ranges from 10 to 30 feet (ft) thick in the vicinity of the site. The sand unit typically becomes finer grained with depth, grading textually into the underlying silt and clay unit.

Glacial till overlies the bedrock in the vicinity of the site and consists of a poorly sorted gray sand, silt and clay matrix intermixed with gravel, cobbles, and boulders. The till is reported to be 3 to 15 ft thick. The till is a water-bearing unit; however, it is separated hydraulically from the overlying water table aquifer by the aforementioned silty-clay

confining unit. The bedrock, which underlies the till in the area, is described as thinly, horizontally to sub-horizontally bedded dolomite.

3.0 REMOVAL ACTIVITIES NARRATIVE

Project plans were prepared to support the removal activities, including a Work Plan (WP), Field Sampling Plan (FSP), Quality Assurance Project Plan (QAPP) and Site-Specific Environmental Health and Safety Plan (SSEHSP). The WP was submitted to the NYSDEC and USEPA for review in August 2000. After regulatory comments were addressed, the WP was finalized in October 2000, which served as the basis for the removal activities. Versar mobilized to the site on October 23, 2000. Appendix A, Photo Log, provides photographs of the field activities.

3.1 Site Preparation

The following site preparation activities were conducted:

- Access to the site for Versar representatives and subcontractors was coordinated,
- Site utility maps were reviewed,
- Clearing and grubbing were performed at both site locations,
- Containment areas were constructed with 6 ml Visqueen to stage removed soil for characterization, and
- Roll-off containers were staged for separated waste components.

3.2 Site Utilities and Sensitive Features

A mark-out was performed for all active utilities. No electric, water, sewer, storm water or gas lines were identified at either site. An active communications line was identified and marked near the southwest corner of the C&D landfill. Utility poles with high voltage electrical service were protected during the excavation activities at the Stump Dump.

3.3 Health and Safety

The Versar site superintendent served as the Site Health and Safety (H&S) Officer. The site superintendent insured that all Versar and subcontractor personnel were familiar with the SSEHSP (Versar, 2000b) and conducted a site orientation to familiarize them with site-specific hazards. The site superintendent also conducted daily H&S meetings each morning prior to beginning work.

The onsite work was conducted utilizing Level D personal protection (hard hat, safety glasses, steel-toed work boots, and work gloves). Noise protection was worn when the Tub Grinder was deployed to chip wood. Access to open excavation areas was restricted using both high-visibility fencing and caution tape.

3.3.1 Volatile Organic Vapor Air Monitoring

Due to the potential presence of the VOCs, air monitoring was conducted at regular intervals using a photo ionization detector (PID). No elevated PID readings were observed within the breathing zone during removal activities.

3.3.2 Particulate Air Monitoring

Air monitoring for airborne particulates was conducted at the C&D Landfill site using a PDR-1000 particulate air-monitoring device. The device was activated during the excavation and soil screening activities during the first two weeks of remedial activities. Airborne particulates were monitored to be no higher than 0.040 mg/m³ over an eight-hour day. Background levels ranged from 0.030 – 0.040 mg/m³.

3.4 Soil Screening

Soil samples were collected periodically during the excavations from random discrete locations and screened for volatile organic vapor concentrations. Samples were also collected from excavation pit sidewalls and bottoms. Approximately 4 to 8 ounces of soil were placed in a sample jar and covered with plastic wrap and aluminum foil. The sample was then warmed using a vehicle-heating vent for 10 to 15 minutes allowing the volatile organic vapors to collect in the headspace above the soil. The aluminum/plastic cover was then punctured using the wand of the PID and the highest concentrations of vapor were recorded.

In accordance with the WP, if the headspace volatile organic vapor concentration was 5 parts per million (ppm) above native background levels, the soil was categorized as “suspected contaminated,” if the headspace analysis was below the background level, the soil was considered “clean”, subject to analytical testing. This screening process was used to support the separation and stockpiling of excavated soils/fill material; however, readings never exceeded the background levels. Consequently, all soils were considered “clean”, subject to analytical testing.

3.5 Excavation, Separation, and Removal Activities

3.5.1 C&D Landfill

Versar initiated site activities on October 26, 2000 (Photo No. 1). Prior to excavation, a tub-grinder was employed to process the approximately 800 cubic yards (CY) of stumps and dead trees that had been stockpiled atop the landfill (Photo No. 2). Excavation and screening of the fill material then began in the southwest area of the landfill using a track excavator, backhoe, skid steer loader, front-end loader, and a power shaker screen (Photo No. 3). After 2,000 CY of material were processed, only rocks, sheets of asphalt paving,

concrete, and a few pieces of metal and transite pipe were uncovered (Photo Nos. 3 and 4). The excavated soil was stockpiled and staged (Photo No. 6). The concrete, asphalt, and rock were separated from the soil using the power shaker screen (Photo No. 3) and stockpiled. Metal pieces and the transite pipe were also staged in separate piles. No other waste material was observed, nor were there any observed PID headspace readings above native background soil, stained soil, or odor emitting from the fill material.

The lack of non-C&D waste material or potentially contaminated soil prompted Air Force personnel to notify NYSDEC and request an inspection of the site and a modification to the WP. Specifically, the Air Force requested NYSDEC to characterize the site for classification as a non-permitted construction and demolition debris fill, under Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Section 360-7.1(b) applicable to non-permitted concrete and asphalt fill areas.

Rather than continuing a complete excavation and soil separation of the site, exploratory trenching (Photo No. 5) was performed within the fill area to further demonstrate that the fill material was predominantly composed of rocks, concrete, and asphalt (Figure 4) in preparation of the NYSDEC site inspection. After an on-site inspection in late November, NYSDEC personnel agreed in-principle to allow in-place closure of the landfill, exempt from permit requirements, but requested the Air Force to submit a proposal to modify the WP and its associated sampling plan. An amended confirmation sampling plan was submitted to the regulatory agencies for review and approval on November 29, 2000 to collect VOCs, SVOCs and TAL metals sidewall and bottom samples, the sidewalls and bottoms from the existing excavation and test pits (Figure 4). A formal letter was submitted by the Air Force on December 6, 2000 (Appendix B) that requested the following changes to the work plan:

- Closure of the C&D Landfill as a non-permitted fill area under 6 NYCRR 360,
- Confirmation sampling in accordance with the November 29, 2000 sampling plan, with VOCs samples collected approximately 1-foot below the bottom or into the sidewall of the trenches in the locations shown in Figure 4,
- Excavation and inspection of the undisturbed soil between the trenches and removal and separation of all material not in compliance with the definition of C&D debris as stated in 6 NYCRR 360,
- Consultation with regulatory agencies as the nature and extent of material found, and
- Sampling of soil stockpiles prior to use as backfill.

Confirmation and soil stockpile characterization was conducted on December 7, 2000 (Sections 4.1.1 and 4.1.2) and the site secured for the winter months. Analytical results indicated PAH exceedences of the TAGM #4046 RCOs, all of which were attributed to presence of asphalt (Section 4.1.1).

Following review of the confirmation sampling results by the regulatory agencies, Versar resumed excavation activities in October 2001 to investigate the remaining in-place material (Photo Nos. 7 and 8) and remove non-compliance C&D material. The excavation uncovered pieces of metal and transite pipe (Photo No. 3). No other waste material was observed, other than concrete and asphalt.

All stockpiles soils were acceptable for use as backfill for site restoration. In addition, Versar was directed to mix the stockpiled soil with the 800 CY of wood chips generated from the tub-grinder operation prior to backfilling the stockpiles into the open excavation. In addition, NYSDEC granted the transfer of 3,500 CY of C&D contaminated soils from the Stump Dump for placement into the C&D Landfill. The site was then graded for proper drainage utilizing a loader and bulldozer (Photo No. 9). Field activities were completed on November 8, 2001.

3.5.2 Stump Dump

Excavation activities began November 15, 2000 (Photo No. 10), using a tub-grinder to chip a few dead trees and stumps that were stockpiled atop of the site. Excavation and soil screening began at Area 1 (Figure 3, Photo Nos. 10 and 11), which is along the northwest boundary of the site using the same operational equipment and procedures employed at the C&D Landfill. Area 1 contained a large concrete vault, several large tree stumps (Photo No. 11), a few bags of dead leaves, and burnt logs. The excavation continued onto Areas 2 and 3. Area 2 contained tree roots and a few burnt logs (Photo No. 12), while Area 3 contained a wide range of material including household debris, empty crushed metal drums, construction and demolition debris, and miscellaneous household debris (Photo Nos. 13 and 14). The excavated soil was separated and stockpiled into 23 piles (Photo No. 12). Excavated concrete (including the vault found in Area 1) and asphalt were reduced to a manageable size and stockpiled (Photo No. 13). Household, other debris, and metal were also separated and stockpiled for off site disposal (Photo No. 15). Unlike the C&D Landfill, all fill material was excavated, screened, and separated with all waste material removed off-site prior to securing the site for the winter months. The combined excavations total 4,025 CY.

No other waste material was observed, nor were there any PID headspace readings above native background soil levels, observed stained soil, or odor emitting from the fill material. Post-excavation/confirmation and soil stockpile characterization samples were collected on May 7, 2001, and selective re-sampling was performed on May 23, 2001 (Sections 4.1.3 and 4.1.4).

After regulatory agency review of the analytical results, it was concluded that the limits of excavation were "clean" and acceptable for clean closure. However, restrictions were placed on the soil stockpiles. The stockpiles showing no TAGM #4046 exceedences (525 cy) were permitted to be backfilled in the Stump Dump (Photo No. 16), while the

remaining stockpiles containing PAH exceedences were transferred (Photo No. 17) for placement in the C&D Landfill (3,500 cy).

As part of site restoration, Versar was directed to mix the “clean” stockpiled soil with the wood chips (100 CY) generated from the tub-grinder operation prior to backfilling the clean soil stockpiles. The site was then graded for proper drainage utilizing a loader and bulldozer (Photo No. 16). Field activities were completed on November 8, 2001.

4.0 CONFIRMATION AND CHARACTERIZATION SAMPLING

4.1 Sampling and Analysis

Confirmation sampling performed at the C&D Landfill and Stump Dump was used to determine the adequacy of contaminated soil removal at the limits of the excavation areas, while characterization sampling was used to characterize the soil stockpiles generated from the excavation activities. The Data Validation/Usability Reports, dated March 28, 2001, and July 10, 2001, addressing the confirmation sampling are provided in Appendix C for the C&D Landfill and Stump Dump, respectively. Data validation reports were not required for the characterization samples.

All confirmation samples were analyzed for VOCs, SVOCs, and Target Analyte List (TAL) Metals in accordance with EPA Methods SW846-8260B, SW846-8270C, and SW846-6010B/7471, respectively. Characterization samples were analyzed for SVOCs and TAL Metals in accordance with the respective above-referenced EPA Method. Analyte concentrations were compared to the respective TAGM #4046 (Appendix B) RCOs for soil to determine if clean conditions were achieved and to determine possible disposal requirements.

4.1.1 C&D Landfill Confirmation Samples

On December 7, 2000, confirmation soil sampling was performed in accordance with a modified sampling plan. Confirmation samples were collected from the bottom and sidewalls of trenches, test pit bottoms, and excavation areas. There were no chemical odors or discoloration of the soils encountered. All samples were discrete and collected approximately 12 inches below the soil surface. The sampling locations are shown on Figure 4, and the analytical results are summarized in Tables 2 through 4.

VOCs

There were no exceedences of the respective TAGM #4046 RCOs for VOCs in confirmation samples collected at the C&D Landfill (Tables 2A, 2B, and 2C).

SVOCs

Concentrations of benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and chrysene exceeded the respective TAGM #4046 RCOs in several of the confirmation samples (Tables 3A, 3B and 3C). All compounds that exceeded the RCOs are typical constituents of asphalt products, as reported in the Hazard Review Report by the U.S. Department of Health and Human Services entitled, Health Effects of Occupational Exposure to Asphalt, December 2000 (Table 10). The excavation and trenching activities conducted at the C&D Landfill uncovered large sheets of asphalt paving and, as a result, the SVOC detections exceeding the respective RCOs can be assumed to originate from asphalt present in the fill material.

TAL Metals

The TAL metals results for confirmation samples collected at the C&D Landfill showed exceedences of the respective TAGM #4046 RCOs for selenium (Se), calcium (Ca), and magnesium (Mg) in select bottom, sidewall, and pit samples (Tables 4A, 4B, and 4C). The two selenium exceedences at Sample Locations P-03 and B-13 (2.9 and 2.7 mg/kg), were only slightly greater than the RCO of 2.0 mg/kg and can be considered to represent natural background levels (URS, 1996). Similarly, Zinc exceedences at Sample Locations B-13 and P-03 (73.9 and 87.8 mg/kg) were only slightly greater than the RCO of 63.4 mg/kg. The exceedence for calcium at Sample Location B-01 (41,000 mg/kg) and the magnesium concentration at Sample Location B-10 (8,430 mg/kg), were compared to the established background levels for PAFB of 30,200 mg/kg for calcium and 3,340 mg/kg for magnesium and were also evaluated according to TAGM #4046 guidelines (pages 1 and 2) pose no apparent carcinogenic (Item a) or systemic (Item b) threat to human health and/or the environment. However, the detections exceed the RCO average site background levels (Item d) for native soils by factors of 1.3 and 2.5, respectively. The presence of calcium and magnesium in the soil poses no apparent threat to groundwater supplies. Appendix D provides a detailed discussion regarding the detected metals concentrations versus established site background levels for PAFB.

4.1.2 C&D Landfill Characterization Samples

Characterization samples (two-point composites) were collected on December 7, 2000. During the course of excavation activities, PID readings did not exceed observed background levels of 4-5 ppm (Photo No. 18). The twelve (12) soil stockpile locations are shown on Figure 5. The analytical results are summarized in Table 8A and 8B.

SVOCs

The SVOC analytical results for characterization samples (Table 8A) showed several PAH analytes exceeding the respective TAGM #4046 RCOs. As previously discussed, the SVOC detections can be assumed to originate from asphalt present in the fill material.

TAL Metals

The TAL Metals results for characterization samples showed concentrations exceeding the respective TAGM #4046 RCOs for barium, calcium, and magnesium. The barium exceedence, Soil Stockpile SP-01 (369 mg/kg, Table 8B-TAL Metals) was only slightly above the RCO of 300 mg/kg. The exceedences for calcium at Soil Stockpiles SP-05, SP-09, and SP-12 (31,800 mg/kg, 32,600 mg/kg and 61,100 mg/kg, respectively) and the magnesium exceedences at Soil Stockpiles SP-05 and SP-12 (5,380 mg/kg and 4,460 mg/kg), were compared to established background concentrations of 30,200 mg/kg for calcium and 3,340 mg/kg for magnesium. The presence of calcium and magnesium in the fill area is unlikely to threaten human health or the environment. As previously discussed, these concentrations pose no apparent carcinogenic or systemic threat to

human health and/or the environment, although they exceed the RCO background levels for native soils by factors of 2.0 and 1.6, respectively. The presence of calcium and magnesium in the fill area is unlikely to threaten human health or the environment.

4.1.3 Stump Dump Confirmation Samples

On May 7, 2001, confirmation soil sampling was conducted in accordance with the WP that included several re-tests of select TAL Metals. A selective re-sampling event was performed on May 23, 2001. Sampling locations are shown on Figure 7. Sample A1-01 was collected in the southwest corner of Area 1, where the soil was a dark shade of brown compared to the reddish brown sandy soil in the other portions of Area 1. All other samples were collected randomly throughout the excavation areas. The analytical results are summarized in Tables 5, 6 and 7.

VOCs

There were no exceedences of the respective TAGM #4046 RCOs for VOCs in confirmation samples collected at the Stump Dump Landfill (Table 5).

SVOCs

The only SVOC analyte exceedence of the respective RCOs occurred in Area 1, Sample No. A1-01. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and chrysene exceeded the respective RCOs. The previously reported presence of charred logs within the fill material of the Stump Dump (URS, 2000) indicates a possible source of PAH by-products in the soil (i.e., due to incomplete combustion) at Location A1-01. A second set of samples (No. A1-01A and A1-01B – Table 6, were collected immediately adjacent to Location A1-01 (Figure 7) on June 23, 2001 and analyzed for SVOCs to demonstrate that the contamination was confined to a limited area or was a possible anomaly. No SVOCs were found in these samples above the method detection limits (Table 6). Therefore, it appears that the elevated levels of SVOC analytes reported in Sample A1-01 can be considered a "deminimis" quantity.

TAL Metals

The only TAL Metal exceedences of the respective RCOs also occurred in Area 1. The selenium concentrations at Locations A1-01, A1-02, A1-02 (duplicate) and A1-03 (2.91 mg/kg, 2.06 mg/kg, 2.63 mg/kg and 2.23 mg/kg, respectively, Table 7), were only slightly greater than the respective TAGM #4046 RCO of 2.0 mg/kg. The samples were collected from the native soil beneath the fill area, approximately 12-inches below the soil surface. The collected samples were retested twice to demonstrate the inherent variability of soil metal concentration due to the heterogeneity of the soil matrix. In each case, the retests were below the respective RCO.

4.1.4 Stump Dump Characterization Samples

Characterization samples (two-point composites) were collected on May 7, 2001 and a selective re-sampling of Stockpile No. 14 was completed on May 23, 2001 for statistical analysis. Twenty-three (23) soil stockpiles were sampled at locations depicted in Figure 6. The analytical results are summarized in Tables 9A and 9B.

SVOCs

The SVOC analytical results showed several PAH analytes exceeded the TAGM #4046 RCOs associated only with soil from Area 3 (Table 9A). Soil stockpiles from Area 1 and 2 had no exceedences. The compounds that exceeded the TAGM #4046 RCOs are all constituents of asphalt products, as reported in the Hazard Review Report by the U.S. Department of Health and Human Services entitled, Health Effects of Occupational Exposure to Asphalt (December 2000) - Table 10. The excavation activities at Area 3 uncovered asphalt paving throughout the fill material, and the smaller pieces could not be screened and separated. As a result, it can be concluded that the PAH analytes exceeding the TAGM #4046 RCOs are likely due to the asphalt material present in the fill material.

TAL Metals

The analytical results of several soil stockpile samples reported TAL Metals exceeding the respective TAGM #4046 RCOs for selenium, lead, and zinc, as shown in Table 9B. The selenium exceedences were greater than the RCO of 2.0 mg/kg, but resampling showed the sample concentrations to be below the RCO value. Stockpile SP-14, which showed the highest selenium value, was re-sampled to demonstrate the inherent variability of soil metal concentrations due to such factors as the heterogeneity of the soil matrix and/or presence of an anomaly. The original sample was rerun for selenium, and three additional samples were collected that consisted of a grab sample, and two identical split composite samples. One of the split samples was sub-sampled and tested seven times. The results and associated data analysis are presented in Appendix D. The section entitled "Characterization Samples for Metal Analysis – Statistical Variability" shows the wide variability in sampling results and that the results are considered to be within the RCO guideline value. A similar case can be established for lead and zinc. Two Stockpiles, SP-16 and SP-21, showed lead levels slightly above the RCO of 79.4 mg/kg (90.3 and 96.9 mg/kg, respectively -- Table 9B); however, retests of the samples produced results of 32 mg/kg and 15.9 mg/kg, respectively, which are well below the guideline value. Zinc was also reported above the RCO in samples collected from five of the stockpiles (Table 9B), but retests of the same sample from the respective stockpiles also showed results below the RCO, again demonstrating the wide variability in reported metal concentrations for the same sample.

4.2 Sample Handling and Documentation

The soil samples collected during the course of this project were submitted for analysis to Kemron Environmental Services, Inc. (Kemron) located at 109 Starlite Park, in Marietta,

OH as prescribed in the QAPP. All collected samples were immediately placed into appropriate laboratory-supplied sample jars. Labels with all pertinent data were fixed to each sample jar for identification. Samples were then placed on ice in sample coolers to maintain a temperature of 4°C. All sample locations, dates, times, depths (if needed) and other observations were recorded in the field logbook. Strict chain-of-custody (COC) procedures were followed to establish a complete sample custody record from the time of sample collection until laboratory receipt.

4.3 Data Validation

A data validation usability report was produced for all confirmation samples (Appendix C). The results were reviewed and “qualified” if there were any concerns regarding the usability of the data. Potentially unusable data was qualified with an “R” or rejection qualifier as shown in the tables referenced in Sections 4.1.1 and 4.1.3 and in Appendix C.

AFCEE data qualification protocols rely heavily on evaluating contract compliance in addition to evaluating data quality impacts and can result in significantly more data receiving an “R” qualifier than if current USEPA protocols were utilized. While AFCEE may not consider all “R” qualified data to be usable, depending on project objectives, it can lead to confusion when submitted to state and federal regulatory agencies where the “R” qualifier is only applied to data with serious QC deficiencies. The “R” qualified data was the result of minor QC excursions that under USEPA protocols might not even have been qualified as estimated based on the data reviewer judgment. Many of the “R” qualifiers were placed on chemical compounds considered to be of no concern, with the exception of four SVOC samples at the C&D Landfill, all of which was attributed to the asphalt/PAH contamination. The qualifiers had no impact on the conclusions presented in this report. The validation packages were provided to the regulatory agencies for review and comment.

The AFCEE-QAPP quality control limits are more conservative than the guidance limits provided in the USEPA's SW-846 individual analytical methods. Additionally, the AFCEE protocols for evaluating data quality are significantly more stringent than those provided in USEPA's national functional guidelines for organic data review (EPA 540/R-99/008, October 1999), especially in regards to calibration non-compliance and suspected matrix effects.

Duplicate analyses demonstrated the non-homogeneity of the soil, which showed a sample may have analyte(s) exceedences of TAGM #4046 RCOs, while the duplicate sample showed analyte(s) concentrations below the guideline value.

5.0 WASTE MANAGEMENT

5.1 Contaminated Soil

Asphalt-contaminated soil stockpiles at the C&D Landfill identified as containing exceedences of the respective TAGM #4046 RCOs for PAH were allowed to be backfilled into the C&D Landfill following a change in closure classification and concurrence with NYSDEC. Similarly, approximately 3,500 CY of C&D-contaminated soil stockpiles from the Stump Dump were transported to the C&D landfill, and used as backfill.

5.2 Concrete and Asphalt

Only a portion (560 tons) of the concrete and asphalt uncovered at the C&D Landfill was removed and disposed off-site by Valley Sanitation to the Frank Gates' Property, Route 9 North, Plattsburgh, NY; a registered fill area (Appendix B). Following the determination by NYSDEC to allow the C&D Landfill to be closed as a non-permitted construction and demolition debris landfill under 6 NYCRR Section 360-7.1(b), off-site disposal ceased and the remaining asphalt and concrete fill material was permitted to stay within the landfill.

All the excavated concrete and asphalt was removed from the three Stump Dump fill areas. Approximately 1250 tons of stockpiled concrete and asphalt were transported off-site in roll-off containers from the Stump Dump by Valley Sanitation and also disposed at the Frank Gates' Property.

5.3 C&D Material

No C&D material or household wastes were found at the C&D Landfill, while 6.96 tons of C&D debris and household wastes were excavated and staged/stockpiled at the Stump Dump. The materials were subsequently transported in a roll off container by Valley Sanitation to the Franklin County Landfill, a permitted solid waste disposal facility. The bill of lading is presented in Appendix E.

5.4 Asbestos Containing Material

Approximately 200 pounds of transite-pipe was removed from the C&D Landfill. The separated and stockpiled material was transported by MC Environmental Services to the Chemical Waste Services, Inc. disposal facility located in Model City, NY. The bill of lading is presented in Appendix E.

5.5 Recyclable Metal

Approximately 20 tons of recyclable metal was removed from the C&D Landfill and Stump Dump and transported in roll-off containers by Valley Sanitation to Atkinsons' Scrap Metal, 1239 Route 22B, Morrisonville, NY.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 C&D Landfill

A total of approximately 12,000 CY of fill material within the C&D Landfill were excavated and inspected, comprised predominately of asphalt and concrete. Off-site disposal and recycling were limited to the removal of approximately 5 tons of recyclable metal, 200 pounds of transite pipe, and 560 tons of concrete and asphalt.

The lack of non-C&D waste material and potentially contaminated soils prompted Air Force personnel to contact the regulatory agencies and request consideration of the C&D Landfill for closure as a non-permitted construction and demolition debris landfill exempt from 6 NYCRR Section 360-7.1(b). With the concurrence of NYSDEC, it was decided that the C&D Landfill would be closed under this exemption, allowing the twelve (12) asphalt-attributed PAH-laden soil stockpiles generated from excavation activities to be backfilled along with the placement of approximately 3,500 cubic yards of C&D contaminated soils from the Stump Dump prior to final grading and site restoration (Photo No. 19). As part of the closure, however, it is recommended that a deed notification for the C&D Landfill be provided to note the former site history, past investigation/removal activities, and residual contamination should future development be considered.

6.2 Stump Dump

Approximately 4,025 CY of fill material were excavated, screened and source separated from the three non-contiguous fill areas. The excavation uncovered concrete, asphalt, rock, trees, stumps, logs, household debris, empty crushed metal drums, and C&D debris. Off-site disposal and recycling consisted of the removal of 15 tons of recyclable metal, 6.96 tons of miscellaneous C&D and household wastes, and 1,250 tons of concrete and asphalt.

Analytical results of confirmation sampling performed at the limits of excavation within Areas 2 and 3 showed all analyte levels below the respective TAGM #4046 RCOs. Area 1 showed selenium concentrations slightly above the RCO, but they were considered statistically equivalent to background levels as noted in Section 4.1.3 and Appendix D. One sample from Area 1 also contained PAHs exceeding their respective RCOs; however, re-sampling confirmed that the contamination was limited to a small area and considered a "deminimis" quantity.

The characterization samples collected from the stockpiled soils indicated the presence of PAHs and TAL Metals above the respective TAGM #4046 RCOs. The PAH contamination was attributed to the presence of asphalt in the soil. TAL Metal analytes that exceeded the RCOs were retested to demonstrate the wide variability in metal levels

for the same samples, and showed the exceedences were within the tolerance limits for the guideline value.

Clean closure of the Stump Dump was therefore considered a viable option. The C&D-contaminated soil stockpiles (3,500 CY) that were not suitable for backfill were transferred to the C&D Landfill with the concurrence of the NYSDEC. The remaining 525 CY of soil was used as clean fill to achieve proper grading for drainage (Photo No. 20). No further action is recommended for the Stump Dump.

7.0 REFERENCE

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8. SW-846. U.S. Environmental Protection Agency (USEPA), 1986, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, SW-846, Third edition, Final Update I (July 1992), Final Updates II and IIA (September 1994), Update III (December 1996), and Draft Update IVA (January 1998).

TABLE 1
VOCs, SVOCs, AND METALS DETECTED IN THE SOIL SAMPLES

COLLECTED FROM THE C&D LANDFILL AND STUMP DUMP (Maximum Values)*-- URS, May 2001 Final Supplemental Evaluation EBS Report

| Parameter (Analyte) | Fill Material Concentration C&D Landfill (mg/kg) | Fill Material Concentration Stump Dump (mg/kg) | Recommended Soil Cleanup Objective (mg/kg)** |
|----------------------------|--|--|--|
| VOCs | | | |
| Methylene Chloride | 0.00376 | ND | 0.1 |
| Toluene | 0.00156 | ND | 1.5 |
| SVOCs | | | |
| Acenaphthylene | 0.217 | ND | 41 |
| Acenaphthene | 0.781 | ND | 50 |
| Anthracene | 3.3 | ND | 50 |
| Benzo(a)anthracene | 6.353*** | 0.194 | 0.224 or MDL |
| Benzo(a)pyrene | 25.168*** | 0.222*** | 0.061 or MDL |
| Benzo(b)fluoranthene | 20.022*** | 0.264 | 1.1 |
| Benzo(g,h)perylene | 8.557 | 0.081 | 50 |
| Benzo(k)fluoranthene | 20.134*** | 0.382 | 1.1 |
| Bis(2-Ethylhexyl)phthalate | ND | 5.039 | 50 |
| Butylbenzylphthalate | 0.102 | ND | 50 |
| Carbazole | 1.02 | ND | -- |
| Chrysene | 8.870*** | 0.269 | 0.4 |
| Dibenzofuran | 0.928 | ND | 6.2 |
| Fluoranthene | 13.647 | 0.376 | 50 |
| Fluorene | 2.058 | ND | 50 |
| Dibenzo(a,h)anthracene | 0.644*** | ND | 14 |
| Indeno(1,2,3-cd)pyrene | 3.937*** | ND | 3.2 |
| Naphthalene | 2.08 | ND | 13 |
| Phenanthrene | 13.87 | 0.189 | 50 |
| Pyrene | 17.45 | 0.551 | 50 |
| METALS | | | |
| Arsenic | 3.15 | 3.500 | 7.5 |
| Barium | 1,186 *** | 0.724 | 300 |
| Cadmium | 1.2 | 79+++ | 1.3 (SB) |
| Chromium | 10.88 | 780+++ | 19.4 (SB) |
| Lead | 45 | 2,025+++ | 79.4 (SB) |
| Mercury | 0.08 | 0.110 | 0.65 (SB) |
| Selenium | 1.86 | ND | 2.0 |
| Silver | 1.14+++ | ND | ND (SB) |

* Analytical data obtained from URS Consultants, Inc., Draft Supplemental Evaluation to the Environmental Baseline Survey Report, May 2000.

** NYSDEC TAGM 4046: recommended soil cleanup objective

*** Shaded block identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM cleanup objective

(SB): Site background levels. Source: URS Consultants Inc., 1995 Background Surface Soil & Groundwater Survey for the Plattsburgh AFB.

+++ Fill material metal analyte exceeds the historical site background levels.

TABLE 2A
VOCs - C&D LANDFILL CONFIRMATION SAMPLING RESULTS BOTTOM SOILS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | B-01 | B-02 | B-03 | B-04 | B-05 | B-06 | B-07 | B-08 | B-09A | B-09B sample duplicate | B-10 | B-11 | B-12 | B-13 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|------------------------|-------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|---|
| Acetone | | 0.0045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.200 |
| Benzene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.060 |
| 2-Butanone | | 0.0042 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| Chloroform | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| Chloroethane | | 0.0015 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.900 |
| 1,2 Dichloroethane | | 0.0006 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| 1,2 Dichloroethane | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| Ethylbenzene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.500 |
| Methylene Chloride | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Tetrachloroethene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.400 |
| Toluene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.500 |
| 1,2,4 Trimethylbenzene | | 0.0005 | 0.00031 F | 0.00029 F | 0.00033 F | 0.00028 F | 0.00032 F | 0.00027 F | 0.00030 F | 0.00032 F | 0.00030 F | ND | 0.00028 F | 0.00029 F | 0.00029 F | 0.00025 F | 0.00025 F |
| Styrene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| Vinyl Chloride | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.200 |
| Xylenes (total) | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.200 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 1, Column 9.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RL).

TABLE 2B
VOCs - C&D LANDFILL CONFIRMATION SAMPLING RESULTS SIDEWALL SOILS (mg/kg)*

| ANALYTE | SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | S-01 | S-02 | S-03 | S-04 | S-05 | S-06 | S-07B sample duplicate | S-07A | S-08 | S-09 | S-10 | S-11 | S-12 | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|----------------------------|-------------------------------|-------------|-----------|------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Acetone | | 0.0045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.200 |
| Benzene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.060 |
| 2-Butanone | | 0.0042 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| Chloroform | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| Chloroethane | | 0.0015 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.900 |
| 1,2-Dichloroethane | | 0.0006 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| 1,2-Dichloroethane (total) | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| Ethylbenzene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.500 |
| Methylene Chloride | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Tetrachloroethene | | 0.0005 | 0.00087 F | ND | 0.00063 F | 0.00047 F | ND | ND | 0.00071 F | 0.00120 F | ND | ND | ND | ND | ND | 1.400 |
| Toluene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.500 |
| 1,2,4-Trimethylbenzene | | 0.0005 | ND | ND | 0.00029 F | 0.00038 F | 0.00036 F | 0.00030 F | 0.00030 F | 0.00031 F | 0.00032 F | 0.00031 F | 0.00027 F | 0.00026 F | 0.00027 F | -- |
| Styrene | | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| Vinyl Chloride | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.200 |
| Xylene (total) | | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.200 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 1, Column 9.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RL).

TABLE 2C
VOCs - C&D LANDFILL CONFIRMATION SAMPLING RESULTS FOR TEST PIT SOILS -(mg/kg)*

| SAMPLE LOCATION* (sample no.) | ANALYTE | MDL (mg/kg) | P-01 | P-02 | P-03 | P-04 | P-05A | P-05B sample duplicate | P-06 | P-07 | P-08 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|--|----------------------------|------------------------|-------------|-------------|-------------|-------------|--------------|---------------------------------------|-------------|-------------|-------------|--|
| | Acetone | 0.0045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.200 |
| | Benzene | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.060 |
| | 2-Butanone | 0.0042 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| | Chloroform | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| | Chloroethane | 0.0015 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.900 |
| | 1,2 Dichloroethane | 0.0006 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| | 1,2 Dichloroethene (total) | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 |
| | Ethylbenzene | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.500 |
| | Methylene Chloride | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| | Tetrachloroethene | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.400 |
| | Toluene | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.500 |
| | 1,2,4 Trimethylbenzene | 0.0005 | 0.00031 F | 0.00029 F | 0.00033 F | 0.00028 F | 0.00032 F | 0.00027 F | 0.00030 F | 0.32 F | 0.00030 F | -- |
| | Styrene | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| | Vinyl Chloride | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.200 |
| | Xylene (total) | 0.001 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.200 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples.

TABLE 3A
SVOCs - C&D LANDFILL CONFIRMATION SAMPLING RESULTS BOTTOM SOILS -(mg/kg)*

| SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | B-01 | B-02 | B-03 | B-04 | B-05 | B-06 | B-07 | B-08 | B-09A | B-09B sample duplicate | B-10 | B-11 | B-12 | B-13 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|----------------------------------|----------------|------|---------|------|---------|------|------|------|------|---------|------------------------------|------|------|---------|---------|--|
| Acenaphthene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.057 | ND | ND | ND | ND | 50.0 |
| Acenaphthylene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 41.0 |
| Anthracene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.341 | ND | ND | ND | ND | 50.0 |
| Benzoic Acid | 0.33 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.7 |
| Benzo(a)anthracene | 0.083 | ND | 0.113 F | ND | 0.038 F | ND | ND | ND | ND | 0.057 F | 0.883 | ND | ND | ND | 0.042 F | 0.224 or MDL |
| Benzo(b)fluoranthene | 0.083 | ND | 0.129 F | ND | 0.048 F | ND | ND | ND | ND | 0.058 F | 0.549 F | ND | ND | 0.035 F | 0.062 F | 1.1 |
| Benzo(k)fluoranthene | 0.083 | ND | 0.107 F | ND | ND | ND | ND | ND | ND | 0.035 F | 0.414 F | ND | ND | ND | ND | 1.1 |
| Benzo(a)pyrene | 0.083 | ND | 0.112 F | ND | ND | ND | ND | ND | ND | 0.033 F | 0.309 F | ND | ND | ND | ND | 50.0 |
| Bis(2-ethylhexyl) phthalate | 0.083 | ND | 0.062 F | ND | ND | ND | ND | ND | ND | 0.050 F | 0.546 F | ND | ND | 0.030 F | 0.050 F | 0.061 or MDL |
| Carbazole | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | 0.043 F | ND | 43 F | ND | ND | 0.041 F | 50.0 |
| Chrysene | 0.083 | ND | 0.114 F | ND | 0.039 F | ND | ND | ND | ND | 0.059 F | 0.892 | ND | ND | ND | 0.046 F | 0.400 |
| Dibenz(a,h)anthracene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.072 F | ND | ND | ND | ND | 6.2 |
| Fluoranthene | 0.083 | ND | 0.195 F | ND | 0.057 F | ND | ND | ND | ND | 0.073 F | 1.98 | ND | ND | 0.041 F | 0.071 F | 50.0 |
| Fluorene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.224 F | ND | ND | ND | ND | 50.0 |
| Indeno(1,2,3-cd)pyrene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.267 F | ND | ND | ND | ND | 3.2 |
| Naphthalene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13.0 |
| 2-Methylnaphthalene | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 36.4 |
| Phenanthrene | 0.083 | ND | 0.101 F | ND | ND | ND | ND | ND | ND | ND | 2.35 | ND | ND | ND | ND | 50.0 |
| Pyrene | 0.083 | ND | 0.164 F | ND | 0.047 F | ND | ND | ND | ND | 0.094 F | 1.75 | ND | ND | 0.039 F | 0.064 F | 50.0 |

ND: Not Detected; MDL: Minimum Detection Level.

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 2, Column 9.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RL).

M - A matrix interference was present. Reported value or quantitation limit may be an estimate due to matrix spike below the lower control limit or above the upper control limit.

R - Reported value or quantitation limit is rejected due to Internal Standard Area less than lower control limit or calibration verification % difference greater than the control limit.

J - Results are estimated and the data are valid for limited purposes. These results are qualitatively acceptable, but quantitatively unreliable.

Shaded block identifies samples with analyte(s) in excess of NYSDEC TAGM 4046 Recommended Cleanup Objectives.

TABLE 3B
SVOCs - C&D LANDFILL CONFIRMATION SAMPLING RESULTS SIDEWALL SOILS - (mg/kg)*

| ANALYTE | S-01 | S-02 | S-03 | S-04 | S-05 | S-06 | S-07B sample duplicate | S-07A | S-08 | S-09 | S-10 | S-11 | S-12 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|-----------------------------|-------|-------|-------|-------|---------|------|------------------------------|-------|------|---------|------|-------|------|--|
| Acenaphthene | ND | ND | ND | ND | 705 F | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Acenaphthylene | ND | 38 | ND | ND | 424 F | ND | ND | ND | ND | ND | ND | ND | ND | 41.0 |
| Anthracene | ND | 37 | ND | ND | 2260 F | ND | 80 F | ND | ND | 110 F | ND | ND | ND | 50.0 |
| Benzoic Acid | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.7 |
| Benzo(a)anthracene | 243 F | 164 F | 144 F | 58 F | 8,948 | 49 F | 398 F | 55 F | ND | 940 F | 41 F | 137 F | 59 F | 0.224 or MDL |
| Benzo(b)fluoranthene | ND R | 211 F | 214 R | 76 F | 7,849 | 77 F | 394 R | 72 R | ND | 1,590 R | 58 F | 171 F | 65 F | 1.1 |
| Benzo(k)fluoranthene | ND R | 153 F | 168 R | 47 F | 6,536 | 48 F | 373 R | 52 R | ND | 830 R | ND | 148 F | 44 F | 1.1 |
| Benzo(g,h)perylene | ND R | 93 F | ND R | ND | 2,120 | ND | 107 R | ND | ND | 251 R | ND | ND | 31 F | 50.0 |
| Benzo(a)pyrene | ND R | 234 F | 168 R | 60 F | 7,046 | 58 F | 357 R | 53 R | ND | 1,040 R | 43 F | 133 F | 63 F | 0.061 or MDL |
| Bis(2-ethylhexyl) phthalate | ND | ND | ND | ND | ND | 85 F | 138 F | 59 F | ND | 1070 F | 66 F | 91 F | 76 F | 50.0 |
| Carbazole | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| Chrysene | 257 F | 169 F | 181 F | 66 F | 8,070 | 56 F | 355 F | 56 F | ND | 959 F | 45 F | 150 F | 58 F | 0.400 |
| Dibenzo(a,h)anthracene | ND | ND | ND R | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.2 |
| Fluoranthene | ND | 318 F | 307 F | 150 F | 20,000 | 89 F | 711 F | 99 F | ND | 1,550 | 74 F | 242 F | 97 F | 50.0 |
| Fluorene | 480 F | ND | ND | ND | 1,110 F | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Indeno(1,2,3-cd)pyrene | ND R | 98 F | ND | ND | ND | ND | 113 R | ND | ND | 224 R | ND | ND | ND | 3.2 |
| Naphthalene | ND | ND | ND M | ND | ND | ND | ND | ND M | ND | ND | ND | ND | ND | 13.0 |
| 2-Methylnaphthalene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 36.4 |
| Phenanthrene | 374 F | 135 F | 180 F | 99 F | 8,390 | ND | 267 F | ND | ND | 278 F | ND | 115 F | 37 F | 50.0 |
| Pyrene | 580 F | 245 F | 353 F | 109 F | 27,000 | 79 F | 740 F | 86 F | ND | 1,820 | 66 F | 238 F | 89 F | 50.0 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil sample.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 2, Column 9.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RL).

M - A matrix interference was present. Reported value or quantitation limit may be an estimate due to matrix spike below the lower control limit or above the upper control limit.

R - Reported value or quantitation limit is rejected due to Internal Standard Area less than lower control limit or calibration verification % difference greater than the control limit.

J - Results are estimated and the data are valid for limited purposes. These results are qualitatively acceptable, but quantitatively unreliable.

Shaded block identifies samples with analyte(s) in excess of NYSDEC TAGM 4046 Recommended Cleanup Objectives.

TABLE 3C
SVOCs - C&D LANDFILL CONFIRMATION SAMPLING RESULTS TEST PIT SOILS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | P-01 | P-02 | P-03 | P-04 | P-05A | P-05B sample duplicate | P-06 | P-07 | P-08 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|-----------------------------|-------------------------------|-------------|------|---------|---------|---------|---------|------------------------|---------|------|---------|---|
| Acenaphthene | | 0.083 | ND | ND | 0.408 | ND | ND | ND | ND | ND | ND | 50.0 |
| Acenaphthylene | | 0.083 | ND | ND | ND | 0.097 F | ND | ND | ND | ND | ND | 41.0 |
| Anthracene | | 0.083 | ND | ND | 0.666 | 0.129 F | ND | ND R | ND | ND | ND | 50.0 |
| Benzoic Acid | | 0.33 | ND | ND | ND | ND | ND | ND R | ND | ND | ND | 2.7 |
| Benzo(a)anthracene | | 0.083 | ND | 0.100 F | 2.11 | 0.542 F | 0.052 F | 0.203 F | 0.559 F | ND | 0.037 F | 0.224 or MDL |
| Benzo(b)fluoranthene | | 0.083 | ND | 0.135 F | 2.40 R | 0.691 R | 0.082 R | 0.268 F | 0.989 R | ND | 0.044 F | 1.1 |
| Benzo(k)fluoranthene | | 0.083 | ND | 0.098 F | 1.71 R | 0.533 R | 0.073 R | 0.175 F | 0.651 R | ND | ND | 1.1 |
| Benzo(g,h,i)perylene | | 0.083 | ND | 0.049 F | 0.545 | 0.167 R | ND R | 0.093 F | ND R | ND | 0.038 F | 50.0 |
| Benzo(a)pyrene | | 0.083 | ND | 0.120 F | 1.85 R | 0.588 R | ND R | 0.175 F | 0.692 R | ND | ND | 0.061 or MDL |
| Bis(2-ethylhexyl) phthalate | | 0.083 | ND | ND | ND | ND | 0.052 F | 0.097 F | ND | ND | 0.052 F | 50.0 |
| Chrysene | | 0.083 | ND | 0.111 F | 1.89 | 0.559 F | 0.060 | 0.210 F | 0.653 F | ND | ND | 0.400 |
| Dibenzofuran | | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | | 0.083 | ND | ND | 0.119 F | ND | ND | ND | ND | ND | ND | 6.2 |
| Fluoranthene | | 0.083 | ND | 0.194 F | 4.41 | 1.23 | 0.079 F | 0.323 J | 1.04 F | ND | 0.068 F | 50.0 |
| Fluorene | | 0.083 | ND | ND | 0.250 F | 0.055 F | ND | ND | ND | ND | ND | 50.0 |
| Indeno(1,2,3-cd)pyrene | | 0.083 | ND | 0.049 F | 0.559 R | 0.184 R | ND R | 0.086 F | ND | ND | ND | 3.2 |
| Naphthalene | | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13.0 |
| 2-Methylnaphthalene | | 0.083 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 36.4 |
| Phenanthrene | | 0.083 | ND | 0.098 F | 2.76 | 0.552 F | ND | 0.164 J | 0.377 F | ND | ND | 50.0 |
| Pyrene | | 0.083 | ND | 0.165 F | 4.75 | 0.958 | 0.094 F | 0.354 F | 1.36 | ND | 0.050 F | 50.0 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 2, Column 9.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RDL).

TABLE 4A
TAL METALS - C&D LANDFILL CONFIRMATION SAMPLING RESULTS BOTTOM SOILS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | B-01 | B-02 | B-03 | B-04 | B-05 | B-06 | B-07 | B-08 | B-09A | B-09B sample replicate | B-10 | B-11 | B-12 | B-13 | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|------------------|-------------------------------|-------------|--------|----------|--------|--------|--------|--------|---------|--------|----------|------------------------|---------|--------|---------|--------|--|
| Silver, Total | | 0.103 | ND | 0.16 F | ND | ND | ND | ND | 0.12 F | ND | ND | ND | ND | ND | ND | ND | N/A |
| Aluminum, Total | | 3.2 | 3,320 | 2,940 M | 1,840 | 3,420 | 1,690 | 2,360 | 2,390 | 1,890 | 3,490 | 2,650 J | 2,290 | 2,480 | 3,190 | 3,850 | 30,200 |
| Arsenic, Total | | 0.35 | 1.7 | 1.5 | 0.92 F | 1.4 | 1.2 | 0.94 F | 1.4 | 0.94 F | 1.7 | 1.2 | 1.5 | 1.4 | 1.5 | 1.7 | 7.5 |
| Barium, Total | | 0.014 | 98.4 | 12.7 | 8.5 | 18 | 12 | 10.7 | 14.9 | 11.1 | 19.1 J | 10.7 J | 12.2 | 9.2 | 15.8 | 294 | 300 (TAGM) |
| Beryllium, Total | | 0.008 | 0.14 F | 0.18 F | 0.11 F | 0.19 F | 0.10 F | 0.10 F | 0.12 F | 0.10 F | 0.19 F | 0.14 F | 0.16 F | 0.18 F | 0.20 F | 0.20 F | 1.3 |
| Calcium, Total | | 2.8 | 41,000 | 15,500 M | 10,200 | 19,602 | 4,840 | 4,890 | 22,600 | 4,000 | 15,900 J | 10,200 | 19,100 | 3,520 | 8,170 | 9,160 | 30,200 |
| Cadmium, Total | | 0.032 | 0.11 | ND | ND | ND | ND | ND | 0.044 F | ND | 0.038 F | ND | 0.055 F | ND | 0.046 F | 0.15 | 1.3 |
| Cobalt, Total | | 0.043 | 2.4 F | 2.5 F | 1.7 F | 2.4 F | 1.8 F | 2.2 J | 2.3 F | 1.9 F | 2.7 F | 2.0 F | 2.1 F | 2.3 F | 2.3 F | 2.5 F | 9.2 |
| Chromium, Total | | 0.06 | 7.2 F | 5.2 F | 3.0 F | 4.9 F | 3.2 F | 3.8 F | 3.7 F | 3.3 F | 4.6 F | 3.5 F | 4.0 F | 3.4 F | 4.3 F | 6.5 F | 19.5 |
| Copper, Total | | 0.145 | 7.5 | 4.5 | 1.8 F | 2.9 | 1.6 F | 2.2 | 3.2 | 1.8 F | 3.6 | 2.6 J | 4.4 | 2.6 | 3.5 | 5.5 | 44.1 |
| Iron, Total | | 1.12 | 6,290 | 6,350 | 4,130 | 6,790 | 5,130 | 5,420 | 6,370 | 4,940 | 7,710 | 5,360 | 5,270 | 6,640 | 6,410 | 7,400 | 36,700 |
| Mercury, Total | | 0.018 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.02 F | 0.65 |
| Potassium, Total | | 5.9 | 603 | 883 | 418 F | 514 F | 327 F | 484 F | 544 F | 371 F | 641 | 483 F | 487 F | 413 F | 614 F | 651 | 929 |
| Magnesium, Total | | 4.57 | 5,060 | 5,550 | 2,530 | 1,060 | 2,620 | 2,900 | 7,280 | 2,340 | 4,460 | 6,290 | 8,430 | 2,880 | 2,290 | 2,550 | 3,340 |
| Manganese, Total | | 0.007 | 121 | 185 | 57.3 | 99.6 | 61.2 | 73.6 | 191 | 66.3 | 249 J | 152 J | 160 | 113 | 148 | 132 | 474 |
| Sodium, Total | | 0.859 | 50.5 | 50.5 | 45.6 | 56.4 | 53.3 | 56.7 | 49 | 44.8 | 40.4 | 47.6 | 82.2 | 51.4 | 31 | 43 | 520 |
| Nickel, Total | | 0.104 | 6.0 | 4.5 | 2.3 | 3.7 | 2 | 2.8 | 6 | 2.6 | 3.7 | 3.3 | 3 | 3.9 | 3.8 | 4.8 | 12.6 |
| Lead, Total | | 0.331 | 24.4 | 3.9 | 1.4 | 1.8 | 0.6 | 0.8 | 2.4 | 0.8 | 7.1 | 2.6 | 4.5 | 0.8 | 7.3 | 14.3 | 79.4 |
| Ammimony, Total | | 0.45 | 0.50 F | ND | ND | 0.9 | ND | ND | 0.5 | 0.6 | 0.5 | 0.7 | ND | ND | 0.4 | ND | 12.6 |
| Selenium, Total | | 0.256 | 0.61 F | 0.47 F | ND | 0.83 F | 0.34 F | ND | 0.50 F | 0.59 F | 0.78 F | 0.66 F | 0.52 F | 0.76 F | 0.75 F | 2.7 | 2.0 (TAGM) |
| Thallium, Total | | 0.037 | ND | ND | 0.17 F | ND | 0.17 F | 0.16 F | 0.31 F | ND | 0.18 F | 0.18 F | ND | ND | ND | ND | N/A |
| Vanadium, Total | | 0.228 | 9.4 | 6.9 | 5.4 | 8.9 | 6.9 | 6.9 | 5.6 | 6.3 | 9.8 J | 5.6 | 6.3 | 5.8 | 9.3 | 9.9 | 90.2 |
| Zinc, Total | | 0.465 | 29.4 | 13.8 | 7.2 | 14.5 | 14.3 | 8.3 | 16.4 | 14.9 | 14 | 18.4 | 12.1 | 10.7 | 16.7 | 73.9 | 63.4 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 4, Column 5.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RL).

TABLE 4B
TAL METALS - C&D LANDFILL CONFIRMATION SAMPLING RESULTS SIDEWALL SOILS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | S-01 | S-02 | S-03 | S-04 | S-05 | S-06 | S-07A | S-07B sample duplicate | S-08 | S-09 | S-10 | S-11 | S-12 | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|------------------|-------------------------------|-------------|---------|--------|---------|---------|--------|--------|--------|------------------------|---------|---------|---------|---------|--------|--|
| | | | | | | | | | | | | | | | | |
| Silver, Total | | 0.103 | ND | ND | ND | ND | ND | ND | ND | 0.1 | ND | ND | ND | ND | ND | N/A |
| Aluminum, Total | | 3.2 | 2,860 | 2,840 | 3,710 | 3,220 | 3,300 | 3,400 | 2,840 | 3,020 | 1,250 | 3,670 | 3,050 | 2,860 | 3,020 | 30,200 |
| Arsenic, Total | | 0.35 | 1.5 | 1.1 | 1.7 | 1.6 | 1.4 | 1.4 | 1 | 1.1 | 0.9 | 1.8 | 1.5 | 1.8 | 1.7 | 7.5 |
| Barium, Total | | 0.014 | 23.5 | 9.3 | 21.4 | 35.7 | 28.2 | 20.4 | 13.3 | 14.3 | 5.6 | 29.7 | 16.9 | 20.8 | 17.5 | 300 (TAGM) |
| Beryllium, Total | | 0.008 | 0.13 F | 0.13 F | 0.17 F | 0.16 F | 0.17 F | 0.13 F | 0.13 F | 0.16 F | 0.077 F | 0.17 F | 0.16 F | 0.14 F | 0.18 F | 1.3 |
| Calcium, Total | | 2.8 | 29,700 | 7,220 | 17,000 | 3,180 | 16,800 | 16,100 | 2,900 | 3,540 | 3,650 | 13,500 | 2,450 | 15,100 | 8,520 | 30,200 |
| Cadmium, Total | | 0.032 | 0.075 F | ND | 0.09 | 0.31 | 0.47 | 0.053 | ND | ND | ND | 0.086 F | 0.059 F | 0.104 F | 0.23 | 1.3 |
| Cobalt, Total | | 0.043 | 2.3 F | 1.8 F | 2.3 F | 1.8 F | 2.6 F | 2.3 F | 1.8 F | 1.8 F | 1.3 F | 2.4 F | 2 F | 2.2 F | 2.4 F | 9.2 |
| Chromium, Total | | 0.06 | 3.9 F | 3.5 F | 5.1 F | 8.6 F | 4.9 F | 5.7 F | 4.0 F | 3.9 F | 1.7 F | 5.6 F | 4.5 F | 7.3 F | 5.3 F | 19.5 |
| Copper, Total | | 0.145 | 5.5 | 3.9 | 4.8 | 4.2 | 4.6 | 4.5 | 3 | 3.1 | 1.4 | 8.8 | 3.3 | 4.3 | 4.8 | 44.1 |
| Iron, Total | | 1.12 | 5,070 | 4,310 | 5,660 | 5,740 | 5,990 | 5,710 | 4,860 | 4,680 | 2,970 | 6,650 | 6,040 | 6,250 | 7,310 | 36,700 |
| Mercury, Total | | 0.018 | ND | 0.02 | 0.036 F | 0.039 F | ND | ND | ND | ND | ND | 0.022 F | ND | 0.023 F | ND | 0.65 |
| Potassium, Total | | 5.9 | 462 F | 276 F | 510 F | 246 F | 600 F | 645 | 362 F | 382 F | 247 F | 513 F | 356 F | 557 F | 558 F | 929 |
| Magnesium, Total | | 4.57 | 1,820 | 1,150 | 1,530 | 1,210 | 3,850 | 2,420 | 1,020 | 966 | 2,130 | 3,040 | 922 | 2,120 | 3,080 | 3340 |
| Manganese, Total | | 0.007 | 304 | 65.6 | 90.9 | 71.8 | 172 | 96.9 | 61.5 | 63.1 | 71.4 | 138 | 65.8 | 87.6 | 149 | 474 |
| Sodium, Total | | 0.859 | 36.8 | 35.4 | 35.7 | 26.1 | 48.4 | 70.5 | 26.4 | 40.8 | 26.5 | 46.8 | 30.8 | 44.2 | 14.5 | 520 |
| Nickel, Total | | 0.104 | 4.2 | 2.7 | 3.7 | 4.8 | 4.2 | 4 | 3.3 | 3.7 | 2.1 | 5.5 | 3.8 | 3.7 | 3.9 | 12.6 |
| Lead, Total | | 0.331 | 16 | 11.1 | 21.7 | 35.9 | 10.6 | 7.5 | 13.3 | 15.8 | 0.44 F | 23.4 | 13.9 | 29.5 | 7.3 | 79.4 |
| Antimony, Total | | 0.45 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 12.6 |
| Selenium, Total | | 0.256 | 1.2 | 0.50 F | 1.03 F | 0.64 F | 0.71 F | 0.58 F | 0.57 F | 0.68 F | ND | 1.7 | 0.68 F | 0.76 F | 0.96 F | 2.0 (TAGM) |
| Thallium, Total | | 0.037 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | N/A |
| Vanadium, Total | | 0.228 | 17.1 | 5.5 | 9 | 10.2 | 8.4 | 8.2 | 11.4 | 11.3 | 2.7 | 11.2 | 12.8 | 11.2 | 8.5 | 90.2 |
| Zinc, Total | | 0.465 | 31.6 | 21.4 | 23.4 | 26.7 | 23.6 | 18.3 | 25.3 | 24.1 | 6.1 | 41.1 | 24.6 | 26.7 | 17.4 | 63.4 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 4, Column 5.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RDL).

M - A matrix interference was present. Reported value or quantitation limit may be an estimate due to matrix spike below the lower control limit or above the upper control limit.

R - Reported value or quantitation limit is rejected due to Internal Standard Area less than lower control limit or calibration verification % difference greater than the control limit.

TABLE 4C

TAL METALS - C&D LANDFILL CONFIRMATION SAMPLING RESULTS TEST PIT SOILS -(mg/kg)*

| ANALYTE | SAMPLE LOCATION* (sample no.) | MDL (mg/kg) | P-01 | P-02 | P-03 | P-04 | P-05A | P-05B sample duplicate | P-06 | P-07 | P-08 | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|------------------|-------------------------------|-------------|--------|---------|--------|--------|---------|------------------------|---------|--------|---------|--|
| Silver, Total | | 0.103 | ND | ND | ND | ND | 0.11 F | ND | ND | ND | ND | N/A |
| Aluminum, Total | | 3.2 | 2,500 | 3,590 | 2,710 | 2,920 | 2,590 | 2,900 | 3,890 | 2,020 | 1,910 | 30,200 |
| Arsenic, Total | | 0.35 | 1.03 F | 1.9 | 1.4 | 1.8 | 1.1 | 1.2 | 2 | 1.3 | 1.3 | 7.5 |
| Barium, Total | | 0.014 | 13.4 | 23.5 | 16 | 14.5 | 49.4 | 57.7 | 39.9 | 10.7 | 8.8 | 300 (TAGM) |
| Beryllium, Total | | 0.008 | 0.15 F | 0.19 F | 0.15 F | 0.16 F | 0.13 F | 0.12 F | 0.17 F | 0.12 F | 0.13 F | 1.3 |
| Calcium, Total | | 2.8 | 3,580 | 12,200 | 3,590 | 5,370 | 21,000 | 18,300 | 28,900 | 28,900 | 15,900 | 30,200 |
| Cadmium | | 0.032 | ND | 0.090 F | 0.29 | ND | 0.10 F | 0.11 F | 0.13 | ND | ND | 1.3 |
| Cobalt, Total | | 0.043 | 2.1 F | 2.6 F | 2.2 F | 2.1 F | 1.8 F | 1.8 F | 2.3 F | 1.8 F | 1.7 F | 9.2 |
| Chromium, Total | | 0.06 | 3.5 F | 5.8 F | 4.9 F | 4.3 F | 4.4 F | 5.4 F | 6.8 F | 2.9 F | 2.8 F | 19.5 |
| Copper, Total | | 0.145 | 3.2 | 6.7 | 4.9 | 4.0 | 3.0 | 3.0 | 6.5 | 3.0 | 2.7 | 44.1 |
| Iron, Total | | 1.12 | 4,720 | 6,600 | 8,490 | 5,820 | 5,000 | 4,890 | 6,110 | 4,220 | 4,300 | 36,700 |
| Mercury, Total | | 0.018 | ND | ND | ND | ND | ND | ND | 0.030 F | ND | 0.023 F | 0.65 |
| Potassium, Total | | 5.9 | 509 F | 599 F | 362 F | 452 F | 490 F | 528 F | 511 F | 566 F | 564 F | 929 |
| Magnesium, Total | | 4.57 | 1,370 | 2,240 | 1,060 | 1,670 | 3,618 J | 2,660 J | 2,900 | 4,900 | 7,470 | 3,340 |
| Manganese, Total | | 0.007 | 71.5 | 130 | 78.7 | 84.5 | 136 J | 106 J | 99.3 | 185 | 163 | 474 |
| Sodium, Total | | 0.859 | 48 | 63 | 25.8 | 34.5 | 49.3 | 49.7 | 50.7 | 47.8 | 39 | 520 |
| Nickel, Total | | 0.104 | 2.9 | 4.6 | 3.6 | 3.6 | 5.2 J | 3.4 J | 4.5 | 2.8 | 2.6 | 12.6 |
| Lead, Total | | 0.331 | 4.5 M | 14.2 | 20.8 | 5.9 | 19.6 | 18.8 | 17.1 | 2 | 1.6 | 79.4 |
| Antimony, Total | | 0.45 | ND M | ND | ND | ND | ND | ND | 0.64 F | ND | ND | 12.6 |
| Selenium, Total | | 0.256 | 0.81 F | 1.9 | 2.9 | 0.71 F | ND | 0.58 F | 0.90 F | ND | ND | 2.0 (TAGM) |
| Thallium, Total | | 0.037 | ND | ND | ND | ND | ND | ND | ND | ND | ND | N/A |
| Vanadium, Total | | 0.228 | 5.9 | 9.5 | 9 | 7.2 | 6.8 | 7.1 | 11.9 | 4.3 | 4.5 | 90.2 |
| Zinc, Total | | 0.465 | 10.6 | 31.1 | 87.8 | 15.6 | 14.8 | 16.1 | 28.8 | 8.3 | 7.4 | 63.4 |

ND: Not Detected; MDL: Minimum Detection Level

* Refer to Figure 4, Sample Location Map of C&D Landfill, for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 2, Column 9.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the lower limit of detection (i.e., results above the MDL but below the RDL).

M - A matrix interference was present. Reported value or quantitation limit may be an estimate due to matrix spike below the lower control limit or above the upper control limit.

R - Reported value or quantitation limit is rejected due to Internal Standard Area less than lower control limit or calibration verification % difference greater than the control limit.

TABLE 5
VOCs - STUMP DUMP CONFIRMATION SAMPLING RESULTS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION (Sample No.) | MDL (mg/kg) | A1-01 | A1-02 | A1-02B sample duplicate | A1-03 | A2-01 | A2-02 | A3-01 | A3-02 | A3-03 | A3-04 | A3-05 | A3-06A | A3-06B sample duplicate | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|--------------------------|------------------------------|-------------|-------|--------|-------------------------|-------|--------|-------|--------|--------|--------|-------|-------|--------|-------------------------|---|
| Acetone | | 0.0025 | ND | ND | 0.0046 | ND | 0.0156 | ND | 0.0034 | 0.0096 | 0.0206 | ND | ND | ND | ND | 0.2 |
| Benzene | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.06 |
| 2-Butanone | | 0.0025 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3 |
| Chloroform | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3 |
| Chloroethane | | 0.00009 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.9 |
| 1,2 Dichloroethane | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 |
| 1,2 Dichloroethene | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3 |
| Ethylbenzene | | 0.0004 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.5 |
| Methylene Chloride | | 0.0008 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 |
| Tetrachloroethene | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.4 |
| Toluene | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.5 |
| Styrene | | 0.00045 | ND | 0.0018 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| Vinyl Chloride | | 0.0009 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2 |
| Xylene (total) | | 0.00045 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.2 |
| 1,3,5 - Trimethylbenzene | | 0.00045 | ND | 0.0024 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| Naphthalene | | 0.0004 | ND | 0.0007 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13 |

ND: Not Detected above MDL, MDL: Minimum Detection Level, CRDL: Contract Required Detection Limit, A1: Area 1, A2: Area 2, A3: Area 3

* Refer to Figure 7, Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil sample analyte concentrations.

ND Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM cleanup objective, Appendix A, Table 1, Column 9.

TABLE 6
SYOCS - STUMP DUMP CONFIRMATION SAMPLING RESULTS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION (Sample No.) | MDL (mg/kg) | A1-01 ¹ | A1-01A ² resample | A1-01B ² resample | A1-02 | A1-02B sample duplicate | A1-03 | A2-01 | A2-02 | A3-01 | A3-02 | A3-03 | A3-04 | A3-05 | A3-06A | A3-06B sample duplicate | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|-----------------------------|------------------------------|-------------|--------------------|------------------------------|------------------------------|-------|-------------------------|---------|-------|-------|-------|---------|-------|-------|-------|--------|-------------------------|--|
| | | | | | | | | | | | | | | | | | | |
| Acenaphthene | | 0.042 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 |
| Acenaphthylene | | 0.042 | 0.190 F | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 41 |
| Anthracene | | 0.035 | 0.108 F | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 |
| Benzoic Acid | | 0.02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.7 |
| Benzo(a)anthracene | | 0.029 | 0.836 F | ND | ND | ND | ND | ND | ND | ND | ND | 0.031 F | ND | ND | ND | ND | ND | 0.224 or MDL |
| Benzo(b)fluoranthene | | 0.028 | 1.3 R | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 |
| Benzo(k)fluoranthene | | 0.043 | 0.803 R | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 |
| Benzo(g,h,i)perylene | | 0.037 | 0.130 R | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 |
| Benzo(a)pyrene | | 0.026 | 0.836 R | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.061 or MDL |
| Bis(2-ethylhexyl) phthalate | | 0.039 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 |
| Chrysene | | 0.041 | 1.11 F | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.4 |
| Dibenz(a,h)anthracene | | 0.039 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | | 0.043 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.2 |
| Fluoranthene | | 0.028 | 1.73 | ND | ND | ND | ND | 0.032 F | ND | ND | ND | 0.058 F | ND | ND | ND | ND | ND | 50 |
| Fluorene | | 0.044 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 |
| Indeno(1,2,3-cd)pyrene | | 0.036 | 0.194 R | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.2 |
| Naphthalene | | 0.034 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13 |
| Phenanthrene | | 0.042 | 0.883 F | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 |
| Pyrene | | 0.03 | 1.98 | ND | ND | ND | ND | ND | ND | ND | ND | 0.046 F | ND | ND | ND | ND | ND | 50 |

ND: Not Detected above MDL; MDL: Minimum Detection Level; CODL: Contract Required Detection Limit, A1: Area 1, A2: Area 2, A3: Area 3

F: - Result is above the MDL but below the CRDL and is subject to poor precision.

R - QAPP Q/VQC criteria (typically calibration) were not met and result may not be usable.

* Refer to Figure 7, Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil samples.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM cleanup objective, Appendix A, Table 2, Column 9.

¹MDL values for A1-01 are double value listed due to a 2 fold dilution.

² Samples were collected immediately adjacent to Location A-01 at a later date.

TABLE 7
TAL METALS - STUMP DUMP CONFIRMATION SAMPLING RESULTS - (mg/kg)*

| ANALYTE | SAMPLE LOCATION (Sample No.) | MDL (mg/kg) | TAL METALS - STUMP DUMP CONFIRMATION SAMPLING RESULTS - (mg/kg)* | | | | | | | | | | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) | | | |
|------------------|------------------------------|-------------|--|-------------|-------------------------|-------------|---------|---------|---------|---------|---------|---------|--|---------|---------|-------------------------|
| | | | A1-01 | A1-02 | A1-02B sample duplicate | A1-03 | A2-01 | A2-02 | A3-03 | A3-01 | A3-02 | A3-03 | | A3-04 | A3-05 | A3-06B sample duplicate |
| Aluminum, Total | | 3.23 | 4.880 | 3.620 | 3.860 | 2.860 | 3.430 | 3.330 | 1.800 | 2.240 | 2.080 | 2.660 | 3.460 | 5.180 J | 3.610 J | 30,200 |
| Antimony, Total | | 0.45 | ND M | ND | 0.712 F | ND | ND | 0.567 F | ND | ND | ND | ND | 0.551 F | ND | ND | 12.6 |
| Arsenic, Total | | 0.35 | 1.76 | 1.92 | 1.68 | 1.23 | 1.54 | 1.21 | 1.49 | 1.54 | 1.21 | 1.49 | 1.36 | 1.99 | 1.54 | 7.5 |
| Barium, Total | | 0.01 | 19.2 M | 15.9 | 14 | 10.7 | 13.3 | 12.5 | 7.65 | 13.4 | 7.75 | 9.54 | 19.5 | 17.4 J | 11.9 J | 300 (TAGM) |
| Beryllium, Total | | 0.01 | 0.198 | 0.218 F | 0.200 F | 0.186 F | 0.148 F | 0.165 F | 0.120 F | 0.227 F | 0.130 F | 0.148 F | 0.201 F | 0.283 F | 0.205 F | 1.3 |
| Cadmium | | 0.03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.057 F | ND | ND | 1.3 |
| Calcium, Total | | 2.83 | 1.720 M | 1.510 | 902 J | 1.740 | 792 | 1.240 | 961 | 934 | 1.230 | 1.440 | 1.180 | 1.650 | 1.430 | 30,200 |
| Chromium, Total | | 0.06 | 7.34 F | 6.68 F | 5.55 F | 6.57 F | 4.32 F | 5.08 F | 2.87 F | 3.47 F | 3.68 F | 4.79 F | 4.49 F | 7.15 F | 5.16 F | 19.5 |
| Cobalt, Total | | 0.04 | 2.02 F | 2.24 F | 2.19 F | 1.91 F | 1.65 F | 1.88 F | 1.59 F | 2.75 F | 1.58 F | 2.16 F | 2.20 F | 2.70 F | 2.14 F | 9.2 |
| Copper, Total | | 0.15 | 4.41 | 2.34 | 1.28 F | 1.92 F | 1.36 F | 1.77 F | 1.60 F | 1.81 F | 1.87 F | 2.79 | 2.36 | 4.15 | 2.71 | 44.1 |
| Iron, Total | | 1.11 | 7.780 | 7.950 | 10.600 F | 9.830 | 5.720 | 6.780 | 4.260 | 4.950 | 5.100 | 6.190 | 5.200 | 8.560 F | 6,770 J | 36,700 |
| Lead, Total | | 0.33 | 12.3 M F | 4.3 | 2.2 | 2 | 1.61 | 3.51 | 1.49 | 1.42 | 1.31 | 1.75 | 2.61 | 2.04 | 2.01 | 79.4 |
| Magnesium, Total | | 0.02 | 757 M | 946 | 574 | 864 | 639 | 732 | 641 | 1,160 | 731 | 908 | 1,080 | 1,307 | 1,140 | 3340 |
| Manganese, Total | | 4.65 | 81.7 | 137 | 169 J | 73.4 | 63.8 | 97.9 | 57.8 | 98 | 36 | 37.5 | 84 | 155 F | 95.8 J | 474 |
| Mercury, Total | | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.65 |
| Nickel, Total | | 0.1 | 3.06 | 3.23 | 2.15 | 2.53 F | 2.58 | 2.81 | 1.91 F | 2.73 | 5.31 | 4.84 | 3.51 | 4.8 | 3.6 | 12.6 |
| Potassium, Total | | 5.96 | 370 F | 468 F | 213 F | 500 F | 335 F | 399 F | 375 F | 493 F | 436 F | 578 F | 713 F | 928 F | 629 F | 929 |
| Selenium, Total | | 0.26 | 2.91 | 2.06 | 2.63 J | 2.23 | 1.41 | 1.74 | 0.992 F | 1.29 | 1.15 | 1.25 | 1.2 | 1.98 | 1.7 | 2.0 (TAGM) |
| | | 0.26 | 1.58** | 1.47** | 1.37** | 0.775 F** | | | | | | | | | | |
| | | 0.26 | 1.97** | 1.15 F** | 1.75** | 1.25 F** | | | | | | | | | | |
| Silver, Total | | 0.1 | 0.134 F | 0.139 F | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | N/A |
| Sodium, Total | | 0.87 | 36.6 | 51.1 | 26.9 | 56 | 35.6 | 37 | 31.3 | 41.3 | 43.8 | 53.5 | 43.1 | 62.6 J | 47.6 J | 520 |
| Thallium, Total | | 0.06 | 0.166 F | 0.165 F | 0.148 | 0.162 F | 0.134 | 0.121 F | 0.110 F | 0.123 F | 0.115 F | 0.128 F | 0.110 F | 0.150 F | 0.155 F | N/A |
| Vanadium, Total | | 0.23 | 12.1 | 11.7 | 13.4 | 13.4 | 8.41 | 9.94 | 5.55 | 6.35 | 7.18 | 8.87 | 6.78 | 12.4 J | 9.27 J | 90.2 |
| Zinc, Total | | 0.47 | 30.5 F | 11.2 | 9.53 | 8.75 | 7.16 | 10.5 | 6.44 | 7.88 | 6.77 | 8.48 | 12.3 | 14.5 J | 11.1 J | 63.4 |

ND: Not Detected above MDL, MDL: Minimum Detection Level, CRDL: Contract Required Detection Limit, A1: Area 1, A2: Area 2, A3: Area 3
 F: - Result is above the MDL but below the CRDL and is subject to poor precision.
 J - Estimated value

M - Result is associated with an observed matrix effect and is an estimate.

* Refer to Figure 7. Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil samples.

** Reanalysis of selenium from same sample jar.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM cleanup objective, Appendix A, Table 4, Column 5.

TABLE 8A
 SVOCs - C&D LANDFILL CHARACTERIZATION SAMPLE RESULTS SOIL STOCKPILES (mg/kg)*

| SAMPLE LOCATION (sample no.) | SP-01 | SP-02 | SP-03 | SP-04 | SP-05 | SP-06 | SP-07 | SP-08 | SP-09 | SP-10 | SP-11 | SP-12 | NYSDEC TAGM SOIL CLEAN-UP OBJECTIVE (mg/kg) |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| ANALYTE | | | | | | | | | | | | | |
| Acenaphthene | ND | ND | 0.17 | ND | ND | ND | ND | ND | ND | 0.192 | ND | ND | 50 |
| Acenaphthylene | ND | 0.234 | ND | ND | 0.099 | ND | 0.144 | 0.087 | ND | ND | ND | ND | 41 |
| Anthracene | ND | 0.472 | 0.519 | 0.509 | ND | 0.147 | 0.221 | 0.163 | 0.121 | 0.997 | ND | 0.343 | 50 |
| Benz(a)anthracene | 0.266 | 3.2 | 3.0 | 1.62 | 0.187 | 0.565 | 1.84 | 1.25 | 0.534 | 3.14 | 0.367 | 2.29 | 0.224 or MDL |
| Benz(b)fluoranthene | 0.271 | 2.61 | 3.46 | 1.96 | 0.301 | 0.506 | 2.06 | 1.44 | 0.707 | 3.82 | 0.493 | 3.51 | 1.1 |
| Benz(k)fluoranthene | 0.25 | 2.35 | 3.44 | 1.26 | 0.185 | 0.432 | 1.37 | 0.946 | 0.543 | 2.11 | 0.417 | 1.27 | 1.1 |
| Benz(g,h)perylene | 0.118 | 0.561 | 0.634 | 0.435 | ND | 0.274 | 0.421 | 0.243 | 0.129 | 0.767 | ND | ND | 50 |
| Benz(a)pyrene | 0.281 | 2.69 | 2.89 | 1.56 | 0.225 | 0.514 | 1.7 | 1.11 | 0.456 | 2.56 | 0.404 | 1.22 | 0.061 or MDL |
| Bis(2-ethylhexyl) phthalate | ND | 0.247 | 0.21 | 0.278 | 0.155 | ND | 0.09 | 0.119 | 0.102 | 0.191 | 0.159 | 0.308 | 50 |
| Carbazole | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- |
| Chrysene | 0.278 | 2.86 | 2.97 | 1.49 | 0.217 | 0.572 | 1.77 | 1.2 | 0.443 | 2.78 | 0.382 | 1.37 | 0.4 |
| Dibenz(a,h)anthracene | ND | 0.231 | 0.242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.2 |
| Fluoranthene | 0.506 | 5.25 | 5.45 | 3.5 | 0.324 | 1.06 | 3.2 | 2.6 | 0.968 | 7.025 | 0.641 | 2.43 | 50 |
| Phenanthrene | ND | ND | 0.181 | ND | ND | ND | ND | ND | ND | 0.307 | ND | ND | 50 |
| Indeno(1,2,3-cd)pyrene | 0.115 | 0.583 | 0.666 | 0.438 | 0.072 | 0.24 | 0.439 | 0.249 | 0.146 | 0.789 | ND | 0.268 | 3.2 |
| Naphthalene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13 |
| 2-Methylnaphthalene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 36.4 |
| Phenanthrene | 0.292 | 1.75 | 0.21 | 1.97 | 0.126 | 0.408 | 0.727 | 0.448 | 0.373 | 3.2 | 0.272 | 1.24 | 50 |
| Pyrene | 0.434 | 5.67 | 5.71 | 2.92 | 0.3 | 0.77 | 3.26 | 2.058 | 0.886 | 5.24 | 0.616 | 2.25 | 50 |

ND: Not Detected

* Refer to Figure 5, Soil Stockpile Sample Location Map of the C&D Landfill for specific location of soil sample.

Shaded black and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM cleanup objective

TABLE 8B
 TAL METALS - C&D LANDFILL CHARACTERIZATION SAMPLE RESULTS SOIL STOCKPILES - (mg/kg)

| SAMPLE LOCATION (sample no.) | MDL (mg/kg) | SP-01 | SP-02 | SP-03 | SP-04 | SP-05 | SP-06 | SP-07 | SP-08 | SP-09 | SP-10 | SP-11 | SP-12 | NYSDEC TAGM Soil Clean-up Objectives (mg/kg) |
|---------------------------------|----------------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|--------|--------|--|
| ANALYTE | | | | | | | | | | | | | | |
| Silver, Total | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2 | N/A |
| Aluminum, Total | 3460 | 3700 | 3520 | 3670 | 3670 | 2710 | 1840 | 3400 | 3430 | 3760 | 2990 | 3590 | 3670 | 30,200 |
| Arsenic, Total | 2 | 2.1 | 1.7 | 1.7 | 1.7 | 1.7 | 0.6 | 1.7 | 1.6 | 1.8 | 1.4 | 1.6 | 2.5 | 3.4 |
| Barium, Total | 369 | 33.2 | 31.6 | 73.3 | 50.4 | 50.4 | 12.8 | 39.1 | 18.3 | 29.2 | 17.7 | 20.2 | 22.3 | 300 (TAGM) |
| Beryllium, Total | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.08 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 1.3 |
| Calcium, Total | 15,300 | 12,800 | 16,500 | 16,200 | 31,800 | 8,430 | 8,430 | 1,100 | 14,300 | 3,540 | 8,540 | 24,700 | 61,800 | 30,200 |
| Cadmium | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 1.3 |
| Cobalt, Total | 2.6 | 2.9 | 2.4 | 2.4 | 1.9 | 1.9 | 2.6 | 2.3 | 2.3 | 2.6 | 2.3 | 2.6 | 2.6 | 9.2 |
| Chromium, Total | 6.8 | 7 | 6.2 | 8 | 6.6 | 6.6 | 6.3 | 7.3 | 6.1 | 10 | 5.7 | 7.7 | 7.1 | 19.5 |
| Copper, Total | 5.7 | 8.8 | 6.5 | 5.2 | 6.5 | 6.5 | 3 | 4.8 | 4.4 | 7.8 | 4.3 | 5.8 | 5.8 | 44.1 |
| Iron, Total | 8,390 | 8,100 | 6,890 | 6,990 | 5,710 | 7,900 | 7,900 | 6,920 | 6,820 | 7,240 | 6,590 | 7,770 | 9,390 | 36,700 |
| Mercury, Total | ND | 0.03 | 0.03 | 0.02 | 0.05 | 0.05 | 0.05 | ND | ND | ND | 0.021 | ND | 0.027 | 0.65 |
| Potassium, Total | 618 | 624 | 638 | 6077 | 463 | 639 | 330 | 639 | 602 | 779 | 476 | 622 | 903 | 929 |
| Magnesium, Total | 3,120 | 2,320 | 3,260 | 2,270 | 5,380 | 1,100 | 1,100 | 1,920 | 1,690 | 2,530 | 1,960 | 2,350 | 4,460 | 3,340 |
| Manganese, Total | 128 | 160 | 125 | 110 | 118 | 189 | 189 | 97.5 | 98.5 | 137 | 100 | 105 | 147 | 474 |
| Sodium, Total | 48.1 | 44.5 | 44.3 | 43.8 | 50.5 | 22.4 | 22.4 | 41.6 | 40.5 | 48.8 | 37.5 | 45.5 | 54.9 | 520 |
| Nickel, Total | 6.8 | 5.21 | 4.3 | 4.52 | 3.8 | 4.32 | 3.87 | 3.87 | 3.8 | 7 | 3.9 | 4.5 | 4.8 | 12.6 |
| Lead, Total | 18.2 | 47.7 | 19.3 | 22.4 | 35.8 | 15.2 | 15.2 | 15.6 | 14.3 | 20.6 | 16 | 21.9 | 16.5 | 79.4 |
| Antimony, Total | 1.1 | 0.6 | ND | 0.06 | 0.6 | 0.6 | ND | ND | ND | ND | ND | ND | ND | 12.6 |
| Selenium, Total | 1.1 | 1.9 | 0.5 | 0.06 | 1.2 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 2.0 (TAGM) |
| Thallium, Total | ND | ND | 0.2 | ND | ND | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | N/A |
| Vanadium, Total | 12.9 | 11.7 | 11.6 | 11.4 | 10.5 | 5.7 | 11 | 11 | 10.9 | 11.6 | 12.3 | 16.1 | 3.6 | 90.2 |
| Zinc, Total | 27.3 | 45.3 | 29.9 | 29.8 | 43.9 | 25.2 | 25.2 | 24.6 | 24.2 | 29.7 | 23.5 | 25.4 | 23.7 | 63.4 |

ND: Not Detected; MDL: Minimum Detection Limit

* Refer to Figure 5, Soil Stockpile Sample Location Map of the C&D Landfill for specific location of soil samples.

■ Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM cleanup objective

TABLE 9A
SVOCs - STUMP DUMP CHARACTERIZATION SAMPLING RESULTS SOIL STOCKPILES - (mg/kg)*

| ANALYTE | SAMPLE LOCATION (Sample No.) | MDL (mg/kg) | SP 01 | SP 02 | SP 03 | SP 04 | SP 05 | SP 06 | SP 07 | SP 08 | SP 09 | SP 10 | SP 11 | SP 12 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|-----------------------------|------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| | | | AREA 1 | AREA 1 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 1 | |
| Acenaphthene | | 0.840 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Acenaphthylene | | 0.840 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 41.0 |
| Anthracene | | 0.070 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.30 | ND | ND | 50.0 |
| Benzoic Acid | | 0.040 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.7 |
| Benzo(a)anthracene | | 0.030 | ND | ND | 0.25 | 0.17 | 1.26 | 0.59 | 0.28 | 0.86 | 0.30 | 1.24 | ND | ND | 0.224 or MDL |
| Benzo(b)fluoranthene | | 0.056 | ND | ND | 0.45 | 0.38 | 1.41 | 0.71 | 0.33 | 1.64 | 0.34 | 1.78 | ND | ND | 1.1 |
| Benzo(k)fluoranthene | | 0.085 | ND | ND | 0.33 | 0.32 | 1.07 | 0.55 | 0.25 | 0.67 | 0.27 | 0.99 | ND | ND | 1.1 |
| Benzo(g,h,i)perylene | | 0.074 | ND | ND | ND | ND | 0.26 | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Benzo(a)pyrene | | 0.052 | ND | ND | 0.33 | 0.29 | 1.18 | 0.52 | 0.24 | 1.11 | 0.29 | 1.11 | ND | ND | 0.061 or MDL |
| Bis(2-ethylhexyl) phthalate | | 0.078 | ND | ND | 0.24 | 0.13 | 0.18 | 0.21 | 0.11 | 0.11 | 0.28 | 0.22 | ND | ND | 50.0 |
| Butylbenzophthalate | | 0.068 | ND | ND | ND | 0.19 | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Chrysene | | 0.082 | ND | ND | 0.24 | 0.20 | 1.11 | 0.43 | 0.35 | 0.84 | 0.27 | 1.18 | ND | ND | 0.4 |
| Dibenz(a,h)anthracene | | 0.078 | ND | ND | ND | ND | 0.25 | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | | 0.086 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.2 |
| Fluoranthene | | 0.029 | ND | ND | 0.40 | 0.33 | 3.03 | 1.06 | 0.61 | 1.11 | 0.66 | 3.29 | ND | ND | 50.0 |
| Fluorene | | 0.088 | ND | ND | ND | ND | 0.14 | 0.05 | ND | ND | ND | 0.12 | ND | ND | 50.0 |
| Indeno(1,2,3-cd)pyrene | | 0.072 | ND | ND | ND | ND | 0.36 | ND | ND | ND | ND | ND | ND | ND | 3.2 |
| Naphthalene | | 0.068 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13.0 |
| Phenanthrene | | 0.086 | ND | ND | 0.12 | 0.10 | 1.36 | 0.45 | ND | 0.31 | 0.25 | 1.23 | ND | ND | 50.0 |
| Pyrene | | 0.031 | ND | ND | 0.37 | 0.30 | 2.26 | 1.25 | 0.62 | 1.30 | 0.49 | 3.23 | ND | ND | 50.0 |

ND: Not Detected, MDL: Minimum Detection Level. A1: Area 1, A2: Area 2, and A3: Area 3.

* Refer to Figure 6, Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil sample analyte concentrations.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 2, Column 9.

TABLE 9A (cont'd)
SVOCs - STUMP DUMP CHARACTERIZATION SAMPLING RESULTS SOIL STOCKPILES - (mg/kg)*

| ANALYTE | SAMPLE LOCATION (Sample No.) | MDL (mg/kg) | SP 13 | SP 14 | SP 15 | SP 16 | SP 17 | SP 18 | SP 19 | SP 20 | SP 20B duplicate sample | SP 21 | SP 22 | SP 23 | NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|-----------------------------|------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|--------|--------|--------|---|
| | | | AREA 1 | AREA 1 | AREA 1 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 3 | AREA 2 | |
| Arenaphthene | | 0.084 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Arenaphthylene | | 0.084 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 41.0 |
| Anthracene | | 0.070 | 0.0396 | ND | ND | 0.182 | ND | 0.122 | ND | ND | 0.491 | 0.321 | 0.154 | ND | 50.0 |
| Benzoic Acid | | 0.040 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.7 |
| Benzo(a)anthracene | | 0.030 | 0.985 | ND | ND | 0.467 | 0.094 | 0.405 | 0.059 | 0.216 | 0.333 | 0.292 | 0.413 | ND | 0.224 or MDL |
| Benzo(b)fluoranthene | | 0.056 | 0.139 | ND | ND | ND | 0.157 | 0.469 | 0.08 | 0.271 | 0.389 | 0.927 | 0.434 | ND | 1.1 |
| Benzo(k)fluoranthene | | 0.085 | 0.0964 | ND | ND | ND | 0.134 | 0.339 | ND | 0.18 | 0.227 | 0.675 | 0.293 | ND | 1.1 |
| Benzo(e,h)perylene | | 0.074 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.084 | ND | ND | 50.0 |
| Benzo(g)pyrene | | 0.052 | 0.0411 | ND | ND | ND | 0.125 | 0.322 | 0.054 | 0.196 | 0.223 | 0.785 | 0.312 | ND | 0.061 or MDL |
| Bis(2-ethylhexyl) phthalate | | 0.078 | ND | ND | ND | 0.298 | 0.061 | 0.236 | 0.059 | ND | 0.06 | 0.107 | 0.064 | ND | 50.0 |
| Butylbenzophthalate | | 0.068 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| Chrysene | | 0.082 | 0.0749 | ND | ND | 0.45 | 0.098 | 0.37 | 0.073 | 0.234 | 0.407 | 0.816 | 0.369 | ND | 0.4 |
| Dibenz(a,h)anthracene | | 0.078 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 or MDL |
| Dibenzofuran | | 0.086 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.2 |
| Fluoranthene | | 0.029 | 0.197 | 0.26 | 0.0347 | 1 | 0.14 | 0.812 | 0.122 | 0.448 | 0.508 | 2 | 0.913 | 0.035 | 50.0 |
| Fluorene | | 0.088 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.159 | 0.063 | ND | 50.0 |
| Indeno(1,2,3-cd)pyrene | | 0.072 | ND | ND | ND | ND | ND | 0.087 | ND | ND | ND | 0.171 | 0.075 | ND | 3.2 |
| Naphthalene | | 0.068 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13.0 |
| Phenanthrene | | 0.086 | 0.129 | ND | ND | 0.299 | ND | 0.391 | ND | 0.163 | 0.14 | 1 | 0.534 | ND | 50.0 |
| Pyrene | | 0.031 | 0.151 | 0.198 | ND | 1 | 0.133 | 0.807 | 0.108 | 0.492 | 0.521 | 1 | 0.743 | ND | 50.0 |

ND: Not Detected, MDL: Minimum Detection Level. A1: Area 1, A2: Area 2, and A3: Area 3.

* Refer to Figure 6, Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil sample analyte concentrations.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 2, Column 9.

TABLE 9B
TAL METALS - STUMP DUMP CHARACTERIZATION SAMPLING RESULTS SOIL STOCKPILES - (mg/kg)*

| SAMPLE LOCATION (Sample No.) | MDL (mg/kg) | SP 01 | SP 02 | SP 02A duplicate sample | SP 03 | SP 04 | SP 05 | SP 06 | SP 07 | SP 08 | SP 09 | SP 10 | SP 11 | SP 12 | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|---------------------------------|----------------|--------|-------|-------------------------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|--------|--------|---------------|--|
| | | AREA | AREA | AREA | AREA | AREA | AREA | AREA | AREA | AREA | AREA | AREA | AREA | AREA | |
| Aluminum, Total | 4 | 2,120 | 2,210 | 2,270 | 2,740 | 2,760 | 2,320 | 2,280 | 2,390 | 2,590 | 2,340 | 1,720 | 2,510 | 3,580 | 30,200 |
| Antimony, Total | 0.52 | ND | ND | ND | 0.569 | 0.76 | 6.46 | ND | 0.693 | 0.538 | 0.494 | 0.507 | ND | 3.93 | 12.6 |
| Arsenic, Total | 0.45 | 1.2 | 0.978 | 1.18 | 1.39 | 1.66 | 1.59 | 1.27 | 1.72 | 3.7 | 1.96 | 1.3 | 1.29 | 1.96 | 7.5 |
| Barium, Total | 0.2 | 9.7 | 12.8 | 12.9 | 30 | 74.5 | 32.5 | 21.3 | 18.9 | 20 | 64.1 | 56 | 12.9 | 24.9 | 300 (TAGM) |
| Beryllium, Total | 0.02 | 0.133 | 0.127 | 0.125 | 0.198 | 0.169 | 0.125 | 0.12 | 0.152 | 0.146 | 0.25 | 0.0983 | 0.144 | 0.174 | 1.3 |
| Cadmium | 0.4 | ND | ND | ND | 0.158 | 0.177 | 0.167 | 0.231 | 0.176 | 0.146 | ND | 0.125 | ND | 0.379 | 1.3 |
| Calcium, Total | 3.4 | 1,110 | 888 | 856 | 8,630 | 10,500 | 12.1 | 6,780 | 8,130 | 6,840 | 5,440 | 6,020 | 1,060 | 14,700 | 30,200 |
| Chromium, Total | 0.08 | 4.36 | 3.76 | 3.6 | 6.54 | 4.55 | 6.41 | 7.15 | 6.74 | 4.57 | 4.81 | 9.8 | 3.73 | 6.52 | 19.5 |
| Cobalt, Total | 0.06 | 2.48 | 1.34 | 1.38 | 2.19 | 2 | 1.63 | 1.48 | 1.97 | 1.85 | 1.79 | 1.18 | 1.51 | 2.1 | 9.2 |
| Copper, Total | 0.2 | 2.18 | 1.04 | 1.16 | 8.29 | 5.18 | 9.58 | 5.97 | 10.1 | 6.63 | 4.39 | 5.83 | 1.67 | 6.93 | 44.1 |
| Iron, Total | 1.4 | 5,410 | 5,000 | 5,250 | 4,910 | 5,010 | 4,610 | 3,920 | 4,700 | 5,450 | 7,200 | 3,140 | 5,460 | 6,900 | 36,700 |
| Lead, Total | 0.4 | 1.6 | 1.57 | 1.71 | 26.5 | 14.9 | 29.5 | 27.5 | 29.2 | 18.9 | 12.7 | 15.1 | 2.64 | 17.4 | 79.4 |
| Magnesium, Total | 6 | 711 | 509 | 484 | 1,420 | 1,410 | 1,590 | 1,030 | 1,130 | 1,590 | 1,380 | 835 | 593 | 2,000 | 3,340 |
| Manganese, Total | 0.1 | 91.1 | 89.9 | 96.8 | 120 | 106 | 84.5 | 74.9 | 93.9 | 102 | 70.7 | 61.3 | 111 | 105 | 474 |
| Mercury, Total | 0.01 | 0.0441 | ND | ND | 0.0301 | 0.0209 | 0.0282 | 0.0217 | ND | 0.042 | 0.0214 | 0.051 | ND | 0.0362 | 0.65 |
| Nickel, Total | 0.2 | 3.03 | 1.88 | 1.89 | 5.34 | 3.68 | 3.68 | 3.14 | 5.37 | 3.79 | 2.85 | 2.45 | 2.16 | 3.96 | 12.6 |
| Potassium, Total | 8 | 125 | 150 | 132 | 360 | 327 | 324 | 257 | 284 | 379 | 270 | 245 | 147 | 684 | 929 |
| Selenium, Total | 0.4 | 1.4 | 1.4 | 1.44 | 2.84 | 2.29 | 2.65 | 2.11 | 2.75 | 2.53 | 4.77 | 1.96 | 1.65 | 3.36 | 2.0 (TAGM) |
| Silver, Total | 0.13 | ND | 0.127 | ND | 0.134 | ND | 0.176 | ND | 0.128 | ND | 0.127 | ND | 0.114 | ND | N/A |
| Sodium, Total | 1 | 16.8 | 11.4 | 12 | 29.1 | 25.6 | 25.2 | 22.7 | 20.6 | 37.7 | 18.4 | 20.2 | 12.7 | 50.9 | 520 |
| Thallium, Total | 0.07 | 0.142 | 0.193 | 0.157 | 0.131 | 0.0911 | 0.134 | 0.131 | 0.0698 | 0.127 | 0.103 | 0.0741 | 0.0103 | 0.199 | N/A |
| Vanadium, Total | 0.3 | 7.23 | 6.46 | 6.19 | 7.9 | 8.8 | 7.03 | 6.38 | 6.74 | 8.7 | 18.7 | 5.32 | 6.93 | 12.1 | 90.2 |
| Zinc, Total | 0.6 | 10.6 | 6.28 | 6.4 | 70.1 | 37.7 | 51.5 | 38.9 | 70.4 | 45.5 | 120 | 32.9 | 7.61 | 64.1 | 63.4 |
| | | | | | 55.3** | | | | 48.4** | | 27** | | | 56.6** | |

ND: Not Detected, MDL: Minimum Detection Level. A1: Area 1, A2: Area 2, and A3: Area 3.

* Refer to Figure 6, Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil samples.

** Retest from same sample bottle.

Shaded block and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 4, Column 5.

TABLE 9B (cont'd)
 TAL METALS - STUMP DUMP CHARACTERIZATION SAMPLING RESULTS SOIL STOCKPILES - (mg/kg)*

| ANALYTE | SAMPLE LOCATION (Sample No.) | MDL (µg/kg) | SP 13 | | SP 14 | | SP 14 re-sample | | SP 15 | | SP 16 | | SP 17 | | SP 18 | | SP 19 | | SP 20 | | SP 20B duplicate sample | | SP 21 | | SP 22 | | SP 23 | | Site Background or NYSDEC TAGM Soil Clean-up Objective (mg/kg) |
|------------------|------------------------------|-------------|--------|--------|-------|--------|-----------------|--------|-------|--------|--------|--------|--------|-------|------------|---|-------|---|-------|---|-------------------------|---|-------|---|-------|---|-------|---|--|
| | | | AREA | 1 | AREA | 1 | AREA | 1 | AREA | 1 | AREA | 3 | AREA | 3 | AREA | 3 | AREA | 3 | AREA | 3 | AREA | 3 | AREA | 3 | AREA | 3 | AREA | 3 | |
| Aluminum, Total | | 4 | 2,650 | 3,450 | 3,670 | 3,570 | 3,550 | 2,890 | 3,050 | 3,810 | 3,070 | 3,280 | 3,320 | 3,420 | 30,200 | | | | | | | | | | | | | | |
| Antimony, Total | | 0.52 | ND | 1.27 | ND | 1.38 | 0.549 | ND | 0.803 | 0.878 | 9.38 | ND | ND | 12.6 | | | | | | | | | | | | | | | |
| Arsenic, Total | | 0.45 | 1.19 | 1.73 | 1.45 | 4 | 1.62 | 1.59 | 1.55 | 1.58 | 1.5 | 1.27 | 7.5 | | | | | | | | | | | | | | | | |
| Barium, Total | | 0.2 | 13.7 | 22.3 | 13.5 | 67.4 | 16.3 | 34 | 16.3 | 245 | 15.7 | 17.5 | 17.3 | 14 | 300 (TAGM) | | | | | | | | | | | | | | |
| Beryllium, Total | | 0.02 | 0.16 | 0.171 | 0.175 | 0.174 | 0.181 | 0.167 | 0.16 | 0.181 | 0.167 | 0.196 | 0.233 | 0.17 | 1.3 | | | | | | | | | | | | | | |
| Cadmium | | 0.4 | 0.0329 | 0.19 | ND | 0.162 | 0.106 | 0.0668 | 0.371 | 0.0897 | 0.0497 | 0.0989 | ND | ND | 1.3 | | | | | | | | | | | | | | |
| Calcium, Total | | 3.4 | 3,020 | 11,800 | 1,280 | 12,000 | 2,990 | 4,840 | 6,370 | 22,900 | 4,980 | 4,800 | 4,040 | 1,160 | 30,200 | | | | | | | | | | | | | | |
| Chromium, Total | | 0.08 | 4.75 | 7.8 | 5.28 | 17.6 | 5.6 | 6.97 | 5.14 | 6.41 | 5.05 | 6.38 | 6.01 | 5.35 | 19.5 | | | | | | | | | | | | | | |
| Cobalt, Total | | 0.06 | 1.63 | 2.52 | 1.68 | 1.93 | 2.19 | 1.97 | 2.14 | 2.14 | 1.8 | 2.07 | 2.09 | 1.86 | 9.2 | | | | | | | | | | | | | | |
| Copper, Total | | 0.2 | 3.37 | 6.19 | 2.2 | 43.2 | 4.56 | 10.1 | 4.71 | 6.1 | 3.76 | 4.93 | 4.5 | 2.31 | 44.1 | | | | | | | | | | | | | | |
| Iron, Total | | 1.4 | 5,570 | 7,330 | 7,150 | 6,540 | 7,370 | 6,630 | 6,210 | 7,670 | 6,400 | 7,150 | 7,830 | 7,190 | 36,700 | | | | | | | | | | | | | | |
| Lead, Total | | 0.4 | 7.27 | 23 | 4.9 | 90.3 | 12.3 | 18 | 25.7 | 21.1 | 9.85 | 96.9 | 10.8 | 3.23 | 79.4 | | | | | | | | | | | | | | |
| Magnesium, Total | | 6 | 954 | 1,570 | 688 | 2,160 | 1,080 | 1,130 | 1,190 | 1,860 | 1,010 | 1,260 | 1,140 | 74.3 | 3340 | | | | | | | | | | | | | | |
| Manganese, Total | | 0.1 | 104 | 97.8 | 71.1 | 89.7 | 87.8 | 75.7 | 83.9 | 89.1 | 88.4 | 86.2 | 76 | 7.37 | 474 | | | | | | | | | | | | | | |
| Mercury, Total | | 0.01 | ND | 0.0276 | ND | 0.0208 | ND | 0.0225 | ND | ND | ND | 0.0222 | 0.0233 | ND | 0.65 | | | | | | | | | | | | | | |
| Nickel, Total | | 0.2 | 2.73 | 4.02 | 2.5 | 4.08 | 3.82 | 3.68 | 3.95 | 4.9 | 2.96 | 3.62 | 3.59 | 2.87 | 12.6 | | | | | | | | | | | | | | |
| Potassium, Total | | 8 | 386 | 613 | 351 | 653 | 522 | 508 | 500 | 637 | 544 | 672 | 648 | 375 | 929 | | | | | | | | | | | | | | |
| Selenium, Total | | 0.4 | 1.29 | 12.3 | 1.96 | 3.05 | 2.63 | 2.41 | 2.69 | 3.56 | 2.22 | 2.65 | 3.57 | 1.89 | 2.0 (TAGM) | | | | | | | | | | | | | | |
| Silver, Total | | 0.13 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.13 | ND | ND | N/A | | | | | | | | | | | | | | |
| Sodium, Total | | 1 | 33.2 | 50.9 | 32.1 | 50.7 | 43.4 | 39.7 | 39.4 | 56.5 | 45 | 58.7 | 52.8 | 35.1 | 520 | | | | | | | | | | | | | | |
| Thallium, Total | | 0.07 | 0.132 | 0.16 | 0.166 | 0.17 | 0.16 | 0.168 | 0.182 | 0.183 | 0.173 | 0.191 | 0.21 | 0.188 | N/A | | | | | | | | | | | | | | |
| Vanadium, Total | | 0.3 | 7.69 | 11.8 | 10.3 | 11.2 | 10.6 | 9.78 | 10.6 | 21.8 | 9.7 | 11.8 | 10.6 | 10.5 | 90.2 | | | | | | | | | | | | | | |
| Zinc, Total | | 0.6 | 21.1 | 391 | 13.4 | 62 | 30.2 | 45.5 | 38.3 | 47.4 | 28.6 | 35.6 | 57.1 | 11.4 | 63.4 | | | | | | | | | | | | | | |
| | | | 59** | | 42 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 215 | | | | | | | | | | | | | | | | | | | | | | | | |

ND: Not Detected, MDL: Minimum Detection Level. A1: Area 1, A2: Area 2, and A3: Area 3.

* Refer to Figure 6, Sample Location Map of Stump Dump Landfill (OTH-3505-2) for specific location of soil sample analyte concentrations;

** Retest from same sample bottle.

*** Shaded background and bold font identifies sample and associated constituent concentration that exceeds the NYSDEC TAGM 4046 cleanup objective, Appendix A, Table 4, Column 5.

1 The selenium average value and range is reported from ten tests from three sample bottles (1- grab, 2&3-split composite).

2 The zinc values are from a split composite sample, i.e. the same sample.

TABLE 10
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)
COMPONENTS OF ASPHALT PRODUCTS

Naphthalene
Fluorene
Carbazole
Anthracene/Phenanthrene
Fluoranthene
Pyrene
Benzo(a)anthracene
Chrysene/triphenylene
Benzofluoranthenes
Benzo(e)pyrene
Benzo(a)pyrene
Indeno(cd)pyrene
Benzo(ghi)perylene
Dibenzanthracenes
Coronene
Dibenzopyrenes

Source: Hazard Review Report "Health Effects of Occupational Exposure to Asphalt"
Prepared by U.S. Department of Health and Human Services, December, 2000,
DDHHS Publication No. 2001-110.

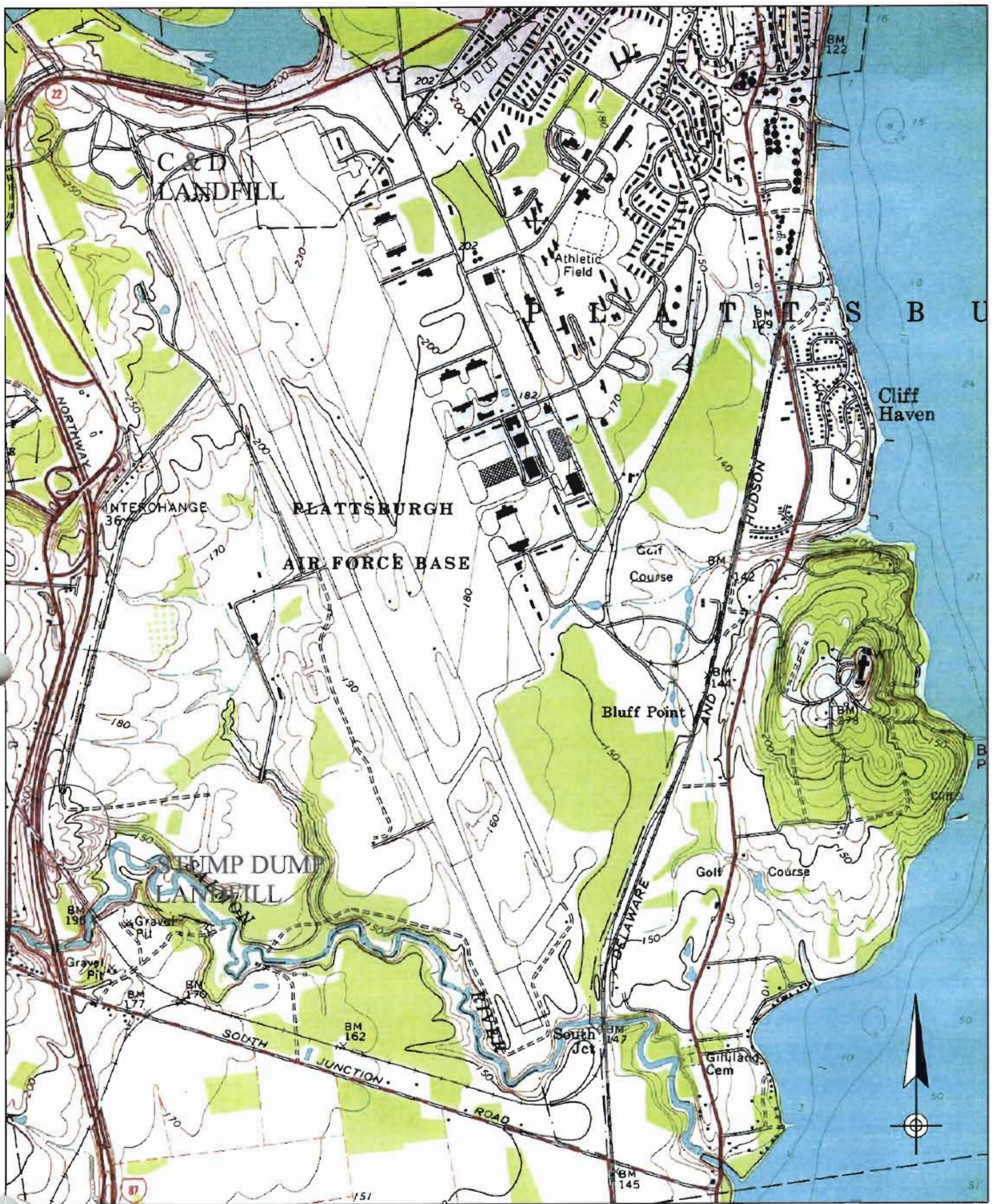


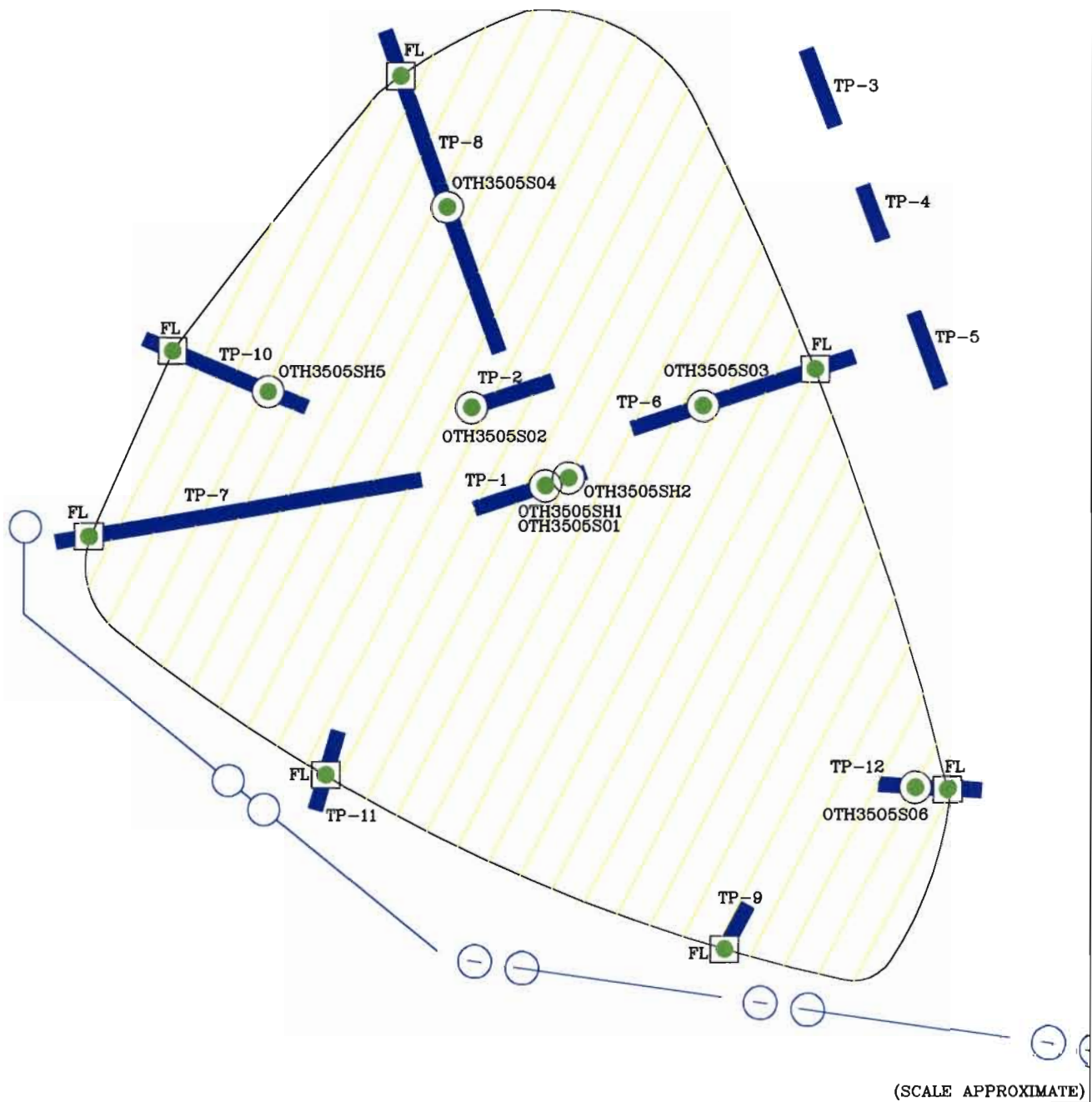
FIGURE 1

PLATTSBURGH AIR FORCE BASE
 QUADRANGLE LOCATION

PLATTSBURGH, NEW YORK





| | |
|--------------|----------|
| DATE: | 01/30/02 |
| DESIGNED BY: | |
| SCALE: | NO SCALE |
| JOB NO.: | 4521.141 |
| DWG. NO.: | FIGURE 1 |

Versar INC.
 2558 PEARL BUCK ROAD, SUITE 1
 BRISTOL, PA 19007
 (215) 788-7844



(SCALE APPROXIMATE)

LEGEND

| | |
|---|---|
|  | ESTIMATED EXTENT OF CONSTRUCTION DEBRIS/WASTE |
|  | TEST TRENCH LOCATION AND NUMBER |
|  | ANALYTICAL SAMPLE LOCATION |
|  | FILL LIMIT |

RCE. DRAFT SUPPLEMENTAL EVALUATION TO THE ENVIRONMENTAL
 PLINE SURVEY REPORT, MAY 2000

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 (215) 788-7844

FIGURE 2
 C & D LANDFILL
 FILL AREA

PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK

| | |
|--------------|-----------|
| DATE: | 01/25/02 |
| DESIGNED BY: | |
| SCALE: | 1" = 100' |
| JOB NO.: | 4521.141 |
| DWG. NO.: | FIGURE 2 |

WOODED AREA

AREA 1

AREA 2

AREA 3

DELAWARE & HUDSON R.R.

(SCALE APPROXIMATE)

LEGEND



ESTIMATED EXTENT OF CONSTRUCTION DEBRIS/WASTE



ESTIMATED EXTENT OF STUMPS AND VEGETATIVE DEBRIS



ESTIMATED EXTENT OF HOUSEHOLD DEBRIS

TP-1

TEST TRENCH LOCATION AND NUMBER

OTH3506S04



ANALYTICAL SAMPLE LOCATION

FL

FILL LIMIT



INTERSTATE 87

FIGURE 3

STUMP DUMP
FILL AREAS

PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK

DATE: 01/25/02

DESIGNED BY:

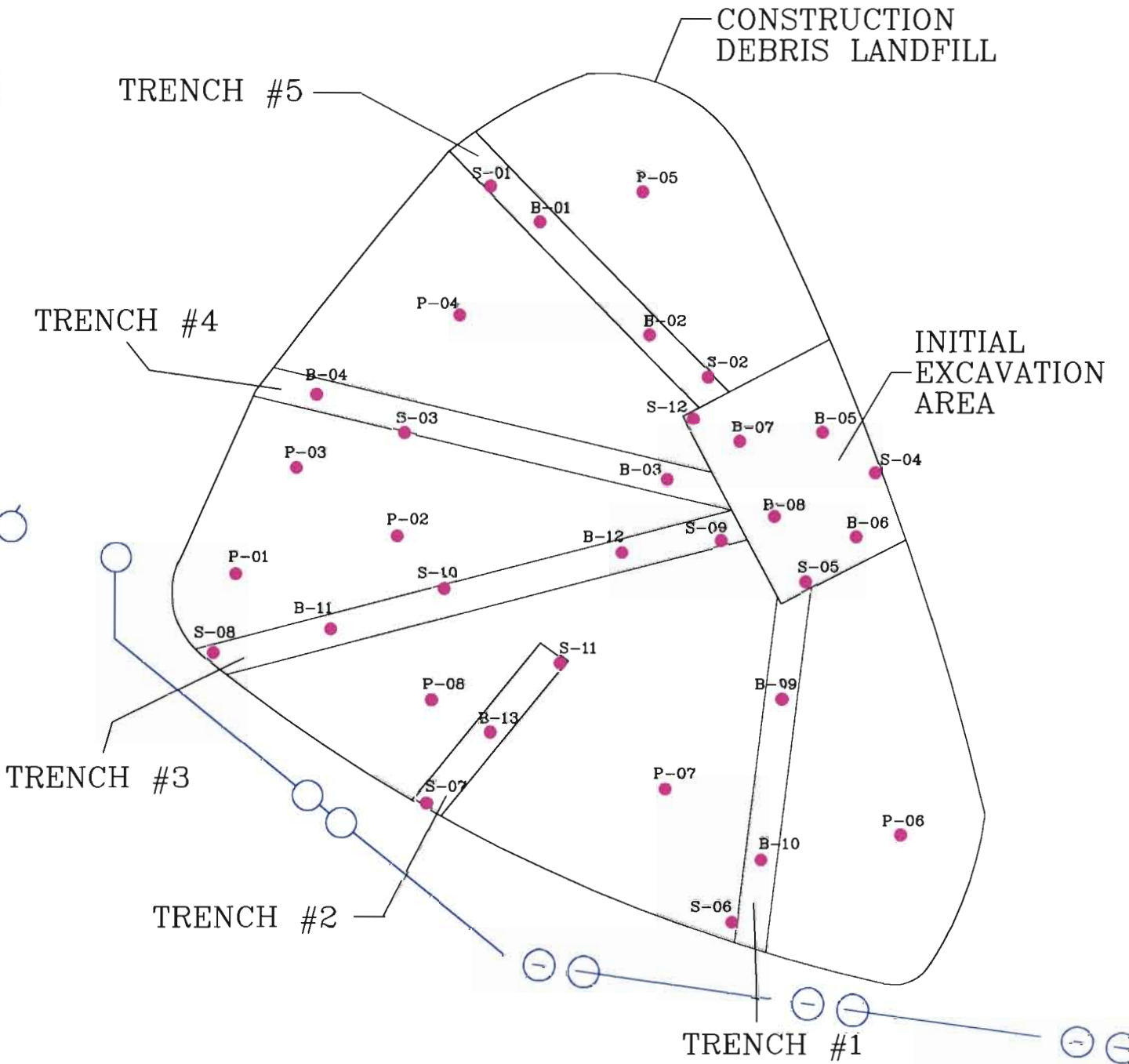
SCALE: 1" = 100'

JOB NO.: 4521.141

DWG. NO.: FIGURE 3

SOURCE: DRAFT SUPPLEMENTAL EVALUATION TO THE ENVIRONMENTAL BASELINE SURVEY REPORT, MAY 2000

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(SCALE APPROXIMATE)

LEGEND

- B = BOTTOM SAMPLE LOCATION
- S = SIDEWALL SAMPLE LOCATION
- P = BACKHOE PIT SAMPLE LOCATION

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FIGURE 4

C & D LANDFILL
 CONFIRMATION SAMPLE LOCATIONS

PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK

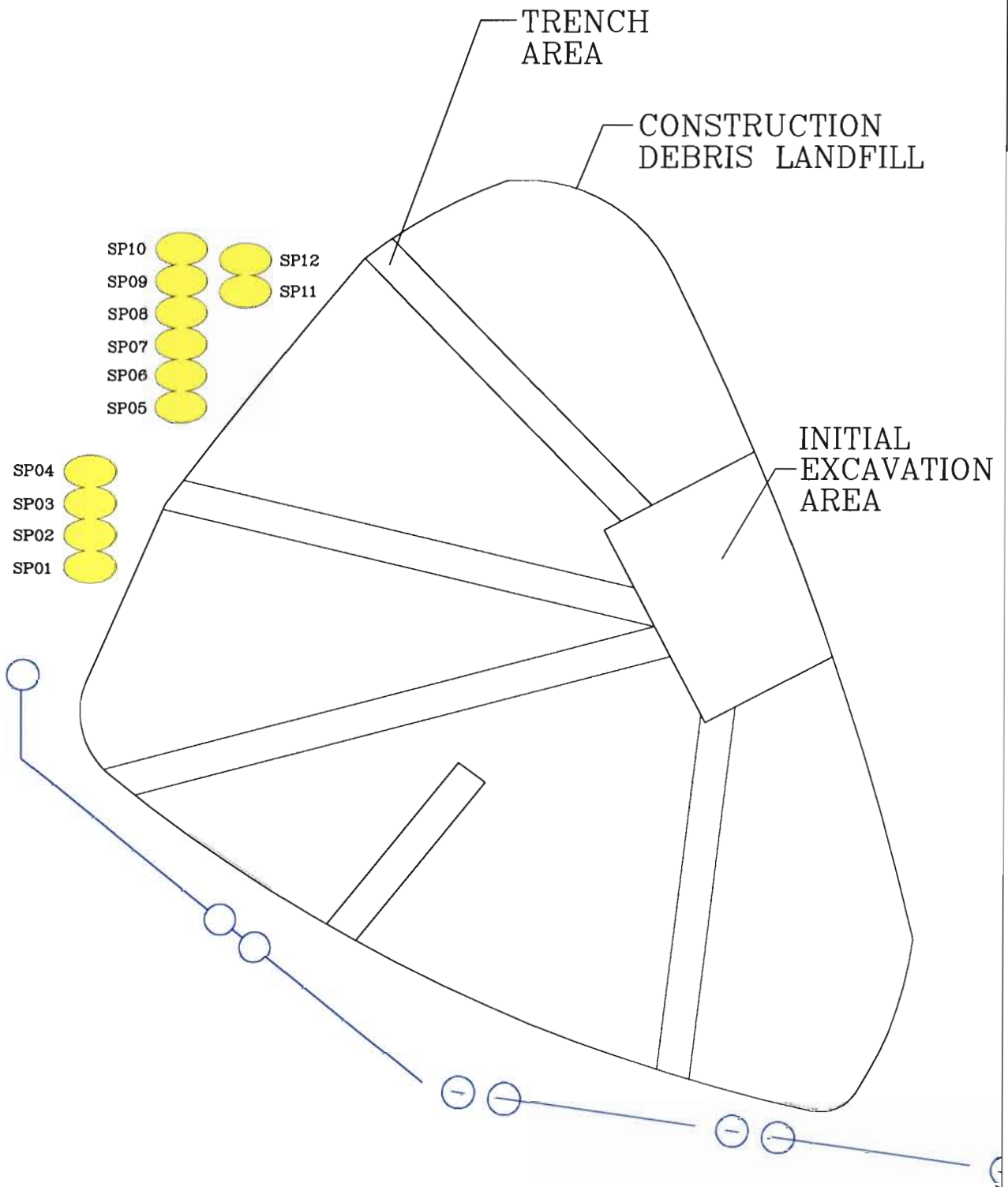
DATE: 05/16/02

DESIGNED BY:

SCALE: 1" = 100'

JOB NO.: 4521.141

DWG. NO.: FIGURE 4



(SCALE APPROXIMATE)

LEGEND

SP = SOIL STOCKPILE SAMPLE LOCATION

FIGURE 5

C & D LANDFILL
 CHARACTERIZATION SOIL STOCKPILE
 AND SAMPLE LOCATIONS

PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK

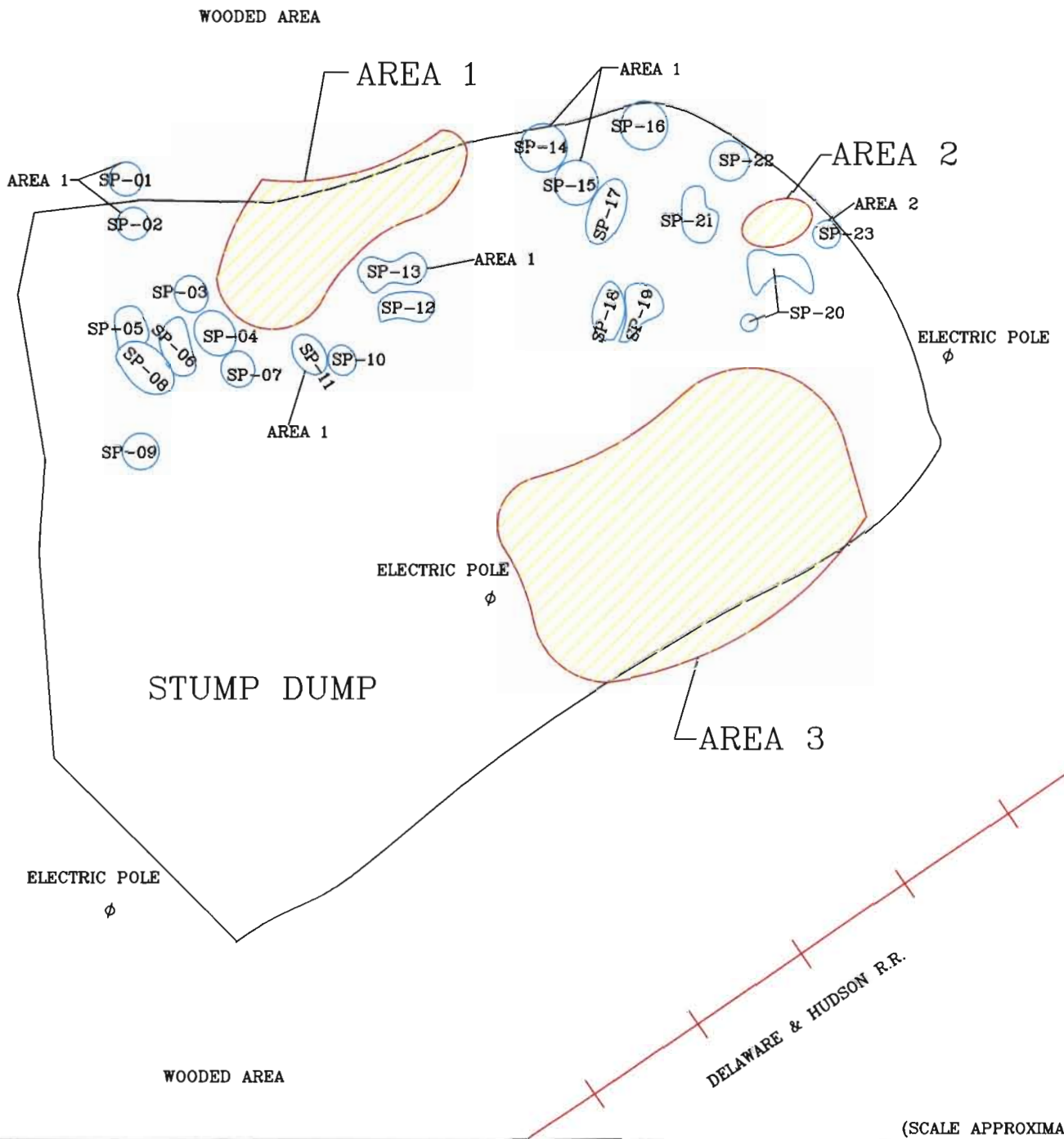
DATE: 01/25/02

DESIGNED BY:

SCALE: 1" = 100'

JOB NO.: 4521.141

DWG. NO.: FIGURE 5




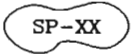
(SCALE APPROXIMATE)



INTERSTATE 87

OFFICE: DRAFT SUPPLEMENTAL EVALUATION TO THE ENVIRONMENTAL
 REMEDIATION SURVEY REPORT, MAY 2000

LEGEND

-  FINAL LIMITS OF EXCAVATION
-  SOIL STOCKPILE AND SAMPLE NUMBER

NOTE: UNLABELED SOIL STOCKPILES ARE FROM AREA 3

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 BRISTOL, PA 19007
 (215) 788-7844

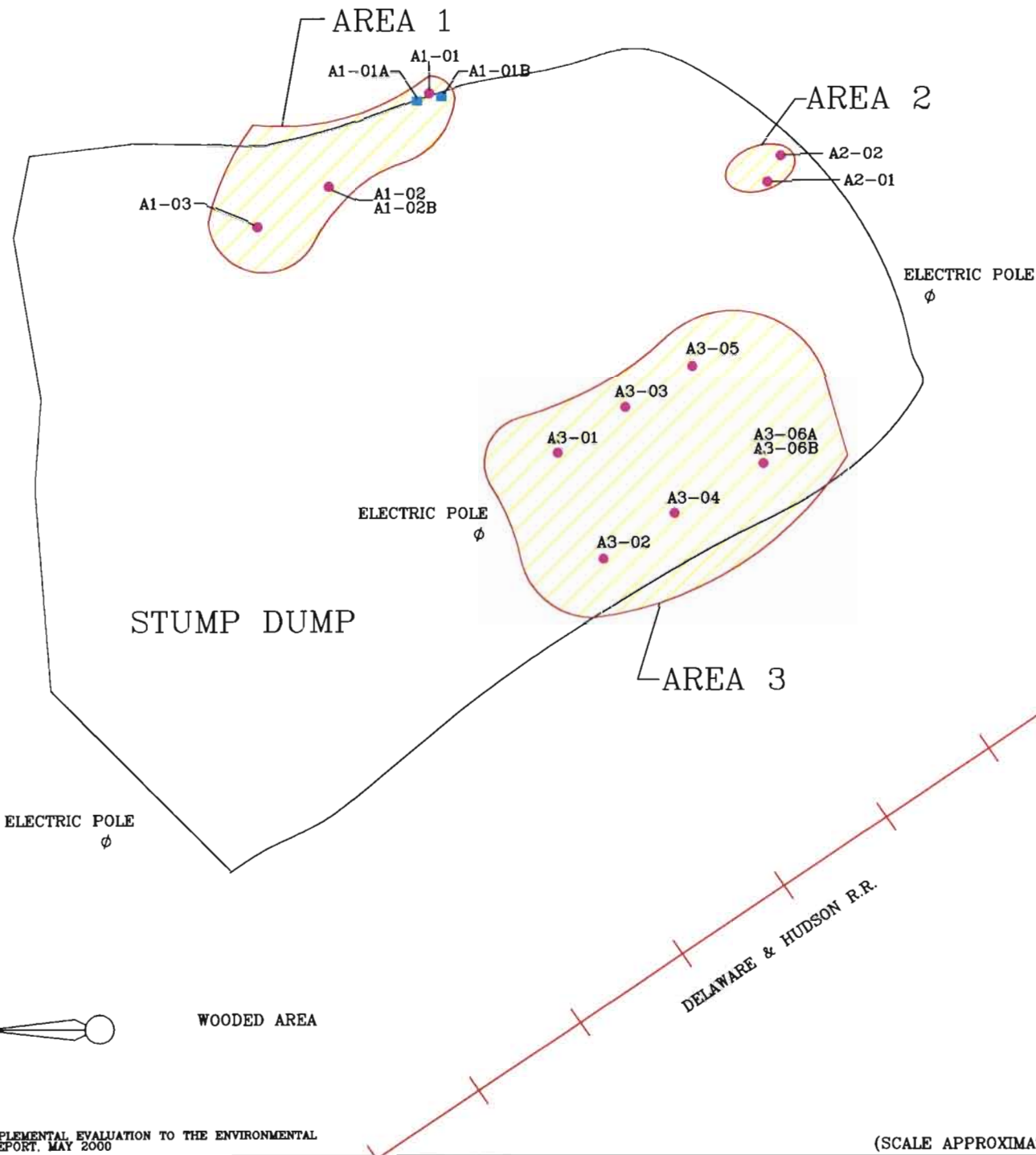
FIGURE 6
 STUMP DUMP
 CHARACTERIZATION SAMPLE LOCATIONS
 PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK

| | |
|--------------|-----------|
| DATE: | 01/25/02 |
| DESIGNED BY: | |
| SCALE: | 1" = 100' |
| JOB NO.: | 4521.141 |
| DWG. NO.: | FIGURE 6 |

WOODED AREA

AREA 1

AREA 2



SOURCE: DRAFT SUPPLEMENTAL EVALUATION TO THE ENVIRONMENTAL BASELINE SURVEY REPORT, MAY 2000

(SCALE APPROXIMATE)

NOTES:

NO ANALYTE EXCEEDANCES OF NYSDEC TAGM 4046, EXCEPT SAMPLE NO. A1-01

RESAMPLING OF A1-01A AND A1-01B SHOWED NO SVOCs ABOVE DETECTION LIMITS

LEGEND



FINAL LIMITS OF EXCAVATION



SAMPLE LOCATION AND NUMBER (7 MAY 2001)



SAMPLE LOCATION AND NUMBER (23 JUNE 2001)

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 BRISTOL, PA. 19007
 (215) 788-7844

FIGURE 7

STUMP DUMP

CONFIRMATION SAMPLE LOCATIONS

PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK

DATE: 01/25/02

DESIGNED BY:

SCALE: 1" = 100'

JOB NO.: 4521.141

DWG. NO.: FIGURE 7

Photography Log C&D Landfill and Stump Dump



1. C&D Landfill at beginning of excavation.



2. C&D Landfill. Tub Grinder chipping wood.



3. C&D Landfill. Field operations at the initial excavation area.

Transite Pipe



Asphalt Slabs

Concrete Slabs

4. C&D Landfill. Excavation of Trench #4



5. C&D Landfill. Trench #3



6. C&D Landfill. Loader staging soil piles.



7. C&D Landfill. Excavator turning dirt at western wedge



8. C&D Landfill. Excavator turning dirt at southern wedge.



9. C&D Landfill. Bulldozer grading.



10. Stump Dump. Excavation of Area 1.



11. Stump Dump. Concrete vault during excavation of Area 1.



12. Stump Dump. Excavator, Loader, and Shaker Screen during excavation of Area 2.



13. Stump Dump. Excavator, Loader, Shaker Screen and Bulldozer during excavation of Area 3



14. Stump Dump. Empty metal drums found in Area 3.



15. Stump Dump. Metal drums in containment area.



16. Stump Dump. Loader removing material and grading site.



17. Stump Dump. Loader loading soil to dump truck.



18. Versar screening soil with the PID.



19. C&D Landfill. Site restoration complete.



20. Stump Dump. Site restoration complete.

File



**DEPARTMENT OF THE AIR FORCE
AIR FORCE BASE CONVERSION AGENCY**

December 6, 2000

**MEMORANDUM FOR NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ATTN: MR. JAMES QUINN
Bureau of Eastern Remedial Action
50 Wolf Road
Albany NY 12233-7010**

**FROM: AFBCA/DA Plattsburgh
22 US Oval Suite 2200
Plattsburgh NY 12903**

SUBJECT: Confirmational Sampling at C&D Landfill (OTH-3505-1)

Attached for your records is our proposal concerning the subject landfill.

At the present time, over 2000 cubic yards have been excavated, and all indications are that this area can be closed as a non-regulated C&D landfill in accordance with 6NYCRR Part 360, and the project completed. Several items of concern were raised by the NYSDEC to VERSAR's proposed sampling plan that was faxed on November 29, 2000, and are addressed as follows.

- The samples to be analyzed for VOCs will be taken approximately 1-foot below the bottom or into the sidewall of the trenches in the locations shown in Figure 1.
- The unexcavated islands between the trenches will be bulldozed and all materials found which are not in compliance with the definition of C&D debris as stated in 6NYCRR Part 360 will be separated and removed. Before removal, however, the regulatory agencies will be consulted as to the nature and extent of said material. Additional sampling may be required.
- Prior to use as backfill material, the excavated, sifted, and staged soil piles will be sampled as outlined in the original work plan.

Due to the onset of winter weather, we are performing confirmational sampling on December 7 and 8, 2000. Any questions or comments can be directed to Steve Gagnier at (518) 563-2871, ext 14, or Joe Szot at (518) 563-2871, ext 26.

**MICHAEL D. SOREL, PE
Site Manager/BRAC Environmental Coordinator**

**Attachment:
Proposal, Nov 29, 2000 (4 cys)**

**cc:
USEPA (Mr. Robert Morse) (Atch under sep cover))**

Valley VS Sanitation

(518) 566-0453

P.O. Box 946 Peru, NY 12972

April 24, 2002

To: Versar

Attn: Brian Foley

Re: Attached please find the C&D exemption as per the D.E.C. regulations for our area. Please note subpart 360-7 section b which states that uncontaminated concrete and concrete products, asphalt pavement, brick, glass, soil and rock are exempt from requiring a permit. If you have any further questions you may contact Dan Sterroerge of the DEC at 897-1241.

Thank you.

CONSTRUCTION AND DEMOLITION
DEBRIS LANDFILLS

7.1

60-7

SUBPART 60-7

CONSTRUCTION AND DEMOLITION DEBRIS LANDFILLS

Section 60-7.1 Applicability, exemptions and definitions

- 60-7.2 Registration
- 60-7.3 C&D debris landfills three acres or less
- 60-7.4 C&D debris landfills greater than three acres
- 60-7.5 Operation requirements
- 60-7.6 Closure and post-closure criteria
- 60-7.7 Corrective measures

Section 60-7.1 Applicability, exemptions and definitions

a) Applicability. This Subpart regulates landfills (except those located in Nassau or Suffolk County) in which only construction and demolition (C&D) debris is placed. As used in this Subpart, *landfill* refers only to such a landfill. C&D debris landfills in Nassau and Suffolk Counties are regulated under Subpart 60-8 of this Part.

b) Exemptions.

(1) The following facilities are exempt from the permit requirements of this Part provided the facilities operate only between the hours of sunrise and sunset, and if the allowable waste comes from an off-site source) no fee or other form of consideration is required for the privilege of using the facility for disposal purposes:

(i) A site at which only the following C&D debris is placed: recognizable uncontaminated concrete and concrete products (including steel or fiberglass reinforcing rods that are embedded in the concrete), asphalt pavement, brick, glass, soil and rock.

(ii) A landfill for the disposal of trees, stumps, yard waste and wood chips generated from these materials is exempt when origin and disposal of such waste occur on properties under the same ownership or control.

(iii) A C&D debris landfill is exempt if it meets the requirements of section 309 of the Adirondack Park Agency Act and is under the jurisdiction of, and constructed and operated pursuant to, a permit issued by the Adirondack Park Agency. However, C&D debris landfills under the jurisdiction of the Adirondack Park Agency operating without written authorization from the Adirondack Park

Agency are subject to regulation under this Part.

(2) A landfill that falls under the jurisdiction and is located on the property of either the New York State Thruway Authority (TA) or the New York State Department of Transportation (DOT) is exempt from regulation under this Part if it meets the specifications contained in a memorandum of understanding executed by the TA and the department or the DOT and the department. Until such memoranda are executed, the TA and DOT must comply with the requirements of this Part.

(3) Definitions. The following terms have the following meanings when used in this Subpart:

(1) *Local need* means that no other facility is available to the project sponsor for the disposal of C&D debris within a five-mile radius of the location of the proposed facility.

(2) *Processed* means processed by mechanical means such as, but not limited to crushing, grinding, chipping or shredding that breaks and separates the components of C&D debris into small fragments so that the resin components of these fragments cannot be readily identified by the department through visual observation.

(3) *Recognizable* means solid waste that can be readily identified as C&D debris by visual observation.

(4) *Uncontaminated* means C&D debris that is not mixed or commingled with other solid waste at the point of generation, processing or disposal, and that is not contaminated with spills of a petroleum product, hazardous waste or industrial waste. Contamination from spills of a petroleum product does not include asphalt or concrete pavement that has come into contact with petroleum products through normal



M E M O R A N D U M

TO: Rich Habrukowich, Versar, Bristol, PA
FROM: Donna Oswald, Versar, Lombard, IL *DOS*
DATE: July 10, 2001
RE: **Data Validation/Usability Report for Plattsburgh AFB
Stump Dump Landfill, Excavation Soil Samples**

1.0 INTRODUCTION

On May 7, 2001, thirteen soil samples including two field duplicate pairs were collected at Plattsburgh AFB from the limits of the excavation areas of the Sump Dump Landfill. The samples were sent to Kemron Environmental Services (Kemron), located in Marietta, Ohio, for analysis of volatiles (VOCs) by EPA Method SW8260B, semivolatiles (SVOCs) by EPA Method SW8270C and TAL metals by EPA methods 6010B and 7000 series. Analyses were performed in accordance with Air Force Center for Environmental Excellence (AFCEE) Quality Assurance Project Plan (QAPP) Version 3.0 (March 1998) with the exception of several laboratory variances for VOCs and SVOCs. Several compounds that are not part of the AFCEE target analyte list for VOCs and SVOC were also included to satisfy NYDEC reporting requirements. The additional compounds are the VOCs, acetone and 2-butanone, 2-hexanone, 4-methyl-2-pentanone by EPA method SW8260B and the SVOC, benzo(k)fluoranthene by EPA Method SW8270C. As these compounds are not included in the AFCEE QAPP, laboratory historical statistical limits were used to evaluate the VOC analytical results while benzo(k)fluoranthene was evaluated according to QAPP limits for its isomer benzo(b)fluoranthene. The analytical results are presented in Table 1. The approved laboratory variations from the AFCEE QAPP and case narratives are included as attachments to this memorandum.

The data were qualified in accordance with the validation protocols in the AFCEE QAPP, Version 3.0 (March 1998). Qualifiers resulting from the validation process were incorporated into Tables 1A – 1C. The laboratory performed the initial review of the data package, and qualified the data in accordance with the AFCEE QAPP requirements. Final qualification of the data was made by the Versar project chemist based on the results of the data validation. The following items were reviewed during the data validation process: chain of custody, sample condition upon receipt, extraction/analysis holding times, method detection/reporting limits, internal standards, surrogates, matrix spike/matrix spike duplicate (MS/MSD) analysis results, laboratory control sample (LCS) recoveries, initial and continuing calibrations, second source calibration verification standards, laboratory method and field QC blank contamination, instrument tuning, and report completeness. Table 2 is a summary of qualifications resulting from the data validation process and includes results and the rationale behind the data qualification.

The hierarchy of AFCEE qualifiers from most to least severe are as follows; "R" (rejected), "M" (matrix effect present), "F" (results above method detection limit, but below reporting limit), "J" (estimated value), "B" (blank contamination), "U" (not detected) and "D" (sample analyzed at a dilution). "B" and "D" are informational qualifiers that do not provide information regarding the usability of a data point. Evaluation of other factors (such as the magnitude of the blank contamination relevant to the sample concentration or sample result to the elevated RLD) is required to determine the usability of the qualified data point.

The samples were received by Kemron intact and under proper chain-of-custody. The temperature of the sample cooler upon receipt at the laboratory was 1°C. This was outside the normal recommended range of $4 \pm 2^\circ\text{C}$ but should not impact the samples. Laboratory sample receipt records indicate that the sample cooler contained ice upon receipt. The chain-of-custody forms are included as an attachment to this report.

2.0 VALIDATION

Volatile Data (Method 8260B)

All project specific QC criteria were met and all results are acceptable for use, except as indicated below:

All calibration requirements as specified in attachment A were run and met criteria specified in the QAPP. The laboratory determined that some target analytes were more accurately quantitated using a linear regression (AQUEOUS: chloromethane; SOIL: chloromethane, acetone, 4-methyl-2-pentanone (MIBK), cis-1,3-dichloropropene, 1-chlorohexane, styrene, 1,3,5-trimethylbenzene, tert-butylbenzene) or a quadratic curve (SOIL: vinyl chloride). All acceptance criteria as specific in Table 7.2.9-3 were met. The added compounds are not present in the QAPP. These compounds are noted for their instability, however the %difference of continuing calibration from the initial calibration was within method guidelines of $\pm 25\%$. Laboratory qualification of these compounds was not warranted and the flags mentioned in the case narrative were removed.

No target analytes were detected above the reporting limit (RL) in the laboratory method blanks. The laboratory reported trace levels ($> \text{MDL}$ but $< \text{RL}$) of 1,2,4-trichlorobenzene (0.53 ug/L), methylene chloride (0.51 ug/L), naphthalene (0.89 ug/L) and styrene (1.8 ug/L) in the method blank associated with the soil samples. Per the QAPP, qualification is only required for blank contamination above the PQL. Naphthalene and styrene were detected in one sample (PAFB-SD-A1-02) at a trace level similar to that detected in the laboratory blank. The positive results for these compounds in this sample, while not qualified "B" should be considered either artifacts and/or biased high as a result of the observed laboratory contamination and therefore not representative of actual field conditions.

In the Volatile Laboratory Control Sample (LCS) criteria, were met for all target analytes for both soil and aqueous analyses. Volatile surrogate recovery was acceptable for all samples.

In the MS/MSD analyses (performed on sample PAFB-SD-A1-01), low bias was observed for a number of volatile compounds (tert-butylbenzene, sec-butylbenzene, n-butylbenzene, p-isopropyl toluene, hexachlorobutadiene, naphthalene and 1,2,4-trichlorobenzene). The associated LCS results were acceptable indicating a matrix effect was likely responsible for the other observed out of control recoveries and poor precision. Associated results in this sample have been qualified with an "M". None of these compounds were detected in any of the other field samples. The bias should not preclude the use of these results to demonstrate compliance with action levels.

Several target analytes were detected below the RL but above the MDL. They are considered to be trace levels and were qualified "F" in accordance with the QAPP. Results for naphthalene and styrene are suspected to be artifacts of laboratory blank contamination. The results for the other compounds are considered to be qualitatively acceptable but quantitatively suspect due to poor analytical precision near the limit of detection.

Semivolatile Data (Method 8270C)

All project specific QC criteria were met and all results are acceptable for use, except as indicated below.

All calibration requirements as specified in attachment A were run and met criteria specified in the QAPP. The laboratory determined that some of the target analytes were more accurately quantitated using a linear regression (hexachlorocyclopentadiene, 2,4-dinitrophenol, 2,4,6-dinitro-2-methylphenol, pentachlorophenol) or a quadratic curve (benzoic acid, benzo(ghi)perylene, 3,3'-dichlorobenzidine). All acceptance criteria as specific in Table 7.2.10-3 of the QAPP were met.

In the Continuing Calibration Verification (CCV) analyses, the % difference (%D) for benzo(ghi)perylene (24.5%) on 5/18/01 at 8:57 (associated with samples PAFB-SD-A3-01, PAFB-SD-A3-06A and PAFB-SD-A3-06B), Indeno(1,2,3-cd)perylene (21.3%) and benzo(ghi)perylene (28.3%) on 5/18/01 at 13:26 (associated with all other soil samples) and dibenzo(ah)anthracene (31.8%) on 5/21/01 at 10:50 (associated with the re-analysis of PAFB-SD-A1-01) exceeded calibration quality control criteria ($\%D \leq 20\%$). Calibration results indicate that instrument sensitivity for these compounds was marginally lower on the dates in question relative to the initial calibration. In accordance with the AFCEE QAPP, the results for these compounds in the associated samples are qualified "R". None of these compounds were detected in any of the associated samples. Minor exceedences of daily calibration drift or SSC criteria typically have no impact on the laboratory's ability to detect a compound providing that sensitivity is acceptable. Sensitivity criteria for these compounds were met. The non-detect results for these analytes should be acceptable for use. Positive results for benzo(ghi)perylene and indeno(1,2,3-cd)perylene while associated with an uncertainty of less than 30% are at least an order of magnitude below the applicable TAGMS criteria and should be acceptable for use.

No target analytes were detected above the MDL in the method blanks associated with this project.

QC acceptance criteria for the semi-volatile LCS were not met for 2-chloronaphthalene in the LCS sample associated with the soil samples. Associated samples are qualified "R" per the QAPP. This compound was not detected in any of the associated samples and the LCS result is indicative of low bias. There are no TAGMs cleanup objectives for this compound.

Sample PAFB-SD-A2-01 was selected by the laboratory for MS/MSD analysis. 2-Chloronaphthalene was biased low. Calibration criteria were met for this compound, however the associated LCS was biased low, indicating a lack of analytical control. The low bias in the matrix spike sample is therefore believed to be due to an analytical problem as opposed to a matrix effect. No additional qualification was required.

A matrix effect resulting in suppression of the last internal standard was observed for sample PAFB-SD-A1-01. This sample was analyzed at a 2-fold dilution in an attempt to dilute out suspected interferents as internal standards are added *after* sample preparation just prior to sample analysis. The sample was reanalyzed at a 2-fold dilution on a later date with similar results. Examination of the sample chromatograms show the presence of a hydrocarbon-like hump eluting late in the run that is likely responsible for the suppression of the recovery of the 6th internal standard. Per the QAPP the associated results and or reporting limits are qualified "R". Positive results above an action level (benzo(a)pyrene and benzo(b)fluoranthene), while quantitatively suspect are qualitatively acceptable for use as estimates but are likely to be biased low by 50% or more (based on observed low bias of the internal standard). Results for benzo(ghi)perylene and di-n-octylphthalate are acceptable for use as estimates as result or reporting limit are more than an order of magnitude below the applicable TAGMS level. Results for benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene and dibenzo(a,h)anthracene are not acceptable for use to demonstrate compliance with the TAGMS level.

Numerous target analytes were detected below the RL but above the MDL. They are considered trace levels and were qualified "F" in accordance with the QAPP. These results are qualitatively acceptable but quantitatively suspect due to poor analytical precision near the limit of detection. These were mainly compounds of the polynuclear aromatic hydrocarbon (PAH) class.

Metals Data (Methods 6010B, 7841, 7471)

All project specific QC criteria were met and all results are acceptable for use, except as indicated below.

Sample PAFB-SD-A1-01 was selected by the laboratory for matrix spike analysis. Calcium and magnesium were biased high; lead, antimony and were biased low and barium and calcium exhibited poor precision. Analytical control was demonstrated by acceptable LCS recoveries, therefore the observed biases are likely due to a matrix effect. Metals associated with matrix spike bias and or poor precision are qualified "M" for use as estimates per the QAPP.

Sample PAFB-SD-A1-02B was selected by the laboratory for duplicate analysis. Two aliquots were selected from the same sample jar and submitted for analysis. The RPD of the 2 results is calculated and compared against precision criteria. No QAPP criteria exist for duplicate analyses, therefore matrix spike/matrix spike RPD criteria as defined in the QAPP were used for evaluation purposes for results greater than 2 x RDL (other results were evaluated against criteria of ± 2 x RDL). This evaluation scheme is based on guidance presented for the evaluation of field duplicates in "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA-540/R-94-013. Acceptable precision (RPD \leq 20% or ± 2 x RDL) was demonstrated for all metals except calcium, cobalt, iron, manganese and selenium. As the daily LCS met criteria, the poor precision is likely due to sample heterogeneity. Metals associated with poor field precision are qualified "J" for use as estimates. The actual concentration is somewhere in the range bordered by the results from the 2 sample analyses.

Numerous target analytes were detected below the RL but above the MDL. They are considered trace levels and were qualified "F" in accordance with the QAPP. These results are qualitatively acceptable but quantitatively suspect due to poor analytical precision near the limit of detection.

Field Duplicate Evaluations

Samples PAFB-SD-A1-02 / PAFB-SD-A1-02B and PAFB-SD-A3-06A / PAFB-SD-A3-06B were field duplicate pairs. No QAPP criteria exist for field duplicate analyses, therefore matrix spike/matrix spike RPD criteria as defined in the QAPP were used for evaluation purposes for results greater than 5 x RDL (other results were evaluated against criteria of ± 2 x RDL). This evaluation scheme is based on guidance presented for the evaluation of field duplicates in "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA-540/R-94-013. Field duplicate results are summarized in Table 3.

No VOC target analytes were detected above the RDL in any of the samples. Trace levels of several analytes were detected in PAFB-SD-A1-02 and its duplicate. No criteria in the QAPP exists for the evaluation of field duplicates. For results less than 5 x RDL, criteria of ± 2 x RDL is commonly used. All positive results met guidance of ± 2 x RDL, therefore acceptable field precision was demonstrated for VOCs.

No SVOC target analytes were detected above the MDL in any of the samples, therefore acceptable field precision was demonstrated for SVOCs.

Acceptable precision (RPD \leq 20% or ± 2 x RDL) was demonstrated for all metals except aluminum, barium, manganese, sodium, vanadium and zinc in the samples collected from location A3-06 and calcium, iron, lead, magnesium, manganese and zinc in the samples collected from location A1-02. As the daily LCS met criteria, the poor precision is likely due to sample heterogeneity. Metals associated with poor field precision are qualified "J" for use as estimates. The actual concentration is somewhere in the range bordered by the results from the 2 sample analyses.

3.0 COMPLETENESS

The AFCEE QAPP goal for completeness is 90% for soil matrixes. Percent completeness is defined as the number of valid results divided by the total number of individual target compound results. Valid results are those that have not been rejected (qualified "R"). The percent completeness for each method and matrix is as follows:

| <u>Method</u> | <u>Matrix</u> | <u>Percent Completeness</u> |
|-------------------------|---------------|-----------------------------|
| Volatiles (SW8260B) | Soil | 100% |
| Semivolatiles (SW8270C) | Soil | 94.6% |
| Metals | Soil | 100% |

The completeness goal of 90% was met for the soil samples. Overall percent completeness for all parameters was over 97%.

ATTACHMENTS

Attachment A

Initial Calibration quality control requirements for reportable analytes

| QC requirement | multi-point calib. | Multi-point %RSD or r OK | Low standard < RL | Second Source Standard (SSC) | SSC %D OK | Tune within 12 hours & tune OK | CCC RSD OK | SPCC RRFs OK |
|-------------------|--------------------|--------------------------|-------------------|------------------------------|-----------|--------------------------------|------------|--------------|
| Analytical Method | | | | | | | | |
| 8260B | x | x | x | X | x | x | x | x |
| 8270C | x | x | x | X | x | x | x | x |
| 6010B/7000 | x | x | x | X | x | | | |

Continuing Calibration quality control requirements for reportable analytes

| QC requirement | Acceptable tune within 12 hours | CCC %D OK | SPCC RF(50) OK | Column Breakdown Check ok | Continuing Calibration Verification Standard (CCV) | CCV %D OK |
|-------------------|---------------------------------|-----------|----------------|---------------------------|--|-----------|
| Analytical Method | | | | | | |
| 8260B | x | X | x | | | |
| 8270C | x | X | x | | | |
| 6010B/7000 | | | | | x | x |

ATTACHMENT

CHAIN OF CUSTODIES

| Company Name: VEKSAR | | Contact Phone #: 215 356 3506 | | | | | |
|---|--------|---|-------|---|----------------------|--|--------------------------|
| Project Contact: RICH MADRUKOWICH | | Location: PLATTSBURGH, NY | | | | | |
| Turn Around Requirements: STANDARD | | Project Name: CD/Stamp Duplication | | | | | |
| Project #: 4521-441 | | Signature: <i>[Signature]</i> | | | | | |
| Sampler (print): BRYAN FOLEY | | Signature: <i>[Signature]</i> | | | | | |
| Sample I.D. No | Date | Time | Comp. | Grab | NUMBER OF CONTAINERS | Program | Comments |
| | 5/7/01 | 16:37 | X | X | 3 | <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> USACE <input type="checkbox"/> Other | TAL METALS VOL SVC |
| PAFC | | 16:40 | X | X | | | |
| PAFC | | 16:40 | X | X | | | |
| PAFC | | 16:45 | X | X | | | |
| PAFC | | 16:53 | X | X | | | |
| PAFC | | 16:58 | X | X | | | |
| PAFC | | 17:05 | X | X | | | |
| PAFC | | 17:07 | X | X | | | |
| PAFC | | 17:09 | X | X | | | |
| PAFC | | 17:11 | X | X | | | |
| PAFC | | 17:12 | X | X | | | |
| PAFC | | 17:17 | X | X | | | |
| PAFC | | 17:17 | X | X | | | |
| Relinquished by: <i>[Signature]</i> | | Date | Time | Received by: (Signature) | Date | Time | Received by: (Signature) |
| Relinquished by: <i>[Signature]</i> | | 5/7/01 | 11:00 | <i>[Signature]</i> | | | |
| Relinquished by: <i>[Signature]</i> | | Date | Time | Received for Laboratory by: (Signature) | Date | Time | Cooler Temp in °C |
| Relinquished by: <i>[Signature]</i> | | | | <i>[Signature]</i> | 5/9/01 | 12:17 | |
| | | | | Remarks: <i>C/C Deleted</i> <i>See contact log</i> | | | |

* Homogenize all composite samples prior to analysis

CASE NARRATIVES

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0105181

METHOD

Preparation: SW- 846 5030B

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on 05/11/01 on HPMS-9 yielded % D's for 2-butanone and 2-hexanone that exceeded the criteria of less than +/- 20 %. AFCEE flagging was applied; however, criteria for these particular compounds is not discussed in the AFCEE QAPP. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: Sample fraction 01 was chosen internally for MS/MSD analyses and yielded % recoveries for several compounds that were outside of the advisory limits. All other acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RSS

REVIEWED

Stephan A. Lipe DATE: 5/17/01

48 5

**REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

KEMRON Report No.: L0105181

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)

Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on 5/18/01 at 8:57 yielded a %D for benzo[ghi]perylene that exceeded the limit of less than +/-20%.

The CCV analyzed on 5/18/01 at 13:26 yielded %D's for indeno[1,2,3-cd]pyrene and benzo[ghi]perylene that exceeded the limit of less than +/-20%.

The CCV analyzed on 5/21/01 yielded a %D for indeno[1,2,3-cd]pyrene that exceeded the limit of less than +/-20%. Samples were flagged accordingly. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS associated with these samples yielded a % recovery for 2-chloronaphthalene that was below the lower advisory limit. All other acceptance criteria were met.

Matrix Spikes: Sample 05 was chosen internally for MS/MSD analysis.

SAMPLES

Internal Standards: Sample 01 yielded an area for p-terphenyl-d14 that was below the lower acceptance limit. The sample was reanalyzed with similar results. Both sets of results were reported. All other acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

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I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: mdc

REVIEWED Stephanie Dejeu DATE: 5/25/01

Rev. 6/00

-1111-
Kly

**REPORT NARRATIVE
METALS**

KEMRON Login No: L0105181

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SLP

REVIEWED

Maren Beery DATE: 05/22/01

Rev. 6/00

- 111 - 18

VARIANCES

**AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
ENVIRONMENTAL RESTORATION SERVICES
BROOKS AFB, TX 78235**

29 Nov 00

MEMORANDUM FOR HQ AFCEE/ERB

ATTENTION: Roy Willis/RTC/Plattsburg AFB

**FROM: Burt Harrison
Environmental Chemistry Consultant
AFCEE/ERC
3207 North Road
Brooks AFB, Tx 78235**

**SUBJECT: Environmental Chemistry Review of the Kemron Laboratory QAPP
Variances Prepared by Versar for the Plattsburg AFB Project.**

References: (a) Handbook for the Installation Restoration Program (IRP) - Remedial Investigation/Feasibility Studies (RI/FS), AFCEE, Sept. 1993. (b) U.S. EPA Test Methods for Evaluating Solid Wastes (SW 846), third edition, July 1992. (c) HQ AFCEE Quality Assurance Project Plan, March 1998.

A review of the Quality Assurance Project Plan variances for the Plattsburg AFB, NY project prepared by Versar are acceptable with the following exceptions. Recommend sample results be reported on a dry weight basis except for SW5035 samples where it is not possible. Concur with all Reporting Limit variances if approved by the New York State RPM and the USEPA RPM. Do not concur with calibration variances. Do not concur with recovery limits lower than 20% for any analyte for any analytical procedure. Concur with the MDL variance request after a survey of a number of AFCEE laboratories concerning this MDL issue requirement.

If you have any questions regarding this review or these comments, please contact me at (210) 536-5226.

**Burt Harrison
Environmental Chemistry Consultant
Consultant Operations Division
AFCEE/ERC**

QAPP Section 4.3.1 MDL Spike Levels

AFCEE REQUIREMENT:

Item (6) of Section 4.3.1 states "If the spike level in step 2 is more than five times the calculated MDL, repeat the process using a smaller spiking level."

VARIANCE REQUEST:

The laboratory requests a variance to change "five times" to read "ten times".

JUSTIFICATION:

The analytes that fail the "five times" criteria are on those instruments or methods that are very precise and have low relative standard deviations. Any procedure with a relative standard deviation less than 6.67% (at the spiked level) will produce MDLs that do not meet the "fives times" criteria. Furthermore, this process tends to underestimate the MDL, so repeating the process at a lower spiking level may not produce meaningful data, particularly, if the spike level is below the quantitation limit (lowest calibration standard).

If so desired, the MDLs for those few analytes that fail the "five times" criteria MDL could be assigned a value equal to one-tenth the spike level, or one-half the project required RL, whichever is higher. This will assure that all project DQOs related to the MDLs and RLs will be met.

KEMRON meets the EPA criteria that the spike concentration should not exceed ten times the estimated MDL and AFCEE has accepted this interpretation on previous projects.

QAPP Section 8.2 - Wet Weight vs. Dry Weight

AFCEE REQUIREMENT:

Section 8.2 of the AFCEE QAPP V3.0 requires that "A wet weight aliquot of sample equivalent to the method specified dry weight aliquot of sample shall be taken for analysis."

KEMRON VARIANCE REQUEST:

The laboratory requests a variance to allow the method prescribed sample weights to be determined on the "as-received" basis, as specified in SW846.

JUSTIFICATION:

- 1) Increasing the amount of wet weight changes the sample/solvent ratios, which may significantly reduce the recovery of analytes from the matrix, resulting in poor surrogate recovery and more R flagged data. Altering the sample/solvent reagent ratios is a direct violation of the SW-846 methods.
- 2) Organic extraction methods such as 3540, 3545 and 3550 have a limit on the quantity of sample they can effectively process.
- 3) The QAPP procedure cannot be applied to samples collected by method 5035 for volatile organic analysis.

QAPP Section 7.3.9 - SW846 Reporting Limits

KEMRON VARIANCE REQUEST:

Reporting limit (RL) variances for the following analytes:

| Analyte | AFCEE RL (ug/L) | Proposed RL (ug/L) |
|---------------------------|-----------------|--------------------|
| 1,1,2,2 Tetrachloroethane | 0.4 | 0.8 |
| 1,1-Dichloroethane | 0.4 | 0.5 |
| 1,2,3-Trichlorobenzene | 0.3 | 1 |
| 1,2,4-Trichlorobenzene | 0.4 | 2 |
| 1,2-Dichlorobenzene | 0.3 | 1 |
| 1,2-Dichloropropane | 0.4 | 0.5 |
| 1,3-Dichloropropane | 0.4 | 0.5 |
| 1-Chlorohexane | 0.5 | 1 |
| 1,4-Dichlorobenzene | 0.3 | 1 |

| | | |
|------------------------|-----|-----|
| 2-Chlorotoluene | 0.4 | 1 |
| Benzene | 0.4 | 0.5 |
| Bromobenzene | 0.3 | 1 |
| Bromochloromethane | 0.4 | 0.5 |
| Bromodichloromethane | 0.8 | 1 |
| Chlorobenzene | 0.4 | 0.5 |
| Chloroform | 0.3 | 0.5 |
| Ethylbenzene | 0.6 | 1 |
| Methylene Chloride | 0.3 | 2 |
| n-propylbenzene | 0.4 | 1 |
| Naphthalene | 0.4 | 1 |
| Styrene | 0.4 | 1 |
| Trichlorofluoromethane | 0.8 | 1 |
| Dibromochloromethane | 0.5 | 0.6 |
| 1,2-Dichloroethane | 0.6 | 0.7 |
| m,p-Xylene | | 1 |

JUSTIFICATION:

The laboratory low calibration standard is not at the AFCEE RL. The proposed RL will meet the project requirements.

AFCEE REQUIREMENT:

Table 7.2.9-1 lists m-Xylene and p-Xylene as separate analytes.

KEMRON VARIANCE REQUEST:

KEMRON requests a variance to report m-Xylene and p-Xylene as one analyte, since the compounds co-elute.

QAPP Section 7.2.9 SW5035 Preservation

VARIANCE REQUEST:

KEMRON requests that method 5035 soil preservation be limited to freezing and that the holding time be accepted as 14 days.

JUSTIFICATION:

This variance is needed to prevent the degradation of performance of several (\$260) target analytes and the failure of these analytes to meet the QAPP 3.0 quality control requirements for the second source verification and continuing calibration verification (CCV). The analytes most affected by affected by the sodium bisulfate are chlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and trichlorofluoromethane. These compounds have a high probability of failing ICV/CCV criteria, resulting in R flags on all samples. Using the freezing option will eliminate these problems. The freezing option and 14-day hold time is being accepted by some states and selected US-EPA regions.

QAPP Section 7.2.10 SW6020 Surrogate Control Limit

VARIANCE REQUEST:

KEMRON requests a variance to change the second source initial calibration verification (ICV) and continuing calibration verification (CCV) criteria from +/- 25 % to +/- 40% for chlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and trichlorofluoromethane.

JUSTIFICATION:

These compounds are very prone to ICV/CCV failure when sodium bisulfate is used as a preservative. Without the variance these compounds will probably have to be R-flagged.

QAPP Section 7.2.10 SW6020 Surrogate Control Limit

AFCEE REQUIREMENT:

Table 7.2.10-2 lists the acceptance limit for phenol-D5 as 25-125 % recovery in water.

KEMRON VARIANCE REQUEST:

KEMRON requests a variance to use 10 - 125 % recovery as the acceptance limit in water

JUSTIFICATION:

Phenol recovery above 10% is not achievable routinely due to poor extraction efficiency. Industry-wide statistics do not support the 25 – 125 % recovery limit.

QAPP Section 7.2.10 SW8270 LCS Control Limits

AFCEE REQUIREMENT: see table below

VARIANCE REQUEST:

LCS Control Limit variances for 8270 compounds in water:

| Compound | AFCEE LCS LIMITS | PROPOSED LCS LIMITS |
|---------------------------|----------------------------|---------------------|
| Phenol | 25-125 | 20-125 |
| 2-Chloronaphthalene | 60-125 | 49-120 |
| Hexachlorocyclopentadiene | Delete as a target analyte | |
| Benzoic Acid | 25-162 | 20-125 |
| 3,3'-Dichlorobenzidine | 29-175 | 20-125 |
| Phenol-d5 (surrogate) | 25-125 | 20-125 |

JUSTIFICATION:

These compounds are industry-wide poor performers and consistently give recoveries below the AFCEE lower control limits. Hexachlorocyclopentadiene has been proposed for deletion as an analyte from the AFCEE 3.1 QAPP. The proposed limits are taken from the AFCEE 3.1 QAPP.

QAPP Section 7.2.15.1 SW4010B ICP

KEMRON VARIANCE REQUEST:

Reporting limit (RL) variances for the following analytes in water:

| Analyte | AFCEE RL (mg/L) | Proposed RL (mg/L) |
|---------|-----------------|--------------------|
| Zinc | 0.01 | 0.02 |

JUSTIFICATION:

The proposed RL will meet the project requirements.

QAPP Section 7.2.17.17 SW 7000 Method Variance - Water

AFCEE REQUIREMENT:

AFCEE projects often specify that arsenic, antimony, chromium, cadmium, lead, selenium, thallium and vanadium shall be performed by their respective 7000 – GFAA methods:

| Metal | Method | AFCEE RL (mg/L) |
|----------|--------|-----------------|
| Arsenic | 7060A | 0.005 |
| Chromium | 7191 | 0.005 |
| Cadmium | 7131A | 0.001 |
| Lead | 7421 | 0.005 |
| Vanadium | 7911 | 0.004 |
| Antimony | 7041 | 0.005 |
| Selenium | 7740 | 0.005 |
| Thallium | 7841 | 0.001 |

KEMRON VARIANCE REQUEST:

Method Variance:

KEMRON requests a variance to use Method 6010B or 6020A in lieu of the GFAA methods. Analyzing these metals by ICP-AES or ICP-MS will not elevate the reporting limits, but will eliminate the inherent errors of GFAA methods:

| Metal | Method | Proposed RL (mg/L) |
|----------|-------------|--------------------|
| Arsenic | 6010B/6020A | 0.005 |
| Chromium | 6010B | 0.005 |
| Cadmium | 6010B | 0.001 |
| Lead | 6010B/6020A | 0.005 |
| Vanadium | 6010B | 0.004 |
| Antimony | 6020A | 0.005 |
| Selenium | 6020A | 0.005 |
| Thallium | 6020A | 0.001 |

JUSTIFICATION:

The proposed RLs are equal to the 7000 method RLs and meet the project DQOs.

QAEP Section 22.17-27 SW 7000 Method Variance - Soil

AFCEE REQUIREMENT:

AFCEE DQOs often specifies that arsenic, antimony, selenium, thallium, chromium, cadmium, lead and vanadium be performed by their respective 7000 – GFAA methods:

KEMRON VARIANCE REQUEST:

Method Variance:

KEMRON requests a variance to use Method 6010B or 6020A in lieu of the GFAA methods. KEMRON will use a method that will meet the project action limits, either by ICP-AES or ICP-MS. The following RLs are proposed:

| | AFCEE 7000 RL (mg/kg) | Proposed 6010 RL (mg/kg) | Proposed 6020A RL (mg/kg) |
|----------|--------------------------|-----------------------------|------------------------------|
| Antimony | 0.5 | 1 | 0.2 |
| Arsenic | 0.5 | 1 | 0.5 |
| Lead | 0.5 | 1 | 0.5 |
| Selenium | 0.5 | 1 | 0.5 |
| Vanadium | 0.4 | 0.5 | N/A |
| Chromium | 0.5 | 0.5 | N/A |
| Cadmium | 0.1 | 0.1 | N/A |
| Thallium | 0.1 | 2 | 0.1 |

JUSTIFICATION:

Project DQOs will not be affected, and the inherent errors of GFAA methods will be eliminated.

QAEP Section 22.17-27 SW 7000 Reporting Limits - Soil

KEMRON VARIANCE REQUEST:

Reporting limit variance for the following analyte:

| Analyte | AFCEE RL (mg/kg) | Proposed RL (mg/kg) |
|----------|------------------|---------------------|
| Thallium | 0.1 | 0.25 |

JUSTIFICATION:

The laboratory MDL does not support the AFCEE RL. This variance is needed if 7000 methods are required.

KEMRON VARIANCE REQUEST:

Reporting limit variance for the following analyte:

| Analyte | AFCEE RL (mg/L) | Proposed RL (mg/L) |
|----------|-----------------|--------------------|
| Thallium | 0.001 | 0.005 |
| Antimony | 0.005 | 0.006 |

JUSTIFICATION:

The laboratory MDLs for the 7000 methods do not support the AFCEE RL. This variance is needed if 7000 methods are required.

TABLES

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A1-01 L0105181-01 5/11/01 | | | | PAFB-SD-A1-02 (FD1) ⁽¹⁾ L0105181-02 5/12/01 | | | |
|---|--|---|------|--------------------------|--------|--|------|--------|--------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| | | Analyte | | Objective ⁽²⁾ | | Result | QUAL | RDL | MDL |
| % Solids | NA | 86% | | | | 79% | | | |
| 1,1,1,2-Tetrachloroethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,1,1-Trichloroethane | 0.8 | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| 1,1,2,2-Tetrachloroethane | 0.6 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,1,2-Trichloroethane | 6 | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,1-Dichloroethane | 0.2 | | U | 0.0017 | 0.0008 | | U | 0.0017 | 0.0008 |
| 1,1-Dichloroethene | 0.4 | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| 1,1-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,2,3-Trichlorobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,2,3-Trichloropropane | 0.4 | | U | 0.016 | 0.0005 | | U | 0.016 | 0.0005 |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2,4-Trimethylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| 1,2-Dibromo-3-chloropropane | NL | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| 1,2-Dibromoethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2-Dichloroethane | 0.1 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichloropropane | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,3,5-Trimethylbenzene | NL | | U | 0.0024 | 0.0004 | 0.00238 | F | 0.0024 | 0.0004 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| 1,3-Dichloropropane | 0.3 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1-Chlorohexane | NL | | U | 0.0024 | 0.0000 | | U | 0.0024 | 0.0000 |
| 2,2-Dichloropropane | NL | | U | 0.016 | 0.0004 | | U | 0.016 | 0.0004 |
| 2-Butanone (MEK) | 0.3 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 2-Chlorotoluene | NL | | U | 0.002 | 0.0004 | | U | 0.002 | 0.0004 |
| 2-Hexanone | NL | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 4-Chlorotoluene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 4-Methyl-2-pentanone (MIBK) | 1 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Acetone | 0.2 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Axylene | 0.06 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Bromobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromochloromethane | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromodichloromethane | NL | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| Bromoform | NL | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| Bromomethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Carbon tetrachloride | 0.6 | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Chlorobenzene | 1.7 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloroethane | 1.9 | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Chloroform | 0.3 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloromethane | NL | | U | 0.0059 | 0.0017 | | U | 0.0059 | 0.0017 |
| cis-1,2-Dichloroethene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| cis-1,3-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Dibromochloromethane | N/a | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Dibromomethane | NL | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Dichlorodifluoromethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Ethylbenzene | 5.5 | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Hexachlorobutadiene | NL | | M | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| Isopropylbenzene | NL | | U | 0.0067 | 0.0004 | | U | 0.0067 | 0.0004 |
| m,p-Xylene | 1.2 (TOTAL) | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Methylene chloride | 0.1 | | U | 0.0016 | 0.0008 | | U | 0.0016 | 0.0008 |
| n-Butylbenzene | NL | | M | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| n-Propylbenzene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Naphthalene | 13 | | M | 0.0016 | 0.0004 | 0.000684 | | 0.0016 | 0.0004 |
| o-Xylene | 1.2 (TOTAL) | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| p-Isopropyltoluene | NL | | M | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| sec-Butylbenzene | NL | | M | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Styrene | NL | | U | 0.0016 | 0.0004 | 0.00182 | F | 0.0016 | 0.0004 |
| tert-Butylbenzene | NL | | M | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Tetrachloroethene | 1.4 | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Toluene | 1.5 | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trans-1,2-Dichloroethene | 0.3 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| trans-1,3-Dichloropropene | NL | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| Trichloroethene | 0.7 | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| Trichlorofluoromethane | NL | | U | 0.0032 | 0.0008 | | U | 0.0032 | 0.0008 |
| Vinyl chloride | 0.2 | | U | 0.0072 | 0.0008 | | U | 0.0072 | 0.0008 |

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A1-02B (FD1 ¹) L0105181-03 5/12/01 | | | | PAFB-SD-A1-03 L0105181-04 5/12/01 | | | |
|---|--|--|------|--------|--------|---|------|--------|--------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| % Solids | NA | 93% | | | | 77% | | | |
| 1,1,1,2-Tetrachloroethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,1,1-Trichloroethane | 0.8 | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| 1,1,2,2-Tetrachloroethane | 0.6 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,1,2-Trichloroethane | 6 | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,1-Dichloroethane | 0.2 | | U | 0.0017 | 0.0008 | | U | 0.0017 | 0.0008 |
| 1,1-Dichloroethene | 0.4 | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| 1,1-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,2,3-Trichlorobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,2,3-Trichloropropane | 0.4 | | U | 0.016 | 0.0005 | | U | 0.016 | 0.0005 |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2,4-Trimethylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| 1,2-Dibromo-3-chloropropane | NL | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| 1,2-Dibromoethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2-Dichloroethane | 0.1 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichloropropane | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,3,5-Trimethylbenzene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| 1,3-Dichloropropane | 0.3 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1-Chlorohexane | NL | | U | 0.0024 | 0.0000 | | U | 0.0024 | 0.0000 |
| 2,2-Dichloropropane | NL | | U | 0.016 | 0.0004 | | U | 0.016 | 0.0004 |
| 2-Butanone (MEK) | 0.3 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 2-Chlorotoluene | NL | | U | 0.002 | 0.0004 | | U | 0.002 | 0.0004 |
| 2-Hexanone | NL | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 4-Chlorotoluene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 4-Methyl-2-pentanone (MIBK) | 1 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Acetone | 0.2 | 0.00458 | F | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Benzene | 0.06 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Bromobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromochloromethane | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromodichloromethane | NL | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| Bromoform | NL | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| Bromomethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Carbon tetrachloride | 0.6 | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Chlorobenzene | 1.7 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloroethane | 1.9 | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Chloroform | 0.3 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloromethane | NL | | U | 0.0059 | 0.0017 | | U | 0.0059 | 0.0017 |
| cis-1,2-Dichloroethene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| cis-1,3-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Dibromochloromethane | N/a | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Dibromomethane | NL | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Dichlorodifluoromethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Ethylbenzene | 5.5 | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Hexachlorobutadiene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| Isopropylbenzene | NL | | U | 0.0067 | 0.0004 | | U | 0.0067 | 0.0004 |
| m-,p-Xylene | 1.2 (TOTAL) | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Methylene chloride | 0.1 | | U | 0.0016 | 0.0008 | | U | 0.0016 | 0.0008 |
| n-Butylbenzene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| n-Propylbenzene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Naphthalene | 13 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| o-Xylene | 1.2 (TOTAL) | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| p-Isopropyltoluene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| sec-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Styrene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| tert-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Tetrachloroethene | 1.4 | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Toluene | 1.5 | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trans-1,2-Dichloroethene | 0.3 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| trans-1,3-Dichloropropene | NL | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trichloroethene | 0.7 | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| Trichlorofluoromethane | NL | | U | 0.0032 | 0.0008 | | U | 0.0032 | 0.0008 |
| Vinyl chloride | 0.2 | | U | 0.0072 | 0.0008 | | U | 0.0072 | 0.0008 |

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A2-01 L0105181-05 5/12/01 | | | | PAFB-SD-A2-02 L0105181-06 5/12/01 | | | |
|---|--|---|------|--------|--------|---|------|--------|--------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| % Solids | NA | 97% | | | | 99% | | | |
| 1,1,1,2-Tetrachloroethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,1,1-Trichloroethane | 0.8 | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| 1,1,2,2-Tetrachloroethane | 0.6 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,1,2-Trichloroethane | 6 | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,1-Dichloroethane | 0.2 | | U | 0.0017 | 0.0008 | | U | 0.0017 | 0.0008 |
| 1,1-Dichloroethene | 0.4 | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| 1,1-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,2,3-Trichlorobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,2,3-Trichloropropane | 0.4 | | U | 0.016 | 0.0005 | | U | 0.016 | 0.0005 |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2,4-Trimethylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| 1,2-Dibromo-3-chloropropane | NL | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| 1,2-Dibromoethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2-Dichloroethane | 0.1 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichloropropane | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,3,5-Trimethylbenzene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| 1,3-Dichloropropane | 0.3 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1-Chlorohexane | NL | | U | 0.0024 | 0.0000 | | U | 0.0024 | 0.0000 |
| 2,2-Dichloropropane | NL | | U | 0.016 | 0.0004 | | U | 0.016 | 0.0004 |
| 2-Butanone (MEK) | 0.3 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 2-Chlorotoluene | NL | | U | 0.002 | 0.0004 | | U | 0.002 | 0.0004 |
| 2-Hexanone | NL | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 4-Chlorotoluene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 4-Methyl-2-pentanone (MIBK) | 1 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Acetone | 0.2 | 0.0156 | | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Benzene | 0.06 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Bromobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromochloromethane | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromodichloromethane | NL | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| Bromoform | NL | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| Bromomethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Carbon tetrachloride | 0.6 | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Chlorobenzene | 1.7 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloroethane | 1.9 | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Chloroform | 0.3 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloromethane | NL | | U | 0.0059 | 0.0017 | | U | 0.0059 | 0.0017 |
| cis-1,2-Dichloroethene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| cis-1,3-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Dibromochloromethane | N/a | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Dibromomethane | NL | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Dichlorodifluoromethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Ethylbenzene | 5.5 | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Hexachlorobutadiene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| Isopropylbenzene | NL | | U | 0.0067 | 0.0004 | | U | 0.0067 | 0.0004 |
| m-,p-Xylene | 1.2 (TOTAL) | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Methylene chloride | 0.1 | | U | 0.0016 | 0.0008 | | U | 0.0016 | 0.0008 |
| n-Butylbenzene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| n-Propylbenzene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Naphthalene | 13 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| o-Xylene | 1.2 (TOTAL) | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| p-Isopropyltoluene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| sec-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Styrene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| tert-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Tetrachloroethene | 1.4 | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Toluene | 1.5 | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trans-1,2-Dichloroethene | 0.3 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| trans-1,3-Dichloropropene | NL | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trichloroethene | 0.7 | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| Trichlorofluoromethane | NL | | U | 0.0032 | 0.0008 | | U | 0.0032 | 0.0008 |
| Vinyl chloride | 0.2 | | U | 0.0072 | 0.0008 | | U | 0.0072 | 0.0008 |

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-01 L0105181-07 5/12/01 | | | | PAFB-SD-A3-02 L0105181-08 5/12/01 | | | |
|---|--|---|------|--------|--------|---|------|--------|--------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| % Solids | NA | 85% | | | | 83% | | | |
| 1,1,1,2-Tetrachloroethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,1,1-Trichloroethane | 0.8 | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| 1,1,2,2-Tetrachloroethane | 0.6 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,1,2-Trichloroethane | 6 | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,1-Dichloroethane | 0.2 | | U | 0.0017 | 0.0008 | | U | 0.0017 | 0.0008 |
| 1,1-Dichloroethene | 0.4 | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| 1,1-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,2,3-Trichlorobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,2,3-Trichloropropane | 0.4 | | U | 0.016 | 0.0005 | | U | 0.016 | 0.0005 |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2,4-Trimethylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| 1,2-Dibromo-3-chloropropane | NL | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| 1,2-Dibromoethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2-Dichloroethane | 0.1 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichloropropane | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,3,5-Trimethylbenzene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| 1,3-Dichloropropane | 0.3 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1-Chlorohexane | NL | | U | 0.0024 | 0.0000 | | U | 0.0024 | 0.0000 |
| 2,2-Dichloropropane | NL | | U | 0.016 | 0.0004 | | U | 0.016 | 0.0004 |
| 2-Butanone (MEK) | 0.3 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 2-Chlorotoluene | NL | | U | 0.002 | 0.0004 | | U | 0.002 | 0.0004 |
| 2-Hexanone | NL | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 4-Chlorotoluene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 4-Methyl-2-pentanone (MIBK) | 1 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Acetone | 0.2 | | U | 0.008 | 0.0021 | 0.00964 | F | 0.008 | 0.0021 |
| Benzene | 0.06 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Bromobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromochloromethane | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromodichloromethane | NL | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| Bromoform | NL | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| Bromomethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Carbon tetrachloride | 0.6 | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Chlorobenzene | 1.7 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloroethane | 1.9 | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Chloroform | 0.3 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloromethane | NL | | U | 0.0059 | 0.0017 | | U | 0.0059 | 0.0017 |
| cis-1,2-Dichloroethene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| cis-1,3-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Dibromochloromethane | N/a | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Dibromomethane | NL | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Dichlorodifluoromethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Ethylbenzene | 5.5 | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Hexachlorobutadiene | NL | | M | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| Isopropylbenzene | NL | | U | 0.0067 | 0.0004 | | U | 0.0067 | 0.0004 |
| m,p-Xylene | 1.2 (TOTAL) | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Methylene chloride | 0.1 | | U | 0.0016 | 0.0008 | | U | 0.0016 | 0.0008 |
| n-Butylbenzene | NL | | M | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| n-Propylbenzene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Naphthalene | 13 | | M | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| o-Xylene | 1.2 (TOTAL) | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| p-Isopropyltoluene | NL | | M | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| sec-Butylbenzene | NL | | M | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Styrene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| tert-Butylbenzene | NL | | M | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Tetrachloroethene | 1.4 | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Toluene | 1.5 | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trans-1,2-Dichloroethene | 0.3 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| trans-1,3-Dichloropropene | NL | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| Trichloroethene | 0.7 | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| Trichlorofluoromethane | NL | | U | 0.0032 | 0.0008 | | U | 0.0032 | 0.0008 |
| Vinyl chloride | 0.2 | | U | 0.0072 | 0.0008 | | U | 0.0072 | 0.0008 |

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-03 L0105181-09 5/12/01 | | | | PAFB-SD-A3-04 L0105181-10 5/12/01 | | | |
|---|--|---|------|--------|--------|---|------|--------|--------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| % Solids | NA | 84% | | | | 85% | | | |
| 1,1,1,2-Tetrachloroethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,1,1-Trichloroethane | 0.8 | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| 1,1,2,2-Tetrachloroethane | 0.6 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,1,2-Trichloroethane | 6 | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,1-Dichloroethane | 0.2 | | U | 0.0017 | 0.0008 | | U | 0.0017 | 0.0008 |
| 1,1-Dichloroethene | 0.4 | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| 1,1-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,2,3-Trichlorobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,2,3-Trichloropropane | 0.4 | | U | 0.016 | 0.0005 | | U | 0.016 | 0.0005 |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2,4-Trimethylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| 1,2-Dibromo-3-chloropropane | NL | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| 1,2-Dibromoethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2-Dichloroethane | 0.1 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichloropropane | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,3,5-Trimethylbenzene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| 1,3-Dichloropropane | 0.3 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1-Chlorohexane | NL | | U | 0.0024 | 0.0000 | | U | 0.0024 | 0.0000 |
| 2,2-Dichloropropane | NL | | U | 0.016 | 0.0004 | | U | 0.016 | 0.0004 |
| 2-Butanone (MEK) | 0.3 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 2-Chlorotoluene | NL | | U | 0.002 | 0.0004 | | U | 0.002 | 0.0004 |
| 2-Hexanone | NL | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 4-Chlorotoluene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 4-Methyl-2-pentanone (MIBK) | 1 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Acetone | 0.2 | 0.00458 | | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Benzene | 0.06 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Bromobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromochloromethane | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromodichloromethane | NL | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| Bromoform | NL | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| Bromomethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Carbon tetrachloride | 0.6 | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Chlorobenzene | 1.7 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloroethane | 1.9 | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Chloroform | 0.3 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloromethane | NL | | U | 0.0059 | 0.0017 | | U | 0.0059 | 0.0017 |
| cis-1,2-Dichloroethene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| cis-1,3-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Dibromochloromethane | N/a | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Dibromomethane | NL | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Dichlorodifluoromethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Ethylbenzene | 5.5 | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Hexachlorobutadiene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| Isopropylbenzene | NL | | U | 0.0067 | 0.0004 | | U | 0.0067 | 0.0004 |
| m-,p-Xylene | 1.2 (TOTAL) | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Methylene chloride | 0.1 | | U | 0.0016 | 0.0008 | | U | 0.0016 | 0.0008 |
| n-Butylbenzene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| n-Propylbenzene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Naphthalene | 13 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| o-Xylene | 1.2 (TOTAL) | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| p-Isopropyltoluene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| sec-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Styrene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| tert-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Tetrachloroethene | 1.4 | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Toluene | 1.5 | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trans-1,2-Dichloroethene | 0.3 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| trans-1,3-Dichloropropene | NL | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| Trichloroethene | 0.7 | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| Trichlorofluoromethane | NL | | U | 0.0032 | 0.0008 | | U | 0.0032 | 0.0008 |
| Vinyl chloride | 0.2 | | U | 0.0072 | 0.0008 | | U | 0.0072 | 0.0008 |

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-05 L0105181-11 5/12/01 | | | | PAFB-SD-A3-06A (FD2) ¹ L0105181-12 5/12/01 | | | |
|---|--|---|------|--------|--------|---|------|--------|--------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| % Solids | NA | 83% | | | | 84% | | | |
| 1,1,1,2-Tetrachloroethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,1,1-Trichloroethane | 0.8 | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| 1,1,2,2-Tetrachloroethane | 0.6 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,1,2-Trichloroethane | 6 | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,1-Dichloroethane | 0.2 | | U | 0.0017 | 0.0008 | | U | 0.0017 | 0.0008 |
| 1,1-Dichloroethene | 0.4 | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| 1,1-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| 1,2,3-Trichlorobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| 1,2,3-Trichloropropane | 0.4 | | U | 0.016 | 0.0005 | | U | 0.016 | 0.0005 |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2,4-Trimethylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| 1,2-Dibromo-3-chloropropane | NL | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| 1,2-Dibromoethane | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,2-Dichloroethane | 0.1 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,2-Dichloropropane | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,3,5-Trimethylbenzene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| 1,3-Dichloropropane | 0.3 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| 1-Chlorohexane | NL | | U | 0.0024 | 0.0000 | | U | 0.0024 | 0.0000 |
| 2,2-Dichloropropane | NL | | U | 0.016 | 0.0004 | | U | 0.016 | 0.0004 |
| 2-Butanone (MEK) | 0.3 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 2-Chlorotoluene | NL | | U | 0.002 | 0.0004 | | U | 0.002 | 0.0004 |
| 2-Hexanone | NL | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| 4-Chlorotoluene | NL | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| 4-Methyl-2-pentanone (MIBK) | 1 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Acetone | 0.2 | | U | 0.008 | 0.0021 | | U | 0.008 | 0.0021 |
| Benzene | 0.06 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Bromobenzene | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromochloromethane | NL | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Bromodichloromethane | NL | | U | 0.0033 | 0.0004 | | U | 0.0033 | 0.0004 |
| Bromoform | NL | | U | 0.0051 | 0.0004 | | U | 0.0051 | 0.0004 |
| Bromomethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Carbon tetrachloride | 0.6 | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Chlorobenzene | 1.7 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloroethane | 1.9 | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Chloroform | 0.3 | | U | 0.0017 | 0.0004 | | U | 0.0017 | 0.0004 |
| Chloromethane | NL | | U | 0.0059 | 0.0017 | | U | 0.0059 | 0.0017 |
| cis-1,2-Dichloroethene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| cis-1,3-Dichloropropene | NL | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Dibromochloromethane | N/a | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Dibromomethane | NL | | U | 0.0066 | 0.0004 | | U | 0.0066 | 0.0004 |
| Dichlorodifluoromethane | NL | | U | 0.0042 | 0.0008 | | U | 0.0042 | 0.0008 |
| Ethylbenzene | 5.5 | | U | 0.0025 | 0.0004 | | U | 0.0025 | 0.0004 |
| Hexachlorobutadiene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| Isopropylbenzene | NL | | U | 0.0067 | 0.0004 | | U | 0.0067 | 0.0004 |
| m-,p-Xylene | 1.2 (TOTAL) | | U | 0.004 | 0.0004 | | U | 0.004 | 0.0004 |
| Methylene chloride | 0.1 | | U | 0.0016 | 0.0008 | | U | 0.0016 | 0.0008 |
| n-Butylbenzene | NL | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| n-Propylbenzene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| Naphthalene | 13 | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| o-Xylene | 1.2 (TOTAL) | | U | 0.0042 | 0.0004 | | U | 0.0042 | 0.0004 |
| p-Isopropyltoluene | NL | | U | 0.0048 | 0.0004 | | U | 0.0048 | 0.0004 |
| sec-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Styrene | NL | | U | 0.0016 | 0.0004 | | U | 0.0016 | 0.0004 |
| tert-Butylbenzene | NL | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Tetrachloroethene | 1.4 | | U | 0.0056 | 0.0004 | | U | 0.0056 | 0.0004 |
| Toluene | 1.5 | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| trans-1,2-Dichloroethene | 0.3 | | U | 0.0024 | 0.0004 | | U | 0.0024 | 0.0004 |
| trans-1,3-Dichloropropene | NL | | U | 0.0040 | 0.0004 | | U | 0.0040 | 0.0004 |
| Trichloroethene | 0.7 | | U | 0.0080 | 0.0004 | | U | 0.0080 | 0.0004 |
| Trichlorofluoromethane | NL | | U | 0.0032 | 0.0008 | | U | 0.0032 | 0.0008 |
| Vinyl chloride | 0.2 | | U | 0.0072 | 0.0008 | | U | 0.0072 | 0.0008 |

Table 1A
Analytical Results for Volatiles by Method 8260B
(mg/kg)

8/10/01

| Field Sample ID: Lab Number: analysis date: | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-06B (FD2) ¹ L0105181-13 5/12/01 | | | | TRIP BLANK L0105181-14 5/11/01 | | | |
|---|--|---|--------|--------------------------|------|--------------------------------------|------|---------------|---------------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL (ug/L) | MDL (ug/L) |
| | | Analyte | | Objective ⁽²⁾ | | Result | QUAL | RDL (ug/L) | MDL (ug/L) |
| % Solids | NA | 83% | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NL | U | 0.0024 | 0.0004 | U | 0.5 | 0.25 | | |
| 1,1,1-Trichloroethane | 0.8 | U | 0.0033 | 0.0004 | U | 0.8 | 0.25 | | |
| 1,1,2,2-Tetrachloroethane | 0.6 | U | 0.0017 | 0.0004 | U | 0.8 | 0.13 | | |
| 1,1,2-Trichloroethane | 6 | U | 0.004 | 0.0004 | U | 1 | 0.25 | | |
| 1,1-Dichloroethane | 0.2 | U | 0.0017 | 0.0008 | U | 0.5 | 0.13 | | |
| 1,1-Dichloroethene | 0.4 | U | 0.0051 | 0.0004 | U | 1.2 | 0.5 | | |
| 1,1-Dichloropropene | NL | U | 0.004 | 0.0004 | U | 1 | 0.25 | | |
| 1,2,3-Trichlorobenzene | NL | U | 0.0017 | 0.0004 | U | 1 | 0.13 | | |
| 1,2,3-Trichloropropane | 0.4 | U | 0.016 | 0.0005 | U | 3.2 | 0.75 | | |
| 1,2,4-Trichlorobenzene | 3.4 | U | 0.0016 | 0.0004 | U | 2 | 0.2 | | |
| 1,2,4-Trimethylbenzene | NL | U | 0.0056 | 0.0004 | U | 1.3 | 0.25 | | |
| 1,2-Dibromo-3-chloropropane | NL | U | 0.0080 | 0.0004 | U | 2.6 | 1 | | |
| 1,2-Dibromoethane | NL | U | 0.0024 | 0.0004 | U | 0.6 | 0.25 | | |
| 1,2-Dichlorobenzene | 7.9 | U | 0.0016 | 0.0004 | U | 1 | 0.13 | | |
| 1,2-Dichloroethane | 0.1 | U | 0.0024 | 0.0004 | U | 0.7 | 0.25 | | |
| 1,2-Dichloropropane | NL | U | 0.0016 | 0.0004 | U | 0.5 | 0.13 | | |
| 1,3,5-Trimethylbenzene | NL | U | 0.0024 | 0.0004 | U | 0.5 | 0.25 | | |
| 1,3-Dichlorobenzene | 1.6 | U | 0.0048 | 0.0004 | U | 1.2 | 0.25 | | |
| 1,3-Dichloropropane | 0.3 | U | 0.0016 | 0.0004 | U | 0.5 | 0.2 | | |
| 1,4-Dichlorobenzene | 8.5 | U | 0.0016 | 0.0004 | U | 1 | 0.13 | | |
| 1-Chlorohexane | NL | U | 0.0024 | 0.0000 | U | 1 | 0.13 | | |
| 2,2-Dichloropropane | NL | U | 0.016 | 0.0004 | U | 3.5 | 0.25 | | |
| 2-Butanone (MEK) | 0.3 | U | 0.008 | 0.0021 | U | 10 | 2.5 | | |
| 2-Chlorotoluene | NL | U | 0.002 | 0.0004 | U | 1 | 0.13 | | |
| 2-Hexanone | NL | U | 0.008 | 0.0021 | U | 10 | 2.5 | | |
| 4-Chlorotoluene | NL | U | 0.0024 | 0.0004 | U | 0.6 | 0.25 | | |
| 4-Methyl-2-pentanone (MIBK) | 1 | U | 0.008 | 0.0021 | U | 10 | 2.5 | | |
| Acetone | 0.2 | U | 0.008 | 0.0021 | U | 10 | 2.5 | | |
| Benzene | 0.06 | U | 0.0016 | 0.0004 | U | 0.5 | 0.13 | | |
| Bromobenzene | NL | U | 0.0017 | 0.0004 | U | 1 | 0.13 | | |
| Bromochloromethane | NL | U | 0.0017 | 0.0004 | U | 0.5 | 0.2 | | |
| Bromodichloromethane | NL | U | 0.0033 | 0.0004 | U | 1 | 0.25 | | |
| Bromoform | NL | U | 0.0051 | 0.0004 | U | 1.2 | 0.54 | | |
| Bromomethane | NL | U | 0.0042 | 0.0008 | U | 1.1 | 0.5 | | |
| Carbon tetrachloride | 0.6 | U | 0.0066 | 0.0004 | U | 2.1 | 0.25 | | |
| Chlorobenzene | 1.7 | U | 0.0017 | 0.0004 | U | 0.5 | 0.13 | | |
| Chloroethane | 1.9 | U | 0.0042 | 0.0008 | U | 1 | 0.5 | | |
| Chloroform | 0.3 | U | 0.0017 | 0.0004 | U | 0.5 | 0.13 | | |
| Chloromethane | NL | U | 0.0059 | 0.0017 | U | 1.3 | 0.25 | | |
| cis-1,2-Dichloroethene | NL | U | 0.0048 | 0.0004 | U | 1.2 | 0.25 | | |
| cis-1,3-Dichloropropene | NL | U | 0.004 | 0.0004 | U | 1 | 0.25 | | |
| Dibromochloromethane | N/a | U | 0.0025 | 0.0004 | U | 0.6 | 0.25 | | |
| Dibromomethane | NL | U | 0.0066 | 0.0004 | U | 2.4 | 0.25 | | |
| Dichlorodifluoromethane | NL | U | 0.0042 | 0.0008 | U | 1 | 0.25 | | |
| Ethylbenzene | 5.5 | U | 0.0025 | 0.0004 | U | 1 | 0.25 | | |
| Hexachlorobutadiene | NL | U | 0.0042 | 0.0004 | U | 1.1 | 0.25 | | |
| Isopropylbenzene | NL | U | 0.0067 | 0.0004 | U | 0.5 | 0.25 | | |
| m,p-Xylene | 1.2 (TOTAL) | U | 0.004 | 0.0004 | U | 1 | 0.5 | | |
| Methylene chloride | 0.1 | U | 0.0016 | 0.0008 | 0.74 | F | 2 | 0.25 | |
| n-Butylbenzene | NL | U | 0.0042 | 0.0004 | U | 1.1 | 0.25 | | |
| n-Propylbenzene | NL | U | 0.0016 | 0.0004 | U | 1 | 0.13 | | |
| Naphthalene | 13 | U | 0.0016 | 0.0004 | U | 1 | 0.2 | | |
| o-Xylene | 1.2 (TOTAL) | U | 0.0042 | 0.0004 | U | 1.1 | 0.25 | | |
| p-Isopropyltoluene | NL | U | 0.0048 | 0.0004 | U | 1.2 | 0.25 | | |
| sec-Butylbenzene | NL | U | 0.0056 | 0.0004 | U | 1.3 | 0.25 | | |
| Styrene | NL | U | 0.0016 | 0.0004 | U | 1 | 0.13 | | |
| tert-Butylbenzene | NL | U | 0.0056 | 0.0004 | U | 1.4 | 0.25 | | |
| Tetrachloroethene | 1.4 | U | 0.0056 | 0.0004 | U | 1.4 | 0.25 | | |
| Toluene | 1.5 | U | 0.0040 | 0.0004 | U | 1.1 | 0.25 | | |
| trans-1,2-Dichloroethene | 0.3 | U | 0.0024 | 0.0004 | U | 0.6 | 0.25 | | |
| trans-1,3-Dichloropropene | NL | U | 0.0040 | 0.0004 | U | 1 | 0.5 | | |
| Trichloroethene | 0.7 | U | 0.0080 | 0.0004 | U | 1 | 0.25 | | |
| Trichlorofluoromethane | NL | U | 0.0032 | 0.0008 | U | 1 | 0.25 | | |
| Vinyl chloride | 0.2 | U | 0.0072 | 0.0008 | U | 1.1 | 0.25 | | |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A1-01 L0105181-01 5/18/01 | | | | PAFB-SD-A1-01 (Re-analysis) L0105181-01 5/21/01 | | | |
|--|--|---|------|------|-------|---|------|------|-------|
| | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| | | Analyte | | | | Analyte | | | |
| % Solids | NA | 86% | | | | 86% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 1.6 | 0.066 | | U | 1.4 | 0.066 |
| 1,2-Dichlorobenzene | 7.9 | | U | 1.6 | 0.066 | | U | 1.4 | 0.066 |
| 1,3-Dichlorobenzene | 1.6 | | U | 1.6 | 0.064 | | U | 1.4 | 0.064 |
| 1,4-Dichlorobenzene | 8.5 | | U | 1.6 | 0.068 | | U | 1.4 | 0.068 |
| 2,4,5-Trichlorophenol | 0.1 | | U | 7.7 | 0.094 | | U | 6.6 | 0.094 |
| 2,4,6-Trichlorophenol | NL | | U | 0.7 | 0.084 | | U | 0.6 | 0.084 |
| 2,4-Dichlorophenol | 0.4 | | U | 0.7 | 0.082 | | U | 0.6 | 0.082 |
| 2,4-Dimethylphenol | NL | | U | 0.7 | 0.074 | | U | 0.6 | 0.074 |
| 2,4-Dinitrophenol | 0.2 or MDL | | U | 7.7 | 0.22 | | U | 6.6 | 0.22 |
| 2,4-Dinitrotoluene | 1 | | U | 1.6 | 0.084 | | U | 1.4 | 0.084 |
| 2,6-Dinitrotoluene | 1 | | U | 1.6 | 0.08 | | U | 1.4 | 0.08 |
| 2-Chloronaphthalene | NL | | R | 1.6 | 0.08 | | R | 1.4 | 0.08 |
| 2-Chlorophenol | 0.8 | | U | 0.7 | 0.068 | | U | 0.6 | 0.068 |
| 2-Methylnaphthalene | 36.4 | | U | 1.6 | 0.074 | | U | 1.4 | 0.074 |
| 2-Methylphenol | 0.1 or MDL | | U | 0.7 | 0.126 | | U | 0.6 | 0.126 |
| 2-Nitroaniline | 0.43 or MDL | | U | 7.7 | 0.092 | | U | 6.6 | 0.092 |
| 2-Nitrophenol | 0.33 or MDL | | U | 0.7 | 0.064 | | U | 0.6 | 0.064 |
| 3,3'-Dichlorobenzidine | NL | | U | 3 | 0.3 | | U | 2.6 | 0.3 |
| 3-Nitroaniline | 0.5 or MDL | | U | 7.7 | 0.144 | | U | 6.6 | 0.144 |
| 4,6-Dinitro-2-methylphenol | NL | | U | 7.7 | 0.072 | | U | 6.6 | 0.072 |
| 4-Bromophenyl-phenylether | NL | | U | 1.6 | 0.076 | | U | 1.4 | 0.076 |
| 4-Chloro-3-methylphenol | 0.24 or MDL | | U | 3 | 0.092 | | U | 2.6 | 0.092 |
| 4-Chloroaniline | 0.22 or MDL | | U | 3 | 0.106 | | U | 2.6 | 0.106 |
| 4-Chlorophenyl-phenyl ether | NL | | U | 1.6 | 0.088 | | U | 1.4 | 0.088 |
| 4-Methylphenol | 0.9 | | U | 0.7 | 0.082 | | U | 0.6 | 0.082 |
| 4-Nitroaniline | NL | | U | 7.7 | 0.08 | | U | 6.6 | 0.08 |
| p-Nitrophenol | 0.1 or MDL | | U | 3.7 | 0.114 | | U | 3.2 | 0.114 |
| Acenaphthene | 50 | | U | 1.6 | 0.084 | | U | 1.4 | 0.084 |
| Acenaphthylene | 41 | 0.19 | F | 1.6 | 0.084 | 0.211 | F | 1.4 | 0.084 |
| Anthracene | 50 | 0.108 | F | 1.6 | 0.07 | 0.114 | F | 1.4 | 0.07 |
| Benzo(a)anthracene | 0.224 or MDL | 0.836 | F | 1.6 | 0.058 | 0.837 | F | 1.4 | 0.058 |
| Benzo(a)pyrene | 0.061 or MDL | 0.836 | R | 1.6 | 0.052 | 0.848 | R | 1.4 | 0.052 |
| Benzo(b)fluoranthene | 1.1 | 1.3 | R | 1.6 | 0.056 | 1.27 | R | 1.4 | 0.056 |
| Benzo(g,h,i)Perylene | 50 | 0.13 | R | 1.6 | 0.074 | 0.199 | R | 1.4 | 0.074 |
| Benzo(k)fluoranthene | 1.1 | 0.803 | R | 1.6 | 0.086 | 0.75 | R | 1.4 | 0.086 |
| Benzoic acid | NL | | U | 3.7 | 0.04 | | U | 3.2 | 0.04 |
| Benzyl alcohol | NL | | U | 3 | 0.12 | | U | 2.6 | 0.12 |
| bis(2-Chloroethoxy)Methane | NL | | U | 1.6 | 0.094 | | U | 1.4 | 0.094 |
| bis(2-Chloroethyl)ether | NL | | U | 1.6 | 0.082 | | U | 1.4 | 0.082 |
| bis(2-Chloroisopropyl)ether | NL | | U | 1.6 | 0.082 | | U | 1.4 | 0.082 |
| bis(2-Ethylhexyl)phthalate | 50 | | U | 1.6 | 0.078 | | U | 1.4 | 0.078 |
| Butylbenzylphthalate | 50 | | U | 1.6 | 0.062 | | U | 1.4 | 0.062 |
| Chrysene | 0.4 | 1.01 | F | 1.6 | 0.082 | 1.02 | F | 1.4 | 0.082 |
| Di-n-butylphthalate | 8.1 | | U | 1.6 | 0.062 | | U | 1.4 | 0.062 |
| Di-n-octylphthalate | 50 | | R | 1.6 | 0.062 | | R | 1.4 | 0.062 |
| Dibenzo(a,h)anthracene | 0.014 or MDL | | U | 1.6 | 0.078 | | R | 1.4 | 0.078 |
| Dibenzofuran | 6.2 | | U | 1.6 | 0.086 | | U | 1.4 | 0.086 |
| Diethylphthalate | 7.1 | | U | 1.6 | 0.098 | | U | 1.4 | 0.098 |
| Dimethylphthalate | 2 | | U | 1.6 | 0.092 | | U | 1.4 | 0.092 |
| Fluoranthene | 50 | 1.73 | | 1.6 | 0.056 | 1.79 | | 1.4 | 0.056 |
| Fluorene | 50 | | U | 1.6 | 0.088 | | U | 1.4 | 0.088 |
| Hexachlorobenzene | 0.41 | | U | 1.6 | 0.08 | | U | 1.4 | 0.08 |
| Hexachlorobutadiene | NL | | U | 1.6 | 0.074 | | U | 1.4 | 0.074 |
| Hexachlorocyclopentadiene | NL | | U | 1.6 | 0.174 | | U | 1.4 | 0.174 |
| Hexachloroethane | NL | | U | 1.6 | 0.066 | | U | 1.4 | 0.066 |
| Indeno(1,2,3-cd)pyrene | 3.2 | 0.194 | R | 1.6 | 0.072 | 0.254 | R | 1.4 | 0.072 |
| Isophorone | 4.4 | | U | 1.6 | 0.086 | | U | 1.4 | 0.086 |
| n-Nitrosodiphenylamine | NL | | U | 1.6 | 0.096 | | U | 1.4 | 0.096 |
| n-Nitroso-di-n-propylamine | NL | | U | 1.6 | 0.07 | | U | 1.4 | 0.07 |
| Naphthalene | 13 | | U | 1.6 | 0.072 | | U | 1.4 | 0.072 |
| Nitrobenzene | 0.2 or MDL | | U | 1.6 | 0.068 | | U | 1.4 | 0.068 |
| Pentachlorophenol | 1.0 or MDL | | U | 7.7 | 0.04 | | U | 6.6 | 0.04 |
| Phenanthrene | 50 | 0.883 | F | 1.6 | 0.086 | 0.902 | F | 1.4 | 0.086 |
| Phenol | 0.03 or MDL | | U | 0.7 | 0.064 | | U | 0.6 | 0.064 |
| Pyrene | 50 | 1.98 | | 1.6 | 0.060 | 1.96 | | 1.4 | 0.060 |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A1-02 (FD1) ⁽¹⁾ | | | | PAFB-SD-A1-02B (FD1) ⁽¹⁾ | | | |
|--|--|------------------------------------|------|------|-------|-------------------------------------|------|------|-------|
| | | L0105181-02 | | | | L0105181-03 | | | |
| | | 5/18/01 | | | | 5/18/01 | | | |
| Analyte | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| % Solids | NA | 79% | | | | 93% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.7 | 0.032 | | U | 0.7 | 0.032 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| 2,4,5-Trichlorophenol | 0.1 | | U | 3.3 | 0.047 | | U | 3.3 | 0.047 |
| 2,4,6-Trichlorophenol | NL | | U | 0.3 | 0.042 | | U | 0.3 | 0.042 |
| 2,4-Dichlorophenol | 0.4 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 2,4-Dimethylphenol | NL | | U | 0.3 | 0.037 | | U | 0.3 | 0.037 |
| 2,4-Dinitrophenol | 0.2 or MDL | | U | 3.3 | 0.11 | | U | 3.3 | 0.11 |
| 2,4-Dinitrotoluene | 1 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| 2,6-Dinitrotoluene | 1 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| 2-Chloronaphthalene | NL | | R | 0.7 | 0.04 | | R | 0.7 | 0.04 |
| 2-Chlorophenol | 0.8 | | U | 0.3 | 0.034 | | U | 0.3 | 0.034 |
| 2-Methylnaphthalene | 36.4 | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| 2-Methylphenol | 0.1 or MDL | | U | 0.3 | 0.063 | | U | 0.3 | 0.063 |
| 2-Nitroaniline | 0.43 or MDL | | U | 3.3 | 0.046 | | U | 3.3 | 0.046 |
| 2-Nitrophenol | 0.33 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| 3,3'-Dichlorobenzidine | NL | | U | 1.3 | 0.15 | | U | 1.3 | 0.15 |
| 3-Nitroaniline | 0.5 or MDL | | U | 3.3 | 0.072 | | U | 3.3 | 0.072 |
| 4,6-Dinitro-2-methylphenol | NL | | U | 3.3 | 0.036 | | U | 3.3 | 0.036 |
| 4-Bromophenyl-phenylether | NL | | U | 0.7 | 0.038 | | U | 0.7 | 0.038 |
| 4-Chloro-3-methylphenol | 0.24 or MDL | | U | 1.3 | 0.046 | | U | 1.3 | 0.046 |
| 4-Chloroaniline | 0.22 or MDL | | U | 1.3 | 0.053 | | U | 1.3 | 0.053 |
| 4-Chlorophenyl-phenyl ether | NL | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| 4-Methylphenol | 0.9 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 4-Nitroaniline | NL | | U | 3.3 | 0.04 | | U | 3.3 | 0.04 |
| p-Nitrophenol | 0.1 or MDL | | U | 1.6 | 0.057 | | U | 1.6 | 0.057 |
| Acenaphthene | 50 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Acenaphthylene | 41 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Anthracene | 50 | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Benzo(a)anthracene | 0.224 or MDL | | U | 0.7 | 0.029 | | U | 0.7 | 0.029 |
| Benzo(a)pyrene | 0.061 or MDL | | U | 0.7 | 0.026 | | U | 0.7 | 0.026 |
| Benzo(b)fluoranthene | 1.1 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Benzo(g,h,i)Perylene | 50 | | R | 0.7 | 0.037 | | R | 0.7 | 0.037 |
| Benzo(k)fluoranthene | 1.1 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Benzoic acid | NL | | U | 1.6 | 0.02 | | U | 1.6 | 0.02 |
| Benzyl alcohol | NL | | U | 1.3 | 0.06 | | U | 1.3 | 0.06 |
| bis(2-Chloroethoxy)Methane | NL | | U | 0.7 | 0.047 | | U | 0.7 | 0.047 |
| bis(2-Chloroethyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Chloroisopropyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Ethylhexyl)phthalate | 50 | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Butylbenzylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Chrysene | 0.4 | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| Di-n-butylphthalate | 8.1 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Di-n-octylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Dibenzo(a,h)anthracene | 0.014 or MDL | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Dibenzofuran | 6.2 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Diethylphthalate | 7.1 | | U | 0.7 | 0.049 | | U | 0.7 | 0.049 |
| Dimethylphthalate | 2 | | U | 0.7 | 0.046 | | U | 0.7 | 0.046 |
| Fluoranthene | 50 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Fluorene | 50 | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| Hexachlorobenzene | 0.41 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| Hexachlorobutadiene | NL | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| Hexachlorocyclopentadiene | NL | | U | 0.7 | 0.087 | | U | 0.7 | 0.087 |
| Hexachloroethane | NL | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| Indeno(1,2,3-cd)pyrene | 3.2 | | R | 0.7 | 0.036 | | R | 0.7 | 0.036 |
| Isophorone | 4.4 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| n-Nitrosodiphenylamine | NL | | U | 0.7 | 0.048 | | U | 0.7 | 0.048 |
| n-Nitroso-di-n-propylamine | NL | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Naphthalene | 13 | | U | 0.7 | 0.036 | | U | 0.7 | 0.036 |
| Nitrobenzene | 0.2 or MDL | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| Pentachlorophenol | 1.0 or MDL | | U | 3.3 | 0.02 | | U | 3.3 | 0.02 |
| Phenanthrene | 50 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Phenol | 0.03 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| Pyrene | 50 | | U | 0.7 | 0.03 | | U | 0.7 | 0.03 |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A1-03 L0105181-04 5/18/01 | | | | PAFB-SD-A2-01 L0105181-05 5/18/01 | | | |
|--|--|---|------|------|-------|---|------|------|-------|
| | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| % Solids | NA | 77% | | | | 97% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.7 | 0.032 | | U | 0.7 | 0.032 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| 2,4,5-Trichlorophenol | 0.1 | | U | 3.3 | 0.047 | | U | 3.3 | 0.047 |
| 2,4,6-Trichlorophenol | NL | | U | 0.3 | 0.042 | | U | 0.3 | 0.042 |
| 2,4-Dichlorophenol | 0.4 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 2,4-Dimethylphenol | NL | | U | 0.3 | 0.037 | | U | 0.3 | 0.037 |
| 2,4-Dinitrophenol | 0.2 or MDL | | U | 3.3 | 0.11 | | U | 3.3 | 0.11 |
| 2,4-Dinitrotoluene | 1 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| 2,6-Dinitrotoluene | 1 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| 2-Chloronaphthalene | NL | | R | 0.7 | 0.04 | | R | 0.7 | 0.04 |
| 2-Chlorophenol | 0.8 | | U | 0.3 | 0.034 | | U | 0.3 | 0.034 |
| 2-Methylnaphthalene | 36.4 | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| 2-Methylphenol | 0.1 or MDL | | U | 0.3 | 0.063 | | U | 0.3 | 0.063 |
| 2-Nitroaniline | 0.43 or MDL | | U | 3.3 | 0.046 | | U | 3.3 | 0.046 |
| 2-Nitrophenol | 0.33 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| 3,3'-Dichlorobenzidine | NL | | U | 1.3 | 0.15 | | U | 1.3 | 0.15 |
| 3-Nitroaniline | 0.5 or MDL | | U | 3.3 | 0.072 | | U | 3.3 | 0.072 |
| 4,6-Dinitro-2-methylphenol | NL | | U | 3.3 | 0.036 | | U | 3.3 | 0.036 |
| 4-Bromophenyl-phenylether | NL | | U | 0.7 | 0.038 | | U | 0.7 | 0.038 |
| 4-Chloro-3-methylphenol | 0.24 or MDL | | U | 1.3 | 0.046 | | U | 1.3 | 0.046 |
| 4-Chloroaniline | 0.22 or MDL | | U | 1.3 | 0.053 | | U | 1.3 | 0.053 |
| 4-Chlorophenyl-phenyl ether | NL | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| 4-Methylphenol | 0.9 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 4-Nitroaniline | NL | | U | 3.3 | 0.04 | | U | 3.3 | 0.04 |
| p-Nitrophenol | 0.1 or MDL | | U | 1.6 | 0.057 | | U | 1.6 | 0.057 |
| Acenaphthene | 50 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Acenaphthylene | 41 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Anthracene | 50 | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Benzo(a)anthracene | 0.224 or MDL | | U | 0.7 | 0.029 | | U | 0.7 | 0.029 |
| Benzo(a)pyrene | 0.061 or MDL | | U | 0.7 | 0.026 | | U | 0.7 | 0.026 |
| Benzo(b)fluoranthene | 1.1 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Benzo(g,h,i)Perylene | 50 | | R | 0.7 | 0.037 | | R | 0.7 | 0.037 |
| Benzo(k)fluoranthene | 1.1 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Benzoic acid | NL | | U | 1.6 | 0.02 | | U | 1.6 | 0.02 |
| Benzyl alcohol | NL | | U | 1.3 | 0.06 | | U | 1.3 | 0.06 |
| bis(2-Chloroethoxy)Methane | NL | | U | 0.7 | 0.047 | | U | 0.7 | 0.047 |
| bis(2-Chloroethyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Chloroisopropyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Ethylhexyl)phthalate | 50 | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Butylbenzylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Chrysene | 0.4 | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| Di-n-butylphthalate | 8.1 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Di-n-octylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Dibenzo(a,h)anthracene | 0.014 or MDL | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Dibenzofuran | 6.2 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Diethylphthalate | 7.1 | | U | 0.7 | 0.049 | | U | 0.7 | 0.049 |
| Dimethylphthalate | 2 | | U | 0.7 | 0.046 | | U | 0.7 | 0.046 |
| Fluoranthene | 50 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Fluorene | 50 | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| Hexachlorobenzene | 0.41 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| Hexachlorobutadiene | NL | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| Hexachlorocyclopentadiene | NL | | U | 0.7 | 0.087 | | U | 0.7 | 0.087 |
| Hexachloroethane | NL | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| Indeno(1,2,3-cd)pyrene | 3.2 | | R | 0.7 | 0.036 | | R | 0.7 | 0.036 |
| Isophorone | 4.4 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| n-Nitrosodiphenylamine | NL | | U | 0.7 | 0.048 | | U | 0.7 | 0.048 |
| n-Nitroso-di-n-propylamine | NL | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Naphthalene | 13 | | U | 0.7 | 0.036 | | U | 0.7 | 0.036 |
| Nitrobenzene | 0.2 or MDL | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| Pentachlorophenol | 1.0 or MDL | | U | 3.3 | 0.02 | | U | 3.3 | 0.02 |
| Phenanthrene | 50 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Phenol | 0.03 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| Pyrene | 50 | | U | 0.7 | 0.03 | | U | 0.7 | 0.03 |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A2-02 L0105181-06 5/18/01 | | | | PAFB-SD-A3-01 L0105181-07 5/18/01 | | | |
|--|--|---|------|------|-------|---|------|------|-------|
| | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| % Solids | NA | 99% | | | | 85% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.7 | 0.032 | | U | 0.7 | 0.032 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| 2,4,5-Trichlorophenol | 0.1 | | U | 3.3 | 0.047 | | U | 3.3 | 0.047 |
| 2,4,6-Trichlorophenol | NL | | U | 0.3 | 0.042 | | U | 0.3 | 0.042 |
| 2,4-Dichlorophenol | 0.4 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 2,4-Dimethylphenol | NL | | U | 0.3 | 0.037 | | U | 0.3 | 0.037 |
| 2,4-Dinitrophenol | 0.2 or MDL | | U | 3.3 | 0.11 | | U | 3.3 | 0.11 |
| 2,4-Dinitrotoluene | 1 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| 2,6-Dinitrotoluene | 1 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| 2-Chloronaphthalene | NL | | R | 0.7 | 0.04 | | R | 0.7 | 0.04 |
| 2-Chlorophenol | 0.8 | | U | 0.3 | 0.034 | | U | 0.3 | 0.034 |
| 2-Methylnaphthalene | 36.4 | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| 2-Methylphenol | 0.1 or MDL | | U | 0.3 | 0.063 | | U | 0.3 | 0.063 |
| 2-Nitroaniline | 0.43 or MDL | | U | 3.3 | 0.046 | | U | 3.3 | 0.046 |
| 2-Nitrophenol | 0.33 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| 3,3'-Dichlorobenzidine | NL | | U | 1.3 | 0.15 | | U | 1.3 | 0.15 |
| 3-Nitroaniline | 0.5 or MDL | | U | 3.3 | 0.072 | | U | 3.3 | 0.072 |
| 4,6-Dinitro-2-methylphenol | NL | | U | 3.3 | 0.036 | | U | 3.3 | 0.036 |
| 4-Bromophenyl-phenylether | NL | | U | 0.7 | 0.038 | | U | 0.7 | 0.038 |
| 4-Chloro-3-methylphenol | 0.24 or MDL | | U | 1.3 | 0.046 | | U | 1.3 | 0.046 |
| 4-Chloroaniline | 0.22 or MDL | | U | 1.3 | 0.053 | | U | 1.3 | 0.053 |
| 4-Chlorophenyl-phenyl ether | NL | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| 4-Methylphenol | 0.9 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 4-Nitroaniline | NL | | U | 3.3 | 0.04 | | U | 3.3 | 0.04 |
| p-Nitrophenol | 0.1 or MDL | | U | 1.6 | 0.057 | | U | 1.6 | 0.057 |
| Acenaphthene | 50 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Acenaphthylene | 41 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Anthracene | 50 | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Benzo(a)anthracene | 0.224 or MDL | | U | 0.7 | 0.029 | | U | 0.7 | 0.029 |
| Benzo(a)pyrene | 0.061 or MDL | | U | 0.7 | 0.026 | | U | 0.7 | 0.026 |
| Benzo(b)fluoranthene | 1.1 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Benzo(g,h,i)Perylene | 50 | | R | 0.7 | 0.037 | | R | 0.7 | 0.037 |
| Benzo(k)fluoranthene | 1.1 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Benzoic acid | NL | | U | 1.6 | 0.02 | | U | 1.6 | 0.02 |
| Benzyl alcohol | NL | | U | 1.3 | 0.06 | | U | 1.3 | 0.06 |
| bis(2-Chloroethoxy)Methane | NL | | U | 0.7 | 0.047 | | U | 0.7 | 0.047 |
| bis(2-Chloroethyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Chloroisopropyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Ethylhexyl)phthalate | 50 | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Butylbenzylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Chrysene | 0.4 | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| Di-n-butylphthalate | 8.1 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Di-n-octylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Dibenzo(a,h)anthracene | 0.014 or MDL | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Dibenzofuran | 6.2 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Diethylphthalate | 7.1 | | U | 0.7 | 0.049 | | U | 0.7 | 0.049 |
| Dimethylphthalate | 2 | | U | 0.7 | 0.046 | | U | 0.7 | 0.046 |
| Fluoranthene | 50 | 0.0323 | F | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Fluorene | 50 | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| Hexachlorobenzene | 0.41 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| Hexachlorobutadiene | NL | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| Hexachlorocyclopentadiene | NL | | U | 0.7 | 0.087 | | U | 0.7 | 0.087 |
| Hexachloroethane | NL | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| Indeno(1,2,3-cd)pyrene | 3.2 | | R | 0.7 | 0.036 | | U | 0.7 | 0.036 |
| Isophorone | 4.4 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| n-Nitrosodiphenylamine | NL | | U | 0.7 | 0.048 | | U | 0.7 | 0.048 |
| n-Nitroso-di-n-propylamine | NL | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Naphthalene | 13 | | U | 0.7 | 0.036 | | U | 0.7 | 0.036 |
| Nitrobenzene | 0.2 or MDL | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| Pentachlorophenol | 1.0 or MDL | | U | 3.3 | 0.02 | | U | 3.3 | 0.02 |
| Phenanthrene | 50 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Phenol | 0.03 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| Pyrene | 50 | | U | 0.7 | 0.03 | | U | 0.7 | 0.03 |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-02 L0105181-08 5/18/01 | | | | PAFB-SD-A3-03 L0105181-09 5/18/01 | | | |
|--|--|---|------|------|-------|---|------|------|-------|
| | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| Analyte | | | | | | | | | |
| % Solids | NA | 83% | | | | 84% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.7 | 0.032 | | U | 0.7 | 0.032 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| 2,4,5-Trichlorophenol | 0.1 | | U | 3.3 | 0.047 | | U | 3.3 | 0.047 |
| 2,4,6-Trichlorophenol | NL | | U | 0.3 | 0.042 | | U | 0.3 | 0.042 |
| 2,4-Dichlorophenol | 0.4 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 2,4-Dimethylphenol | NL | | U | 0.3 | 0.037 | | U | 0.3 | 0.037 |
| 2,4-Dinitrophenol | 0.2 or MDL | | U | 3.3 | 0.11 | | U | 3.3 | 0.11 |
| 2,4-Dinitrotoluene | 1 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| 2,6-Dinitrotoluene | 1 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| 2-Chloronaphthalene | NL | | R | 0.7 | 0.04 | | R | 0.7 | 0.04 |
| 2-Chlorophenol | 0.8 | | U | 0.3 | 0.034 | | U | 0.3 | 0.034 |
| 2-Methylnaphthalene | 36.4 | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| 2-Methylphenol | 0.1 or MDL | | U | 0.3 | 0.063 | | U | 0.3 | 0.063 |
| 2-Nitroaniline | 0.43 or MDL | | U | 3.3 | 0.046 | | U | 3.3 | 0.046 |
| 2-Nitrophenol | 0.33 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| 3,3'-Dichlorobenzidine | NL | | U | 1.3 | 0.15 | | U | 1.3 | 0.15 |
| 3-Nitroaniline | 0.5 or MDL | | U | 3.3 | 0.072 | | U | 3.3 | 0.072 |
| 4,6-Dinitro-2-methylphenol | NL | | U | 3.3 | 0.036 | | U | 3.3 | 0.036 |
| 4-Bromophenyl-phenylether | NL | | U | 0.7 | 0.038 | | U | 0.7 | 0.038 |
| 4-Chloro-3-methylphenol | 0.24 or MDL | | U | 1.3 | 0.046 | | U | 1.3 | 0.046 |
| 4-Chloroaniline | 0.22 or MDL | | U | 1.3 | 0.053 | | U | 1.3 | 0.053 |
| 4-Chlorophenyl-phenyl ether | NL | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| 4-Methylphenol | 0.9 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 4-Nitroaniline | NL | | U | 3.3 | 0.04 | | U | 3.3 | 0.04 |
| p-Nitrophenol | 0.1 or MDL | | U | 1.6 | 0.057 | | U | 1.6 | 0.057 |
| Acenaphthene | 50 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Acenaphthylene | 41 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Anthracene | 50 | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Benzo(a)anthracene | 0.224 or MDL | 0.0307 | F | 0.7 | 0.029 | | U | 0.7 | 0.029 |
| Benzo(a)pyrene | 0.061 or MDL | | U | 0.7 | 0.026 | | U | 0.7 | 0.026 |
| Benzo(b)fluoranthene | 1.1 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Benzo(g,h,i)Perylene | 50 | | R | 0.7 | 0.037 | | R | 0.7 | 0.037 |
| Benzo(k)fluoranthene | 1.1 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Benzoic acid | NL | | U | 1.6 | 0.02 | | U | 1.6 | 0.02 |
| Benzyl alcohol | NL | | U | 1.3 | 0.06 | | U | 1.3 | 0.06 |
| bis(2-Chloroethoxy)Methane | NL | | U | 0.7 | 0.047 | | U | 0.7 | 0.047 |
| bis(2-Chloroethyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Chloroisopropyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Ethylhexyl)phthalate | 50 | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Butylbenzylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Chrysene | 0.4 | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| Di-n-butylphthalate | 8.1 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Di-n-octylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Dibenzo(a,h)anthracene | 0.014 or MDL | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Dibenzofuran | 6.2 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Diethylphthalate | 7.1 | | U | 0.7 | 0.049 | | U | 0.7 | 0.049 |
| Dimethylphthalate | 2 | | U | 0.7 | 0.046 | | U | 0.7 | 0.046 |
| Fluoranthene | 50 | 0.0577 | F | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Fluorene | 50 | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| Hexachlorobenzene | 0.41 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| Hexachlorobutadiene | NL | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| Hexachlorocyclopentadiene | NL | | U | 0.7 | 0.087 | | U | 0.7 | 0.087 |
| Hexachloroethane | NL | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| Indeno(1,2,3-cd)pyrene | 3.2 | | R | 0.7 | 0.036 | | R | 0.7 | 0.036 |
| Isophorone | 4.4 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| n-Nitrosodiphenylamine | NL | | U | 0.7 | 0.048 | | U | 0.7 | 0.048 |
| n-Nitroso-di-n-propylamine | NL | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Naphthalene | 13 | | U | 0.7 | 0.036 | | U | 0.7 | 0.036 |
| Nitrobenzene | 0.2 or MDL | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| Pentachlorophenol | 1.0 or MDL | | U | 3.3 | 0.02 | | U | 3.3 | 0.02 |
| Phenanthrene | 50 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Phenol | 0.03 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| Pyrene | 50 | 0.0458 | F | 0.7 | 0.03 | | U | 0.7 | 0.03 |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-04 L0105181-10 5/18/01 | | | | PAFB-SD-A3-05 L0105181-11 5/18/01 | | | |
|--|--|---|------|------|-------|---|------|------|-------|
| | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| Analyte | | | | | | | | | |
| % Solids | NA | 85% | | | | 83% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,2-Dichlorobenzene | 7.9 | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| 1,3-Dichlorobenzene | 1.6 | | U | 0.7 | 0.032 | | U | 0.7 | 0.032 |
| 1,4-Dichlorobenzene | 8.5 | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| 2,4,5-Trichlorophenol | 0.1 | | U | 3.3 | 0.047 | | U | 3.3 | 0.047 |
| 2,4,6-Trichlorophenol | NL | | U | 0.3 | 0.042 | | U | 0.3 | 0.042 |
| 2,4-Dichlorophenol | 0.4 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 2,4-Dimethylphenol | NL | | U | 0.3 | 0.037 | | U | 0.3 | 0.037 |
| 2,4-Dinitrophenol | 0.2 or MDL | | U | 3.3 | 0.11 | | U | 3.3 | 0.11 |
| 2,4-Dinitrotoluene | 1 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| 2,6-Dinitrotoluene | 1 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| 2-Chloronaphthalene | NL | | R | 0.7 | 0.04 | | R | 0.7 | 0.04 |
| 2-Chlorophenol | 0.8 | | U | 0.3 | 0.034 | | U | 0.3 | 0.034 |
| 2-Methylnaphthalene | 36.4 | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| 2-Methylphenol | 0.1 or MDL | | U | 0.3 | 0.063 | | U | 0.3 | 0.063 |
| 2-Nitroaniline | 0.43 or MDL | | U | 3.3 | 0.046 | | U | 3.3 | 0.046 |
| 2-Nitrophenol | 0.33 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| 3,3'-Dichlorobenzidine | NL | | U | 1.3 | 0.15 | | U | 1.3 | 0.15 |
| 3-Nitroaniline | 0.5 or MDL | | U | 3.3 | 0.072 | | U | 3.3 | 0.072 |
| 4,6-Dinitro-2-methylphenol | NL | | U | 3.3 | 0.036 | | U | 3.3 | 0.036 |
| 4-Bromophenyl-phenylether | NL | | U | 0.7 | 0.038 | | U | 0.7 | 0.038 |
| 4-Chloro-3-methylphenol | 0.24 or MDL | | U | 1.3 | 0.046 | | U | 1.3 | 0.046 |
| 4-Chloroaniline | 0.22 or MDL | | U | 1.3 | 0.053 | | U | 1.3 | 0.053 |
| 4-Chlorophenyl-phenyl ether | NL | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| 4-Methylphenol | 0.9 | | U | 0.3 | 0.041 | | U | 0.3 | 0.041 |
| 4-Nitroaniline | NL | | U | 3.3 | 0.04 | | U | 3.3 | 0.04 |
| p-Nitrophenol | 0.1 or MDL | | U | 1.6 | 0.057 | | U | 1.6 | 0.057 |
| Acenaphthene | 50 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Acenaphthylene | 41 | | U | 0.7 | 0.042 | | U | 0.7 | 0.042 |
| Anthracene | 50 | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Benzo(a)anthracene | 0.224 or MDL | | U | 0.7 | 0.029 | | U | 0.7 | 0.029 |
| Benzo(a)pyrene | 0.061 or MDL | | U | 0.7 | 0.026 | | U | 0.7 | 0.026 |
| Benzo(b)fluoranthene | 1.1 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Benzo(g,h,i)Perylene | 50 | | R | 0.7 | 0.037 | | R | 0.7 | 0.037 |
| Benzo(k)fluoranthene | 1.1 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Benzoic acid | NL | | U | 1.6 | 0.02 | | U | 1.6 | 0.02 |
| Benzyl alcohol | NL | | U | 1.3 | 0.06 | | U | 1.3 | 0.06 |
| bis(2-Chloroethoxy)Methane | NL | | U | 0.7 | 0.047 | | U | 0.7 | 0.047 |
| bis(2-Chloroethyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Chloroisopropyl)ether | NL | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| bis(2-Ethylhexyl)phthalate | 50 | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Butylbenzylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Chrysene | 0.4 | | U | 0.7 | 0.041 | | U | 0.7 | 0.041 |
| Di-n-butylphthalate | 8.1 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Di-n-octylphthalate | 50 | | U | 0.7 | 0.031 | | U | 0.7 | 0.031 |
| Dibenzo(a,h)anthracene | 0.014 or MDL | | U | 0.7 | 0.039 | | U | 0.7 | 0.039 |
| Dibenzofuran | 6.2 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Diethylphthalate | 7.1 | | U | 0.7 | 0.049 | | U | 0.7 | 0.049 |
| Dimethylphthalate | 2 | | U | 0.7 | 0.046 | | U | 0.7 | 0.046 |
| Fluoranthene | 50 | | U | 0.7 | 0.028 | | U | 0.7 | 0.028 |
| Fluorene | 50 | | U | 0.7 | 0.044 | | U | 0.7 | 0.044 |
| Hexachlorobenzene | 0.41 | | U | 0.7 | 0.04 | | U | 0.7 | 0.04 |
| Hexachlorobutadiene | NL | | U | 0.7 | 0.037 | | U | 0.7 | 0.037 |
| Hexachlorocyclopentadiene | NL | | U | 0.7 | 0.087 | | U | 0.7 | 0.087 |
| Hexachloroethane | NL | | U | 0.7 | 0.033 | | U | 0.7 | 0.033 |
| Indeno(1,2,3-cd)pyrene | 3.2 | | R | 0.7 | 0.036 | | R | 0.7 | 0.036 |
| Isophorone | 4.4 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| n-Nitrosodiphenylamine | NL | | U | 0.7 | 0.048 | | U | 0.7 | 0.048 |
| n-Nitroso-di-n-propylamine | NL | | U | 0.7 | 0.035 | | U | 0.7 | 0.035 |
| Naphthalene | 13 | | U | 0.7 | 0.036 | | U | 0.7 | 0.036 |
| Nitrobenzene | 0.2 or MDL | | U | 0.7 | 0.034 | | U | 0.7 | 0.034 |
| Pentachlorophenol | 1.0 or MDL | | U | 3.3 | 0.02 | | U | 3.3 | 0.02 |
| Phenanthrene | 50 | | U | 0.7 | 0.043 | | U | 0.7 | 0.043 |
| Phenol | 0.03 or MDL | | U | 0.3 | 0.032 | | U | 0.3 | 0.032 |
| Pyrene | 50 | | U | 0.7 | 0.03 | | U | 0.7 | 0.03 |

Table 1B
Analytical Results for Semivolatiles by Method 8270C
(mg/kg)

8/10/01

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-06A (FD2) ¹ L0105181-12 5/18/01 | | | PAFB-SD-A3-06B (FD2) ¹ L0105181-13 5/18/01 | | | | |
|--|--|---|------|-------|---|--------|-------|------|-----|
| | | Result | QUAL | CRQL | MDL | Result | QUAL | CRQL | MDL |
| % Solids | NA | 84% | | | | 83% | | | |
| 1,2,4-Trichlorobenzene | 3.4 | U | 0.7 | 0.033 | U | 0.7 | 0.033 | | |
| 1,2-Dichlorobenzene | 7.9 | U | 0.7 | 0.033 | U | 0.7 | 0.033 | | |
| 1,3-Dichlorobenzene | 1.6 | U | 0.7 | 0.032 | U | 0.7 | 0.032 | | |
| 1,4-Dichlorobenzene | 8.5 | U | 0.7 | 0.034 | U | 0.7 | 0.034 | | |
| 2,4,5-Trichlorophenol | 0.1 | U | 3.3 | 0.047 | U | 3.3 | 0.047 | | |
| 2,4,6-Trichlorophenol | NL | U | 0.3 | 0.042 | U | 0.3 | 0.042 | | |
| 2,4-Dichlorophenol | 0.4 | U | 0.3 | 0.041 | U | 0.3 | 0.041 | | |
| 2,4-Dimethylphenol | NL | U | 0.3 | 0.037 | U | 0.3 | 0.037 | | |
| 2,4-Dinitrophenol | 0.2 or MDL | U | 3.3 | 0.11 | U | 3.3 | 0.11 | | |
| 2,4-Dinitrotoluene | 1 | U | 0.7 | 0.042 | U | 0.7 | 0.042 | | |
| 2,6-Dinitrotoluene | 1 | U | 0.7 | 0.04 | U | 0.7 | 0.04 | | |
| 2-Chloronaphthalene | NL | R | 0.7 | 0.04 | R | 0.7 | 0.04 | | |
| 2-Chlorophenol | 0.8 | U | 0.3 | 0.034 | U | 0.3 | 0.034 | | |
| 2-Methylnaphthalene | 36.4 | U | 0.7 | 0.037 | U | 0.7 | 0.037 | | |
| 2-Methylphenol | 0.1 or MDL | U | 0.3 | 0.063 | U | 0.3 | 0.063 | | |
| 2-Nitroaniline | 0.43 or MDL | U | 3.3 | 0.046 | U | 3.3 | 0.046 | | |
| 2-Nitrophenol | 0.33 or MDL | U | 0.3 | 0.032 | U | 0.3 | 0.032 | | |
| 3,3'-Dichlorobenzidine | NL | U | 1.3 | 0.15 | U | 1.3 | 0.15 | | |
| 3-Nitroaniline | 0.5 or MDL | U | 3.3 | 0.072 | U | 3.3 | 0.072 | | |
| 4,6-Dinitro-2-methylphenol | NL | U | 3.3 | 0.036 | U | 3.3 | 0.036 | | |
| 4-Bromophenyl-phenylether | NL | U | 0.7 | 0.038 | U | 0.7 | 0.038 | | |
| 4-Chloro-3-methylphenol | 0.24 or MDL | U | 1.3 | 0.046 | U | 1.3 | 0.046 | | |
| 4-Chloroaniline | 0.22 or MDL | U | 1.3 | 0.053 | U | 1.3 | 0.053 | | |
| 4-Chlorophenyl-phenyl ether | NL | U | 0.7 | 0.044 | U | 0.7 | 0.044 | | |
| 4-Methylphenol | 0.9 | U | 0.3 | 0.041 | U | 0.3 | 0.041 | | |
| 4-Nitroaniline | NL | U | 3.3 | 0.04 | U | 3.3 | 0.04 | | |
| p-Nitrophenol | 0.1 or MDL | U | 1.6 | 0.057 | U | 1.6 | 0.057 | | |
| Acenaphthene | 50 | U | 0.7 | 0.042 | U | 0.7 | 0.042 | | |
| Acenaphthylene | 41 | U | 0.7 | 0.042 | U | 0.7 | 0.042 | | |
| Anthracene | 50 | U | 0.7 | 0.035 | U | 0.7 | 0.035 | | |
| Benzo(a)anthracene | 0.224 or MDL | U | 0.7 | 0.029 | U | 0.7 | 0.029 | | |
| Benzo(a)pyrene | 0.061 or MDL | U | 0.7 | 0.026 | U | 0.7 | 0.026 | | |
| Benzo(b)fluoranthene | 1.1 | U | 0.7 | 0.028 | U | 0.7 | 0.028 | | |
| Benzo(g,h,i)Perylene | 50 | R | 0.7 | 0.037 | R | 0.7 | 0.037 | | |
| Benzo(k)fluoranthene | 1.1 | U | 0.7 | 0.043 | U | 0.7 | 0.043 | | |
| Benzoic acid | NL | U | 1.6 | 0.02 | U | 1.6 | 0.02 | | |
| Benzyl alcohol | NL | U | 1.3 | 0.06 | U | 1.3 | 0.06 | | |
| bis(2-Chloroethoxy)Methane | NL | U | 0.7 | 0.047 | U | 0.7 | 0.047 | | |
| bis(2-Chloroethyl)ether | NL | U | 0.7 | 0.041 | U | 0.7 | 0.041 | | |
| bis(2-Chloroisopropyl)ether | NL | U | 0.7 | 0.041 | U | 0.7 | 0.041 | | |
| bis(2-Ethylhexyl)phthalate | 50 | U | 0.7 | 0.039 | U | 0.7 | 0.039 | | |
| Butylbenzylphthalate | 50 | U | 0.7 | 0.031 | U | 0.7 | 0.031 | | |
| Chrysene | 0.4 | U | 0.7 | 0.041 | U | 0.7 | 0.041 | | |
| Di-n-butylphthalate | 8.1 | U | 0.7 | 0.031 | U | 0.7 | 0.031 | | |
| Di-n-octylphthalate | 50 | U | 0.7 | 0.031 | U | 0.7 | 0.031 | | |
| Dibenzo(a,h)anthracene | 0.014 or MDL | U | 0.7 | 0.039 | U | 0.7 | 0.039 | | |
| Dibenzofuran | 6.2 | U | 0.7 | 0.043 | U | 0.7 | 0.043 | | |
| Diethylphthalate | 7.1 | U | 0.7 | 0.049 | U | 0.7 | 0.049 | | |
| Dimethylphthalate | 2 | U | 0.7 | 0.046 | U | 0.7 | 0.046 | | |
| Fluoranthene | 50 | U | 0.7 | 0.028 | U | 0.7 | 0.028 | | |
| Fluorene | 50 | U | 0.7 | 0.044 | U | 0.7 | 0.044 | | |
| Hexachlorobenzene | 0.41 | U | 0.7 | 0.04 | U | 0.7 | 0.04 | | |
| Hexachlorobutadiene | NL | U | 0.7 | 0.037 | U | 0.7 | 0.037 | | |
| Hexachlorocyclopentadiene | NL | U | 0.7 | 0.087 | U | 0.7 | 0.087 | | |
| Hexachloroethane | NL | U | 0.7 | 0.033 | U | 0.7 | 0.033 | | |
| Indeno(1,2,3-cd)pyrene | 3.2 | U | 0.7 | 0.036 | U | 0.7 | 0.036 | | |
| Isophorone | 4.4 | U | 0.7 | 0.043 | U | 0.7 | 0.043 | | |
| n-Nitrosodiphenylamine | NL | U | 0.7 | 0.048 | U | 0.7 | 0.048 | | |
| n-Nitroso-di-n-propylamine | NL | U | 0.7 | 0.035 | U | 0.7 | 0.035 | | |
| Naphthalene | 13 | U | 0.7 | 0.036 | U | 0.7 | 0.036 | | |
| Nitrobenzene | 0.2 or MDL | U | 0.7 | 0.034 | U | 0.7 | 0.034 | | |
| Pentachlorophenol | 1.0 or MDL | U | 3.3 | 0.02 | U | 3.3 | 0.02 | | |
| Phenanthrene | 50 | U | 0.7 | 0.043 | U | 0.7 | 0.043 | | |
| Phenol | 0.03 or MDL | U | 0.3 | 0.032 | U | 0.3 | 0.032 | | |
| Pyrene | 50 | U | 0.7 | 0.03 | U | 0.7 | 0.03 | | |

Table 1C
Analytical Results for Metals by Method 6010B/7841/7471
(mg/kg)

| Field Sample ID Lab Number analysis date | Analyte | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A1-01 L0105181-01 5/19/01 | | | PAFB-SD-A1-02 (FDI) ⁽¹⁾ L0105181-02 5/19/01 | | | PAFB-SD-A1-02B (FDI) ⁽¹⁾ L0105181-03 5/19/01 | | | PAFB-SD-A1-03 L0105181-04 5/19/01 | | | | | |
|--|---------|--|---|------|-----|--|--------|------|---|------|--------|---|-----|-------|--------|------|------|
| | | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL | Result | QUAL | RDL |
| % Solids | | NA | 86% | | | | | | | | | | | 77% | | | |
| Aluminum | | SB | 4880 | | 22 | 3.23 | 3620 | | 22 | 3.23 | 3860 | | 22 | 2860 | | 22 | 3.23 |
| Antimony | | SB | | U, M | 1 | 0.45 | 0.57 | F | 1 | 0.45 | 0.712 | F | 1 | | U | 1 | 0.45 |
| Arsenic | | 7.5 or SB | 1.76 | | 1 | 0.35 | 1.92 | | 1 | 0.35 | 1.57 | | 1 | 1.68 | | 1 | 0.35 |
| Barium | | 300 or SB | 19.2 | M | 1 | 0.01 | 15.9 | | 1 | 0.01 | 14 | | 1 | 10.7 | | 1 | 0.01 |
| Beryllium | | 0.16 or SB | 0.198 | F | 0.3 | 0.01 | 0.218 | F | 0.3 | 0.01 | 0.20 | F | 0.3 | 0.186 | F | 0.3 | 0.01 |
| Cadmium | | 1 or SB | | U | 0.1 | 0.03 | | U | 0.1 | 0.03 | | U | 0.1 | | U | 0.1 | 0.03 |
| Calcium | | SB | 1720 | M | 100 | 2.83 | 1510 | J | 100 | 2.83 | 902 | J | 100 | 1740 | | 100 | 2.83 |
| Chromium | | 10 or SB | 7.34 | F | 20 | 0.06 | 6.68 | F | 20 | 0.06 | 5.55 | F | 20 | 6.57 | F | 20 | 0.06 |
| Cobalt | | 30 or SB | 2.02 | F | 10 | 0.04 | 2.28 | F | 10 | 0.04 | 2.19 | F, J | 10 | 1.91 | F | 10 | 0.04 |
| Copper | | 25 or SB | 4.41 | | 2 | 0.15 | 2.34 | | 2 | 0.15 | 1.28 | F | 2 | 1.92 | F | 2 | 0.15 |
| Iron | | 2000 or SB | 7880 | | 3 | 1.11 | 7950 | J | 3 | 1.11 | 10600 | J | 3 | 9830 | | 3 | 1.11 |
| Lead | | SB | 12.3 | M | 1 | 0.33 | 4.3 | J | 1 | 0.33 | 2.2 | J | 1 | 2 | | 1 | 0.33 |
| Mercury | | 0.1 | | U | 0.1 | 0.02 | | U | 0.1 | 0.02 | | U | 0.1 | | U | 0.1 | 0.02 |
| Magnesium | | SB | 757 | M | 100 | 4.65 | 946 | J | 100 | 4.65 | 574 | J | 100 | 864 | | 100 | 4.65 |
| Manganese | | SB | 81.7 | | 2 | 0.01 | 137 | J | 2 | 0.01 | 169 | J | 2 | 73.4 | | 2 | 0.01 |
| Nickel | | 13 or SB | 3.06 | | 2 | 0.10 | 3.23 | | 2 | 0.10 | 2.15 | | 2 | 2.53 | F | 2 | 0.10 |
| Potassium | | SB | 370 | F | 610 | 5.96 | 468 | F | 610 | 5.96 | 213 | F | 610 | 500 | F | 610 | 5.96 |
| Selenium | | 2 or SB | 2.91 | | 1 | 0.26 | 2.06 | | 1 | 0.26 | 2.63 | J | 1 | 2.23 | | 1 | 0.26 |
| Silver | | SB | 0.134 | F | 1 | 0.10 | 0.132 | F | 1 | 0.10 | | U | 1 | | U | 1 | 0.10 |
| Sodium | | SB | 36.6 | | 10 | 0.87 | 51.1 | | 10 | 0.87 | 26.9 | | 10 | 56 | | 10 | 0.87 |
| Thallium | | SB | 0.166 | F | 0.3 | 0.06 | 0.165 | F | 0.3 | 0.06 | 0.148 | F | 0.3 | 0.162 | F | 0.3 | 0.06 |
| Vanadium | | 150 or SB | 12.1 | | 1 | 0.23 | 11.7 | | 1 | 0.23 | 13.4 | | 1 | 13.4 | | 1 | 0.23 |
| Zinc | | 20 or SB | 30.5 | 30.5 | 1 | 0.47 | 11.2 | J | 1 | 0.47 | 9.53 | J | 1 | 8.75 | | 1 | 0.47 |

Table 1C
Analytical Results for Metals by Method 6010B/7841/7471
(mg/kg)

| Field Sample ID Lab Number analysis date | Analyte | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A2-01 L0105181-05 5/19/01 | | | PAFB-SD-A2-02 L0105181-06 5/19/01 | | | PAFB-SD-A3-01 L0105181-07 5/19/01 | | | PAFB-SD-A3-02 L0105181-08 5/19/01 | | | | | |
|--|---------|--|---|------|-----|---|--------|------|---|-------|--------|---|-----|-----|--------|------|------|
| | | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL | Result | QUAL | RDL |
| % Solids | | NA | 97% | | | | | | | | | | | 83% | | | |
| Aluminum | | SB | 3430 | U | 22 | 3.23 | 3330 | F | 22 | 1800 | 3.23 | 2240 | U | 22 | 2240 | 3.23 | 3.23 |
| Antimony | | SB | | | 1 | 0.45 | 0.567 | F | 1 | | 0.45 | | | 1 | | 0.45 | 0.45 |
| Arsenic | | 7.5 or SB | 1.23 | | 1 | 0.35 | 1.54 | | 1 | 1.26 | 0.35 | 1.54 | | 1 | 1.54 | 0.35 | 0.35 |
| Barium | | 300 or SB | 13.3 | | 1 | 0.01 | 12.5 | | 1 | 7.65 | 0.01 | 13.4 | | 1 | 13.4 | 0.01 | 0.01 |
| Beryllium | | 0.16 or SB | 0.148 | F | 0.3 | 0.01 | 0.165 | F | 0.3 | 0.12 | 0.01 | 0.227 | F | 0.3 | 0.227 | 0.01 | 0.01 |
| Cadmium | | 1 or SB | | U | 0.1 | 0.03 | | U | 0.1 | | 0.03 | | U | 0.1 | | 0.03 | 0.03 |
| Calcium | | SB | 792 | | 100 | 2.83 | 1240 | | 100 | 961 | 2.83 | 934 | | 100 | 934 | 2.83 | 2.83 |
| Chromium | | 10 or SB | 4.32 | F | 20 | 0.06 | 5.08 | F | 20 | 2.87 | 0.06 | 3.47 | F | 20 | 3.47 | 0.06 | 0.06 |
| Cobalt | | 30 or SB | 1.65 | F | 10 | 0.04 | 1.88 | F | 10 | 1.59 | 0.04 | 2.75 | F | 10 | 2.75 | 0.04 | 0.04 |
| Copper | | 25 or SB | 1.36 | F | 2 | 0.15 | 1.77 | F | 2 | 1.6 | 0.15 | 1.81 | F | 2 | 1.81 | 0.15 | 0.15 |
| Iron | | 2000 or SB | 5720 | | 3 | 1.11 | 6780 | | 3 | 4260 | 1.11 | 4950 | | 3 | 4950 | 1.11 | 1.11 |
| Lead | | SB | 1.61 | | 1 | 0.33 | 3.51 | | 1 | 1.49 | 0.33 | 1.42 | | 1 | 1.42 | 0.33 | 0.33 |
| Mercury | | 0.1 | | U | 0.1 | 0.02 | | U | 0.1 | | 0.02 | | U | 0.1 | | 0.02 | 0.02 |
| Magnesium | | SB | 639 | | 100 | 4.65 | 732 | | 100 | 641 | 4.65 | 1160 | | 100 | 1160 | 4.65 | 4.65 |
| Manganese | | SB | 63.8 | | 2 | 0.01 | 97.9 | | 2 | 57.8 | 0.01 | 98 | | 2 | 98 | 0.01 | 0.01 |
| Nickel | | 13 or SB | 258 | | 2 | 0.10 | 2.81 | | 2 | 1.91 | 0.10 | 2.73 | F | 2 | 2.73 | 0.10 | 0.10 |
| Potassium | | SB | 335 | F | 610 | 5.96 | 399 | F | 610 | 375 | 5.96 | 493 | F | 610 | 493 | 5.96 | 5.96 |
| Selenium | | 2 or SB | 1.41 | | 1 | 0.26 | 1.74 | | 1 | 0.992 | 0.26 | 1.29 | | 1 | 1.29 | 0.26 | 0.26 |
| Silver | | SB | | U | 1 | 0.10 | | U | 1 | | 0.10 | | U | 1 | | 0.10 | 0.10 |
| Sodium | | SB | 35.8 | | 10 | 0.87 | 37 | | 10 | 31.3 | 0.87 | 41.3 | | 10 | 41.3 | 0.87 | 0.87 |
| Thallium | | SB | 0.134 | F | 0.3 | 0.06 | 0.121 | F | 0.3 | 0.11 | 0.06 | 0.123 | F | 0.3 | 0.123 | 0.06 | 0.06 |
| Vanadium | | 150 or SB | 8.41 | | 1 | 0.23 | 9.94 | | 1 | 5.55 | 0.23 | 6.35 | | 1 | 6.35 | 0.23 | 0.23 |
| Zinc | | 20 or SB | 7.16 | | 1 | 0.47 | 10.5 | | 1 | 6.44 | 0.47 | 7.88 | | 1 | 7.88 | 0.47 | 0.47 |

Table 1C
Analytical Results for Metals by Method 6010B/7841/7471
(mg/kg)

| Field Sample ID Lab Number analysis date | TAGMS Cleanup Objective ⁽²⁾ | PAFB-SD-A3-03 L0105181-09 5/19/01 | | | PAFB-SD-A3-04 L0105181-10 5/19/01 | | | PAFB-SD-A3-05 L0105181-11 5/19/01 | | | PAFB-SD-A3-06A (FD2) ¹ L0105181-12 5/19/01 | | | PAFB-SD-A3-06B (FD2) ¹ L0105181-13 5/19/01 | | | |
|--|--|---|------|-----|---|--------|------|---|------|--------|---|-----|------|---|------|-----|------|
| | | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL | Result | QUAL | RDL | MDL |
| % Solids | NA | 84% | | | | | | | | | | | | | | | |
| Aluminum | SB | 2080 | U | 22 | 3.23 | 2660 | U | 22 | 3.23 | 3460 | F | 22 | 3.23 | 3610 | J | 22 | 3.23 |
| Antimony | SB | | | 1 | 0.45 | | | 1 | 0.45 | 0.551 | F | 1 | 0.45 | U | 1 | 1 | 0.45 |
| Arsenic | 7.5 or SB | 1.21 | | 1 | 0.35 | 1.49 | | 1 | 0.35 | 1.36 | | 1 | 0.35 | 1.54 | | 1 | 0.35 |
| Barium | 300 or SB | 7.75 | | 1 | 0.01 | 9.54 | | 1 | 0.01 | 19.5 | | 1 | 0.01 | 11.9 | J | 1 | 0.01 |
| Beryllium | 0.16 or SB | 0.13 | F | 0.3 | 0.01 | 0.148 | F | 0.3 | 0.01 | 0.201 | F | 0.3 | 0.01 | 0.205 | F | 0.3 | 0.01 |
| Cadmium | 1 or SB | | U | 0.1 | 0.03 | | U | 0.1 | 0.03 | 0.0567 | F | 0.1 | 0.03 | U | 0.1 | 0.1 | 0.03 |
| Calcium | SB | | U | 100 | 2.83 | 1440 | | 100 | 2.83 | 1180 | | 100 | 2.83 | 1430 | | 100 | 2.83 |
| Chromium | 10 or SB | 3.68 | F | 20 | 0.06 | 4.79 | F | 20 | 0.06 | 4.49 | F | 20 | 0.06 | 5.16 | F | 20 | 0.06 |
| Cobalt | 30 or SB | 1.58 | F | 10 | 0.04 | 2.16 | F | 10 | 0.04 | 2.2 | F | 10 | 0.04 | 2.14 | F | 10 | 0.04 |
| Copper | 25 or SB | 1.87 | F | 2 | 0.15 | 2.79 | | 2 | 0.15 | 2.36 | | 2 | 0.15 | 2.71 | | 2 | 0.15 |
| Iron | 2000 or SB | 5100 | | 3 | 1.11 | 6190 | | 3 | 1.11 | 5200 | | 3 | 1.11 | 6770 | J | 3 | 1.11 |
| Lead | SB | 1.31 | | 1 | 0.33 | 1.75 | | 1 | 0.33 | 2.61 | | 1 | 0.33 | 2.01 | | 1 | 0.33 |
| Mercury | 0.1 | | U | 0.1 | 0.02 | | U | 0.1 | 0.02 | | U | 0.1 | 0.02 | U | 0.1 | 0.1 | 0.02 |
| Magnesium | SB | 731 | | 100 | 4.65 | 908 | | 100 | 4.65 | 1080 | | 100 | 4.65 | 1140 | | 100 | 4.65 |
| Manganese | SB | 36 | | 2 | 0.01 | 37.5 | | 2 | 0.01 | 84 | | 2 | 0.01 | 95.8 | J | 2 | 0.01 |
| Nickel | 13 or SB | 5.31 | | 2 | 0.10 | 4.84 | | 2 | 0.10 | 3.51 | | 2 | 0.10 | 3.6 | | 2 | 0.10 |
| Potassium | SB | 436 | F | 610 | 5.96 | 578 | F | 610 | 5.96 | 713 | F | 610 | 5.96 | 629 | | 610 | 5.96 |
| Selenium | 2 or SB | 1.15 | F | 1 | 0.26 | 1.25 | | 1 | 0.26 | 1.2 | | 1 | 0.26 | 1.7 | | 1 | 0.26 |
| Silver | SB | | U | 1 | 0.10 | | U | 1 | 0.10 | | U | 1 | 0.10 | U | 1 | 1 | 0.10 |
| Sodium | SB | 43.8 | | 10 | 0.87 | 53.5 | | 10 | 0.87 | 43.1 | | 10 | 0.87 | 47.6 | J | 10 | 0.87 |
| Thallium | SB | 0.115 | F | 0.3 | 0.06 | 0.128 | F | 0.3 | 0.06 | 0.11 | F | 0.3 | 0.06 | 0.155 | F | 0.3 | 0.06 |
| Vanadium | 150 or SB | 7.18 | | 1 | 0.23 | 8.87 | | 1 | 0.23 | 6.78 | | 1 | 0.23 | 9.27 | J | 1 | 0.23 |
| Zinc | 20 or SB | 6.77 | | 1 | 0.47 | 8.48 | | 1 | 0.47 | 12.3 | | 1 | 0.47 | 11.1 | J | 1 | 0.47 |

Table 1
Summary of Analytical Results
(footnotes)

8/10/01

FOOTNOTES:

(1) The following are field duplicate pairs :
PAFB-SD-A1-02 & PAFB-SD-A1-02B
PAFB-SD-A3-06A & PAFB-SD-A3-06B

TAGMS Cleanup Objective: Recommended Soil cleanup Objective (NYSDEC TAGM #4046 - Appendix A, Tables 1-4

Abbreviations used in the Table:

SB - Site Background
N/A - Not applicable
NL - no TAGM value listed in table.
CRQL -Contract Required Detection Limit
MDL - Method Detection Limit

Qualifier Footnotes:

- J -** Results are estimated and the data are valid for limited purposes. The results are qualitatively acceptable but quantitatively unreliable.
- UJ -** The reported quantitation limit is estimated because associated quality control criteria were not met.
- B -** Results are estimated because the compound was detected in an associated blank.
- R-** Reported value or quantitation limit is rejected. Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- M-** A matrix interference was present. Reported value or quantitation limit may be an estimate.
- F -** Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the limit of detection.

Summary of Qualified Results

| Field Sample ID | Analysis | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier | Data Impact ⁽²⁾ |
|-----------------|----------|--------|------------------------|------------------------|---|-----------|----------------------------|
| TRIP BLANK | VOC | 8260B | Methylene chloride | 0.74 ug/L | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | VOC | 8260B | tert-Butyl-benzene | <0.0071 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | VOC | 8260B | sec-Butyl-benzene | <0.0071 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | VOC | 8260B | p-Isopropyl toluene | < 0.0061 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | VOC | 8260B | n-Butyl-benzene | < 0.0051 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | VOC | 8260B | 1,2,4-Trichlorobenzene | < 0.002 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | VOC | 8260B | Hexachlorobutadiene | < 0.0051 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | VOC | 8260B | Naphthalene | < 0.002 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Benzo(ghi)perylene | 0.199 | CCV > CL | R | None |
| PAFB-SD-A1-02 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A1-02B | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A1-03 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A2-01 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A2-02 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-01 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-02 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-03 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-04 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-05 | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-06A | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-06B | SVOC | 8270C | Benzo(ghi)perylene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A1-01 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | 0.194 | CCV > CL | R | None |
| PAFB-SD-A1-02 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A1-02B | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A1-03 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A2-01 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A2-02 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-02 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-03 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-04 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A3-05 | SVOC | 8270C | Indeno(1,2,3-cd)pyrene | <0.7 | CCV > CL | R | None |

Summary of Qualified Results

| Field Sample ID | Analysis | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier | Data Impact ⁽²⁾ |
|-------------------------------|----------|--------|------------------------|------------------------|---|-----------|----------------------------|
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Dibenz(ah)anthracene | <0.7 | CCV > CL | R | None |
| PAFB-SD-A1-01 | SVOC | 8270C | Di-n-octylphthalate, | <1.6 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Benzo(b)fluoranthene*, | 1.3 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Benzo(k)fluoranthene*, | 0.803 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Benzo(a)pyrene*, | 0.836 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Indeno(123-cd)pyrene*, | 0.254 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Dibenz(ah)anthracene, | <1.6 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Benzo(ghi)perylene* | 0.13 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Di-n-octylphthalate, | <1.6 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Benzo(b)fluoranthene*, | 1.27 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Benzo(k)fluoranthene*, | 0.75 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Benzo(a)pyrene*, | 0.848 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Indeno(123-cd)pyrene*, | 0.254 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Dibenz(ah)anthracene, | <1.6 | IS < CL | R | Low Bias |
| PAFB-SD-A1-01-Reanalysis (RA) | SVOC | 8270C | Benzo(ghi)perylene* | 0.199 | IS < CL | R | Low Bias |
| All Samples | SVOC | 8270C | 2-Chloronaphthalene | < 1.6 | LCS < CL | R | Low Bias |
| PAFB-SD-A1-01 | SVOC | 8270C | Acenaphthylene | 0.211 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | SVOC | 8270C | Anthracene | 0.114 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | SVOC | 8270C | Benzo(a)anthracene | 0.837 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | SVOC | 8270C | Chrysene | 1.02 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | SVOC | 8270C | Phenanthrene | 0.902 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Acenaphthylene | 0.19 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Anthracene | 0.108 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Benzo(a)anthracene | 0.836 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Benzo(a)pyrene | 0.836 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Benzo(b)fluoranthene | 1.3 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Benzo(k)fluoranthene | 0.803 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Chrysene | 1.01 | Result < RDL | F | Precision |

Summary of Qualified Results

| Field Sample ID | Analysis | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier | Data Impact ⁽²⁾ |
|--------------------|----------|--------|--------------------|------------------------|---|-----------|----------------------------|
| PAFB-SD-A1-01 (RA) | SVOC | 8270C | Phenanthrene | 0.883 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | SVOC | 8270C | Fluoranthene | 0.0323 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | SVOC | 8270C | Benzo(a)anthracene | 0.0307 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | SVOC | 8270C | Fluoranthene | 0.0577 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | SVOC | 8270C | Pyrene | 0.0458 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Lead | 12.3 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | Metals | 6010B | Antimony | < 0.523 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | Metals | 6010B | Zinc | 30.5 | MS < CL | M | Low Bias |
| PAFB-SD-A1-01 | Metals | 6010B | Calcium | 1720 | MS > CL | M | High Bias |
| PAFB-SD-A1-01 | Metals | 6010B | Magnesium | 757 | MS > CL | M | High Bias |
| PAFB-SD-A1-01 | Metals | 6010B | Barium | 19.2 | MS RPD > CL | M | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Calcium | 1720 | MS RPD > CL | M | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Calcium | 902 | DUP RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Iron | 10600 | DUP RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Manganese | 169 | DUP RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Selenium | 2.63 | DUP RPD > CL | J | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Calcium | 1510 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Iron | 7950 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Lead | 4.3 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Magnesium | 946 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Manganese | 137 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Zinc | 11.2 | DUP RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Calcium | 902 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Iron | 10600 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Lead | 12.2 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Magnesium | 574 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Manganese | 169 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Zinc | 9.53 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Aluminum | 5180 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Barium | 17.4 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Iron | 8560 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Manganese | 155 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Vanadium | 12.4 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Zinc | 14.5 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Aluminum | 3610 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Barium | 11.9 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Iron | 6770 | FD RPD > CL | J | Precision |

Summary of Qualified Results

| Field Sample ID | Analysis | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier | Data Impact ⁽²⁾ |
|-----------------|----------|--------|----------------|------------------------|---|-----------|----------------------------|
| PAFB-SD-A3-06B | Metals | 6010B | Manganese | 95.8 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Vanadium | 9.27 | FD RPD > CL | J | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Zinc | 11.1 | FD RPD > CL | J | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Beryllium | 0.198 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Chromium | 7.34 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Cobalt | 2.02 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Potassium | 370 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | Metals | 6010B | Silver | 0.134 | Result < RDL | F | Precision |
| PAFB-SD-A1-01 | Metals | 7841 | Thallium | 0.166 | Result < RDL | F | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Beryllium | 0.218 | Result < RDL | F | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Chromium | 6.68 | Result < RDL | F | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Cobalt | 2.28 | Result < RDL | F | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Potassium | 468 | Result < RDL | F | Precision |
| PAFB-SD-A1-02 | Metals | 6010B | Silver | 0.132 | Result < RDL | F | Precision |
| PAFB-SD-A1-02 | Metals | 7841 | Thallium | 0.165 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Antimony | 0.712 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Beryllium | 0.2 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Chromium | 5.55 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Cobalt | 2.19 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Copper | 1.28 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 6010B | Potassium | 213 | Result < RDL | F | Precision |
| PAFB-SD-A1-02B | Metals | 7841 | Thallium | 0.148 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 6010B | Beryllium | 0.186 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 6010B | Chromium | 6.57 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 6010B | Cobalt | 1.91 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 6010B | Copper | 1.92 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 6010B | Nickel | 2.53 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 6010B | Potassium | 500 | Result < RDL | F | Precision |
| PAFB-SD-A1-03 | Metals | 7841 | Thallium | 0.162 | Result < RDL | F | Precision |
| PAFB-SD-A2-01 | Metals | 6010B | Beryllium | 0.148 | Result < RDL | F | Precision |
| PAFB-SD-A2-01 | Metals | 6010B | Chromium | 4.32 | Result < RDL | F | Precision |
| PAFB-SD-A2-01 | Metals | 6010B | Cobalt | 1.65 | Result < RDL | F | Precision |
| PAFB-SD-A2-01 | Metals | 6010B | Copper | 1.36 | Result < RDL | F | Precision |
| PAFB-SD-A2-01 | Metals | 6010B | Potassium | 335 | Result < RDL | F | Precision |
| PAFB-SD-A2-01 | Metals | 7841 | Thallium | 0.134 | Result < RDL | F | Precision |
| PAFB-SD-A2-02 | Metals | 6010B | Antimony | 0.567 | Result < RDL | F | Precision |
| PAFB-SD-A2-02 | Metals | 6010B | Beryllium | 0.165 | Result < RDL | F | Precision |

Summary of Qualified Results

| Field Sample ID | Analysis | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier | Data Impact ⁽²⁾ |
|-----------------|----------|--------|----------------|------------------------|---|-----------|----------------------------|
| PAFB-SD-A2-02 | Metals | 6010B | Chromium | 5.08 | Result < RDL | F | Precision |
| PAFB-SD-A2-02 | Metals | 6010B | Cobalt | 1.88 | Result < RDL | F | Precision |
| PAFB-SD-A2-02 | Metals | 6010B | Copper | 1.77 | Result < RDL | F | Precision |
| PAFB-SD-A2-02 | Metals | 6010B | Potassium | 399 | Result < RDL | F | Precision |
| PAFB-SD-A2-02 | Metals | 7841 | Thallium | 0.121 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Beryllium | 0.12 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Chromium | 2.87 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Cobalt | 1.59 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Copper | 1.6 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Nickel | 1.91 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Potassium | 375 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 6010B | Selenium | 0.992 | Result < RDL | F | Precision |
| PAFB-SD-A3-01 | Metals | 7841 | Thallium | 0.11 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | Metals | 6010B | Beryllium | 0.227 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | Metals | 6010B | Chromium | 3.47 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | Metals | 6010B | Cobalt | 2.75 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | Metals | 6010B | Copper | 1.81 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | Metals | 6010B | Potassium | 493 | Result < RDL | F | Precision |
| PAFB-SD-A3-02 | Metals | 7841 | Thallium | 0.123 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 6010B | Beryllium | 0.13 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 6010B | Chromium | 3.68 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 6010B | Cobalt | 1.58 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 6010B | Copper | 1.87 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 6010B | Potassium | 436 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 6010B | Selenium | 1.15 | Result < RDL | F | Precision |
| PAFB-SD-A3-03 | Metals | 7841 | Thallium | 0.115 | Result < RDL | F | Precision |
| PAFB-SD-A3-04 | Metals | 6010B | Beryllium | 0.148 | Result < RDL | F | Precision |
| PAFB-SD-A3-04 | Metals | 6010B | Chromium | 4.79 | Result < RDL | F | Precision |
| PAFB-SD-A3-04 | Metals | 6010B | Cobalt | 2.16 | Result < RDL | F | Precision |
| PAFB-SD-A3-04 | Metals | 6010B | Potassium | 578 | Result < RDL | F | Precision |
| PAFB-SD-A3-04 | Metals | 7841 | Thallium | 0.128 | Result < RDL | F | Precision |
| PAFB-SD-A3-05 | Metals | 6010B | Antimony | 0.551 | Result < RDL | F | Precision |
| PAFB-SD-A3-05 | Metals | 6010B | Beryllium | 0.201 | Result < RDL | F | Precision |
| PAFB-SD-A3-05 | Metals | 6010B | Cadmium | 0.0567 | Result < RDL | F | Precision |
| PAFB-SD-A3-05 | Metals | 6010B | Chromium | 4.49 | Result < RDL | F | Precision |
| PAFB-SD-A3-05 | Metals | 6010B | Cobalt | 2.2 | Result < RDL | F | Precision |
| PAFB-SD-A3-05 | Metals | 6010B | Potassium | 713 | Result < RDL | F | Precision |

Summary of Qualified Results

| Field Sample ID | Analysis | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier | Data Impact ⁽²⁾ |
|-----------------|----------|--------|----------------|------------------------|---|-----------|----------------------------|
| PAFB-SD-A3-05 | Metals | 7841 | Thallium | 0.11 | Result < RDL | F | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Beryllium | 0.283 | Result < RDL | F | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Chromium | 7.15 | Result < RDL | F | Precision |
| PAFB-SD-A3-06A | Metals | 6010B | Cobalt | 2.7 | Result < RDL | F | Precision |
| PAFB-SD-A3-06A | Metals | 7841 | Thallium | 0.15 | Result < RDL | F | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Beryllium | 0.205 | Result < RDL | F | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Chromium | 5.16 | Result < RDL | F | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Cobalt | 2.14 | Result < RDL | F | Precision |
| PAFB-SD-A3-06B | Metals | 6010B | Potassium | 629 | Result < RDL | F | Precision |
| PAFB-SD-A3-06B | Metals | 7841 | Thallium | 0.155 | Result < RDL | F | Precision |

FOOTNOTES:

1) Reason for Qualification

- CCV > CL: Continuing Calibration %Difference > control limit (> 20%)
- DUP RPD > CL: Duplicate analysis RPD greater than control limit (> 20%)
- FD RPD > CL: Blind field duplicate analysis RPD > control limit (> 20%)
- IS < CL: Internal Standard Area less than lower control limit
- LCS < CL: LCS Recovery below the lower control limit
- MS > CL: Matrix spike %Recovery above upper control limit
- MS < CL: Matrix spike %Recovery below lower control limit
- MS RPD > CL: Matrix spike/matrix spike duplicate analysis RPD greater than control limit
- Result < RDL: Result above the MDL but less than the RDL and subject to poor precision.

(2) Data Impact:

- None: The observed non-compliance does not impact the laboratory's ability to detect this compound.
- High Bias: The associated reported result may overestimate the true value.
- Low Bias: The associated reported result may underestimate the true value or the possibility of a false non-detect exists.
- Precision: The associated reported result is subject to high variability.

Summary of Field Duplicate Results

| Field Sample ID | Target Analytes | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RDL (mg/kg) | RPD or Difference | Criteria (% or mg/kg) ⁽¹⁾ | Qualifier |
|---------------------------------|------------------------|-----------------------|--------------------------|-------------|-------------------|--------------------------------------|-----------|
| VOCs | | | | | | | |
| PAFB-SD-A1-02/-02B (site A1-02) | 1,3,5-Trimethylbenzene | 0.00238 | < 0.003 | 0.003 | 0.001 | ± 0.006 | |
| | Naphthalene | 0.000684 | < 0.002 | 0.002 | 0.001 | ± 0.004 | |
| | Styrene | 0.00182 | < 0.002 | 0.002 | 0.000 | ± 0.004 | |
| | Acetone | 0.008 | 0.00458 | 0.008 | -0.003 | ± 0.016 | |
| METALS | | | | | | | |
| | Aluminum | 3620 | 3860 | 22 | 6.4% | 0 - 20% | |
| | Antimony | 0.57 | 0.712 | 1 | 0.43 | ± 2 | |
| | Arsenic | 1.92 | 1.57 | 1 | 0.35 | ± 2 | |
| | Barium | 15.9 | 14 | 1 | -12.7% | 0 - 20% | |
| | Beryllium | 0.218 | 0.20 | 0.3 | 0.02 | ± 0.6 | |
| | Calcium | 1510 | 902 | 100 | -50.4% | 0 - 20% | J |
| | Chromium | 6.68 | 5.55 | 20 | 1.1 | ± 40 | |
| | Cobalt | 2.28 | 2.19 | 10 | 0.1 | ± 20 | |
| | Copper | 2.34 | 1.28 | 2 | 1.1 | ± 4 | |
| | Iron | 7950 | 10600 | 3 | 28.6% | 0 - 20% | J |
| | Lead | 4.3 | 2.2 | 1 | 2.1 | ± 2 | J |
| | Magnesium | 946 | 574 | 100 | -48.9% | 0 - 20% | J |
| | Manganese | 137 | 169 | 2 | 20.9% | 0 - 20% | J |
| | Nickel | 3.23 | 2.15 | 2 | 1.1 | ± 4 | |
| | Potassium | 468 | 213 | 610 | 255.0 | ± 1220 | |
| | Selenium | 2.06 | 2.63 | 1 | -0.6 | ± 2 | |
| | Silver | 0.132 | < 1 | 1 | 0.868 | ± 2 | |
| | Sodium | 51.1 | 26.9 | 10 | 24.2 | ± 20 | |
| | Thallium | 0.165 | 0.148 | 0.3 | 0.017 | ± 0.6 | |
| | Vanadium | 11.7 | 13.4 | 1 | 13.5% | 0 - 20% | |
| | Zinc | 11.2 | 9.53 | 1 | -16.1% | 0 - 20% | J |

Table 3
Summary of Field Duplicate Results

| Field Sample ID | Target Analytes | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RDL (mg/kg) | RPD or Difference | Criteria (% or mg/kg) ⁽¹⁾ | Qualifier |
|--|-----------------|-----------------------|--------------------------|-------------|-------------------|--------------------------------------|-----------|
| PAFB-SD-A3-06A/ -06B (site A3-06) | | | | | | | |
| METALS | | | | | | | |
| | Aluminum | 5180 | 3610 | 22 | -35.7% | 0 - 20% | J |
| | Arsenic | 1.99 | 1.54 | 1 | 0.5 | ± 2 | |
| | Barium | 17.4 | 11.9 | 1 | -37.5% | 0 - 20% | J |
| | Beryllium | 0.283 | 0.205 | 0.3 | 0.1 | ± 0.6 | |
| | Calcium | 1650 | 1430 | 100 | -14.3% | 0 - 20% | |
| | Chromium | 7.15 | 5.16 | 20 | 2.0 | ± 40 | |
| | Cobalt | 2.7 | 2.14 | 10 | 0.6 | ± 20 | |
| | Copper | 4.15 | 2.71 | 2 | 1.4 | ± 4 | |
| | Iron | 8560 | 6770 | 3 | -23.4% | 0 - 20% | J |
| | Lead | 2.04 | 2.01 | 1 | 0.03 | ± 2 | |
| | Magnesium | 1370 | 1140 | 100 | -18.3% | 0 - 20% | |
| | Manganese | 155 | 95.8 | 2 | -47.2% | 0 - 20% | J |
| | Nickel | 4.8 | 3.6 | 2 | 1.20 | ± 4 | |
| | Potassium | 968 | 629 | 610 | 339 | ± 1220 | |
| | Selenium | 1.98 | 1.7 | 1 | 0.28 | ± 2 | |
| | Sodium | 62.6 | 47.6 | 10 | 15 | ± 20 | |
| | Thallium | 0.15 | 0.155 | 0.3 | -0.01 | ± 0.6 | |
| | Vanadium | 12.4 | 9.27 | 1 | -28.9% | 0 - 20% | J |
| | Zinc | 14.5 | 11.1 | 1 | -26.6% | 0 - 20% | J |

M E M O R A N D U M

TO: Rich Habrukowich, Versar, Bristol, PA
FROM: Donna Oswald/Harvey Pokorny, Versar, Lombard, IL
DATE: March 28, 2001
RE: **Data Validation/Usability Report for Plattsburgh AFB
Construction and Demolition Debris Landfill, Confirmation Soil Samples**

1.0 INTRODUCTION

On December 7, 2000, thirty-three soil samples and three duplicate samples were collected at Plattsburgh AFB (Construction and Demolition Debris Landfill) from the sidewalls and bottom of trenches and excavation areas as well as test pits. Soil samples were sent to Kemron Environmental Services (Kemron), located in Marietta, Ohio, for analysis of volatiles (VOCs) by EPA Method SW8260B, semivolatiles (SVOCs) by EPA Method SW8270C and TAL metals by EPA methods 6010B and 7000 series. Analyses were performed in accordance with Air Force Center for Environmental Excellence (AFCEE) Quality Assurance Project Plan (QAPP) Version 3.0 (March 1998) with the exception of several laboratory variances for VOCs and SVOCs. Several compounds not part of the AFCEE target analyte list for VOCs and SVOC were also included to satisfy NYDEC reporting requirements. Additional compounds are the VOCs acetone and 2-butanone, and the SVOC benzo(k)fluoranthene by EPA Method SW8270C. As these compounds are not included in the AFCEE QAPP, laboratory historical statistical limits were used to evaluate the VOC analytical results while benzo(k)fluoranthene was evaluated according to QAPP limits for its isomer benzo(b)fluoranthene. The analytical results are presented in Table 1. The laboratory variations from the AFCEE QAPP and case narratives are included as attachments to this memorandum.

The data were qualified in accordance with the validation protocols in the AFCEE QAPP, Version 3.0 (March 1998). Qualifiers resulting from the validation process were incorporated into Table 1. Table 2 is a summary of qualified results and the rationale behind the data qualification. The laboratory performed the initial review of the data package, and qualified the data in accordance with the AFCEE QAPP requirements. Final qualification of the data was made by the Versar project chemist based on results of the data validation. The following items were reviewed during the data validation process: chain of custody, sample condition upon receipt, extraction/analysis holding times, method detection/reporting limits, internal standards, surrogates, matrix spike/matrix spike duplicate (MS/MSD) analysis results, laboratory control sample (LCS) recoveries, initial and continuing calibrations, second source calibration verification standards, laboratory method and field QC blank contamination, instrument tuning, and report completeness.

The hierarchy of AFCEE qualifiers from most to least severe are as follows; "R" (rejected), "M" (matrix effect present), "F" (results above method detection limit, but below reporting limit), "J" (estimated value), "B" (blank contamination), "U" (not detected) and "D" (sample analyzed at a dilution).

Samples were received by Kemron intact and under proper chain-of-custody. The temperatures of the sample coolers upon receipt at the laboratory were 4 and 6°C.

2.0 VALIDATION

Volatile Data (Method 8260B)

All project specific QC criteria were met, except as indicated below:

In the Volatile Second Source Calibration standard (SSC), %difference (%D) results for Dichlorodifluoromethane exceeded the control limits specified in the AFCEE QAPP (25.6% versus criteria of $\%D \leq 25\%$). Excessive variations in the results for the second source standard may indicate problems with the initial calibration for that compound. This compound was not detected in any of the associated samples. Per the QAPP non-detects (reporting limits) for Dichlorodifluoromethane are qualified "R". However, the deviation from criteria is minimal and should not impact the laboratory's ability to detect this compound.

In the Continuing Calibration Verification (CCV) run on 12/13/00, %D results for the compounds Chloromethane (28.8%), Bromomethane(29.1%) and Dichlorodifluoromethane (21.7%) exceeded the %D limits ($\leq 20\%$) specified in the AFCEE QAPP. In the CCV run on 12/14/00 the results for the compound Dichlorodifluoromethane (23%) and Bromomethane (20.9%) exceeded the control limits specified by the AFCEE QAPP. Positive results for these compounds in the samples run on the same date as the non-compliant CCV are qualified "R" per the QAPP. None of these compounds were detected in the associated samples. The deviation from criteria was minimal and should not impact the laboratory's ability to detect these compounds.

No target analytes were detected above the reporting limit (RL) in the laboratory method blanks. Trace levels ($> \text{MDL}$ but $< \text{RL}$) of several target analytes were detected. 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene and 1,2,4-Trimethylbenzene were detected in each of the method blanks. Per the QAPP, qualification is only required for blank contamination above the PQL. The field results however are similar in magnitude to the observed blank contamination, therefore positive results for these compounds in the associated field samples should be considered either artifacts or biased high as a result of the observed laboratory contamination and therefore not representative of actual field conditions.

In the Volatile Laboratory Control Sample (LCS) analyzed on 12/14/00, the results for Dichlorodifluoromethane, was greater than the control limits in the AFCEE QAPP. The LCS analyzed on 12/15/00 yielded results for Dichlorodifluoromethane and 1,1,1,2-Tetrachloroethane that were all above the control limits specified in the

AFCEE QAPP. These results indicate the possibility of high bias; none of these compounds were reported in any of the associated samples, therefore no qualification is required.

Volatile surrogate recovery was acceptable for all samples.

In the MS/MSD analyses (performed on sample PAFB-SS03), poor precision and/or low bias was observed for a number of volatile compounds. The associated LCS results were acceptable indicating a matrix effect is likely responsible for the other observed out of control recoveries and poor precision. Associated results in this sample have been qualified with a "M". None of these compounds were detected in any of the other field samples. The bias should not preclude the use of these results to demonstrate compliance with action levels.

Several target analytes were detected below the RL but above the MDL. They are considered to be trace levels and were qualified "F" in accordance with the QAPP. Results for 1,2,4-Trimethylbenzene are suspected to be an artifact of laboratory blank contamination. The results for the other compounds are considered to be qualitatively acceptable but quantitatively suspect due to poor analytical precision near the limit of detection.

Semivolatile Data (Method 8270C)

All project specific QC criteria were met, except as indicated below.

In the initial calibration, the laboratory reported that several target compounds were more accurately quantitated using a linear regression (hexachlorocyclopentadiene, 2,4,6-tribromophenol and di-n-octyl phthalate), or a quadratic 2nd order curve (benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-2-methyl phenol and pentachlorophenol) than by using an average response factor. Linearity acceptance criteria as specified in Table 7.2.10-3 of the AFCEE QAPP were met for these compounds. Minimum response factor and % relative standard deviation (%RSD) criteria as specified in Table 7.2.10-3 of the AFCEE QAPP were met for all other compounds.

The second source calibration (SSC) standard results did not meet criteria ($\%D \leq 25\%$) for several target analytes in the initial calibrations associated with this project. The following exceeded the QC acceptance limits for % difference relative to the initial calibration: 4-chloroaniline (-56.6%), 3,3'-dichlorobenzidine (27.7%) and 3-nitroaniline (50.9%, 12/8/00 calibration on instrument MS4); 4-chloroaniline (-44.4%), 2-nitrophenol (29.6%), and 3-nitroaniline (-71.6%, 12/16/00 calibration on instrument MS5); and benzoic acid (-25.9%) and di-n-octylphthalate (28.4%) (12/21/00 on instrument MS5). Per the AFCEE QAPP, the results for these compounds are qualified "R" in the associated samples.

In the Continuing Calibration Verification (CCV) analyses, the % difference for hexachlorocyclopentadiene (29.5%) on 12/17/00 (MS5); bis(2-chloroisopropyl)ether (24.9%) on 12/19/00(MS4) and 4-Nitroaniline (22.8%) on 12/22/00 (MS5) exceeded calibration quality control criteria ($\leq 20\%$). Calibration results indicate that instrument sensitivity

for these compounds was marginally lower on the dates in question. In accordance with the AFCEE QAPP, the results for these compounds in the associated samples are qualified "R". None of these compounds were detected in any of the associated samples. Minor exceedences of daily calibration drift or SSC criteria typically have no impact on the laboratory's ability to detect a compound providing that sensitivity is acceptable. The non-detect results for these analytes should be acceptable for use.

No target analytes were detected above the MDL in the method blanks associated with this project.

QC acceptance criteria for the semi-volatile LCS were not met for 2-chloronaphthalene and hexachlorocyclopentadiene in the first LCS sample prepared on 12/14/00, while Benzoic acid was non-compliant in the second LCS prepared on that date. Associated samples are qualified "R" per the QAPP. See Table 2 for specific samples qualified. None of these compounds were detected in any of the associated samples and the LCS results are indicative of low bias.

Sample PAFB-05B exhibited low recovery for one surrogate. The sample was re-extracted and reanalyzed with similar results confirming a matrix effect. The results from the re-analysis were reported by the laboratory. Compounds associated with this surrogate, as specified in the QAPP, have been qualified R and are subject to low bias. See Table 2 for a listing of the impacted analytes.

A suspected matrix effect resulting in suppression of the recovery of the last internal standard was observed for numerous samples mostly from the pit (PAFB-P##) and sidewall (PAFB-S##) locations. Compounds of the polynuclear aromatic hydrocarbon (PNA) class were directly affected. It is suspected that this matrix effect is the result of asphaltic background particulate contained within the samples. All samples with non-compliant internal standard recoveries (typically carcinogenic PNAs) were re-analyzed by the laboratory with similar results. Results from the re-analysis were reported. Many of these samples with non-compliant internal standard areas were initially analyzed at a 2-fold or 5-fold dilution based on the color and viscosity of the sample extracts, resulting in a corresponding two to five-fold elevation of the reporting limits. Compounds quantitated using the non-compliant internal standard are qualified "R" per the QAPP. Specific compounds qualified are listed in Table 2. Multiple compounds were detected in the affected samples. Sample PAFB-S05 was also analyzed at a subsequent 20-fold dilution and the internal standard recovery was acceptable. Results for the impacted analytes in PAFB-S05 should be used from the 20-fold dilution even though they are associated with elevated reporting limits. All other analytes are reported from the original five-fold dilution. These PNA results should be considered qualitative identification of the target analytes, are quantitatively suspect, but serve as a lower estimate of the actual level of analyte present in the sample. Eleven of thirty PNA sample runs were flagged "R".

Qualified "R" PNA results were evaluated using general parameters outlined in Chapter 6 of *EPA-QA/G-4, Guidance for the Data Quality Objectives Process* (EPA/600/R-96/055, August 2000). Chapter 6 of this guidance

document deals with specifying tolerable limits on decision errors. Specifically, seven activities should be conducted to determine a tolerable probability for the occurrence of decision errors. These are:

- Determine source of error in the sample set data (described above)
- Establish a plausible range of values (assume a range of value from non-detect to cleanup objective order of magnitude)
- Evaluate two types of potential errors & their consequences (1: include data as lower estimate of value {conditionally accept}. This could lead to false negatives, or values with a low bias. 2: reject all R-flagged data. This would result in a data set diminished by 1/3, and a re-sampling event {possibly using different SW-846 methodology, such as Method 8310} might be required for PNAs.
- Determine how to handle decision errors: (Decision errors will be minimized due to minimal human exposure with the proposed remedial solution).
- Select the baseline condition of the environment assumed to be true in the absence of overwhelming evidence to the contrary (obtained values will be compared to valid PNA data within the same sample. PNA contaminants usually exist together at similar concentrations. In most cases, a deduction of precision can be made within a sample based on concentrations of other PNAs).
- Specify a range of possible parameter values where consequences of a false acceptance decision error (gray region) are considered tolerable (assume a range of value from non-detect to cleanup objective order of magnitude as gray area. Most R-flagged samples are within this range. Exception to this are carcinogenic PNAs contained in sample PAFB-S05, with a 20-fold dilution, which falls outside of the above-defined "gray area".)

Based on the above criteria, it is recommended to conditionally accept R-flagged carcinogenic PNAs, with the exception of sample PAFB-S05, as shown on Table 2.

Samples PAFB-S08 and PAFB-B01 were selected by the laboratory for MS/MSD analysis. Naphthalene, hexachlorocyclopentadiene and 2-chloronaphthalene were biased low in PAFB-S08, while benzoic acid was biased low in PAFB-B01. Naphthalene was acceptable in the associated LCS while the other compounds were non-compliant. All of these compounds were acceptable in the associated continuing calibration verifications. All results are qualified "M" per the QAPP, however only naphthalene has been confirmed as a matrix effect as acceptable system control was not demonstrated for the other "M" flagged compounds.

Numerous target analytes were detected below the RL but above the MDL. They are considered to be trace levels and were qualified "F" in accordance with the QAPP. These are considered to be qualitatively acceptable but quantitatively suspect due to poor analytical precision near the limit of detection. These were mainly compounds of the PNA class. See discussion above for an evaluation of PNAs. All F-flagged PNA analyses are deemed to be conditionally acceptable.

Metals Data (Methods 6010B, 7841, 7471)

All project specific QC criteria were met and all results are acceptable for use, except as indicated below.

Samples PAFB-P01, and PAFB-B02 was used as the MS/MSD for samples analyzed for metals by Method 6010B, 7841, and 7471. Lead and antimony exhibited low bias in PAFB-P01, while aluminum, magnesium, manganese, calcium and iron had poor precision and antimony were biased low in PAFB-B02. Analytical control was demonstrated by acceptable LCS recoveries, therefore the observed biases are likely due to a matrix effect. Metals associated with matrix spike bias and or poor precision are qualified "M" for use as estimates per the QAPP.

Numerous target analytes were detected below the RL but above the MDL. They are considered trace levels and were qualified "F" in accordance with the QAPP. These results are qualitatively acceptable but quantitatively suspect due to poor analytical precision near the limit of detection.

Field Duplicate Evaluations

Samples PAFB-B09A/ PAFB-B09B, PAFB-P05A / PAFB-P05B and PAFB-S07A/PAFB-S07B were field duplicate pairs. No QAPP criteria exist for field duplicate analyses, therefore matrix spike/matrix spike RPD criteria as defined in the QAPP were used for evaluation purposes for results greater than 5 x RDL (other results were evaluated against criteria of ± 2 x RDL). This evaluation scheme is based on guidance presented for the evaluation of field duplicates in "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA-540/R-94-013. Field duplicate results are summarized in Table 3.

No VOC target analytes were detected above the RDL in any of the samples. Trace levels were detected in several of the samples. Results for 1,2,4-trimethylbenzene have already been identified as suspected laboratory artifacts. No criteria in the QAPP exists for the evaluation of field duplicates. For results less than 5 x RDL, criteria of ± 2 x RDL is commonly used. All positive results met guidance of ± 2 x RDL, therefore acceptable field precision was demonstrated for VOCs.

No SVOC target analytes were detected above the RDL in any of the samples, therefore acceptable field precision was demonstrated for SVOCs. Trace levels (below the RDL) or concentrations just near the RDL were detected for numerous polynuclear aromatics (PNAs) in all samples. All positive results met guidance of ± 2 x RDL, therefore acceptable field precision was demonstrated for SVOCs.

Acceptable precision ($RPD \leq 20\%$ or ± 2 x RDL) was demonstrated for all metals except aluminum, barium, calcium, iron, lead, manganese, potassium and vanadium in the samples collected from site B09, magnesium and manganese at site P05 and calcium from site S07. As the daily LCS met criteria, the poor precision is likely due to

sample heterogeneity. Metals associated with poor field precision are qualified "J" for use as estimates. The actual concentration is somewhere in the range bordered by the results from the 2 sample analyses.

3.0 COMPLETENESS

The AFCEE QAPP goal for completeness is 90% for soil matrixes. Percent completeness is defined as the number of valid results divided by the total number of individual target compound results. Valid results are those that have not been rejected (qualified "R"). The percent completeness for each method and matrix is as follows:

| <u>Method</u> | <u>Matrix</u> | <u>Percent Completeness</u> |
|-------------------------|---------------|-----------------------------|
| Volatiles (SW8260B) | Soil | 96.8% |
| Semivolatiles (SW8270C) | Soil | 89.2% |
| Metals | Soil | 100% |

The completeness goal of 90% was met for the soil samples except for semivolatiles. Approximately 3% of the SVOC results were qualified "R" for problems that have been confirmed by the laboratory as a matrix effect (non-compliant internal standard areas and low surrogate recoveries) and therefore outside of the control of the laboratory. Exclusive of these results %completeness for SVOCs rises to 92.1%. Overall percent completeness for all parameters was 94%.

ATTACHMENTS

VARIANCES

AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
ENVIRONMENTAL RESTORATION SERVICES
BROOKS AFB, TX 78235

29 Nov 00

MEMORANDUM FOR HQ AFCEE/ERB

ATTENTION: Roy Willis/RTC/Plattsburg AFB

FROM: Burt Harrison
Environmental Chemistry Consultant
AFCEE/ERC
3207 North Road
Brooks AFB, Tx 78235

SUBJECT: Environmental Chemistry Review of the Kemron Laboratory QAPP
Variances Prepared by Versar for the Plattsburg AFB Project.

References: (a) Handbook for the Installation Restoration Program (IRP) - Remedial Investigation/Feasibility Studies (RI/FS), AFCEE, Sept. 1993. (b) U.S. EPA Test Methods for Evaluating Solid Wastes (SW 846), third edition, July 1992. (c) HQ AFCEE Quality Assurance Project Plan, March 1998.

A review of the Quality Assurance Project Plan variances for the Plattsburg AFB, NY project prepared by Versar are acceptable with the following exceptions. Recommend sample results be reported on a dry weight basis except for SW5035 samples where it is not possible. Concur with all Reporting Limit variances if approved by the New York State RPM and the USEPA RPM. Do not concur with calibration variances. Do not concur with recovery limits lower than 20% for any analyte for any analytical procedure. Concur with the MDL variance request after a survey of a number of AFCEE laboratories concerning this MDL issue requirement.

If you have any questions regarding this review or these comments, please contact me at (210) 536-5226.

Burt Harrison
Environmental Chemistry Consultant
Consultant Operations Division
AFCEE/ERC

QAPP Section 4.3.1 - MDL Spike Levels

AFCEE REQUIREMENT:

Item (6) of Section 4.3.1 states "If the spike level in step 2 is more than five times the calculated MDL, repeat the process using a smaller spiking level."

VARIANCE REQUEST:

The laboratory requests a variance to change "five times" to read "ten times".

JUSTIFICATION:

The analytes that fail the "five times" criteria are on those instruments or methods that are very precise and have low relative standard deviations. Any procedure with a relative standard deviation less than 6.67% (at the spiked level) will produce MDLs that do not meet the "five times" criteria. Furthermore, this process tends to underestimate the MDL, so repeating the process at a lower spiking level may not produce meaningful data, particularly, if the spike level is below the quantitation limit (lowest calibration standard).

If so desired, the MDLs for those few analytes that fail the "five times" criteria MDL could be assigned a value equal to one-tenth the spike level, or one-half the project required RL, whichever is higher. This will assure that all project DQOs related to the MDLs and RLs will be met.

KEMRON meets the EPA criteria that the spike concentration should not exceed ten times the estimated MDL and AFCEE has accepted this interpretation on previous projects.

QAPP Section 8.2 - Wet Weight vs. Dry Weight

AFCEE REQUIREMENT:

Section 8.2 of the AFCEE QAPP V3.0 requires that "A wet weight aliquot of sample equivalent to the method specified dry weight aliquot of sample shall be taken for analysis."

KEMRON VARIANCE REQUEST:

The laboratory requests a variance to allow the method prescribed sample weights to be determined on the "as-received" basis, as specified in SW846.

JUSTIFICATION:

- 1) Increasing the amount of wet weight changes the sample/solvent ratios, which may significantly reduce the recovery of analytes from the matrix, resulting in poor surrogate recovery and more R flagged data. Altering the sample/solvent reagent ratios is a direct violation of the SW-846 methods.
- 2) Organic extraction methods such as 3540, 3545 and 3550 have a limit on the quantity of sample they can effectively process.
- 3) The QAPP procedure cannot be applied to samples collected by method 5035 for volatile organic analysis.

QAPP Section 7.1.9-1 SW8260 Reporting Limits

KEMRON VARIANCE REQUEST:

Reporting limit (RL) variances for the following analytes:

| Analyte | AFCEE RL (ug/L) | Proposed RL (ug/L) |
|---------------------------|-----------------|--------------------|
| 1,1,2,2 Tetrachloroethane | 0.4 | 0.8 |
| 1,1-Dichloroethane | 0.4 | 0.5 |
| 1,2,3-Trichlorobenzene | 0.3 | 1 |
| 1,2,4-Trichlorobenzene | 0.4 | 2 |
| 1,2-Dichlorobenzene | 0.3 | 1 |
| 1,2-Dichloropropane | 0.4 | 0.5 |
| 1,3-Dichloropropane | 0.4 | 0.5 |
| 1-Chlorohexane | 0.5 | 1 |
| 1,4-Dichlorobenzene | 0.3 | 1 |

| | | |
|------------------------|-----|-----|
| 2-Chlorotoluene | 0.4 | 1 |
| Benzene | 0.4 | 0.5 |
| Bromobenzene | 0.3 | 1 |
| Bromochloromethane | 0.4 | 0.5 |
| Bromodichloromethane | 0.8 | 1 |
| Chlorobenzene | 0.4 | 0.5 |
| Chloroform | 0.3 | 0.5 |
| Ethylbenzene | 0.6 | 1 |
| Methylene Chloride | 0.3 | 2 |
| n-propylbenzene | 0.4 | 1 |
| Naphthalene | 0.4 | 1 |
| Styrene | 0.4 | 1 |
| Trichlorofluoromethane | 0.8 | 1 |
| Dibromochloromethane | 0.5 | 0.6 |
| 1,2-Dichloroethane | 0.6 | 0.7 |
| m,p-Xylene | | 1 |

JUSTIFICATION:

The laboratory low calibration standard is not at the AFCEE RL. The proposed RL will meet the project requirements.

AFCEE REQUIREMENT:

Table 7.2.9-1 lists m-Xylene and p-Xylene as separate analytes.

KEMRON VARIANCE REQUEST:

KEMRON requests a variance to report m-Xylene and p-Xylene as one analyte, since the compounds co-elute.

QAPP Section 7.2.9 SW5035 Preservation

VARIANCE REQUEST:

KEMRON requests that method 5035 soil preservation be limited to freezing and that the holding time be accepted as 14 days.

JUSTIFICATION:

This variance is needed to prevent the degradation of performance of several (\$260) target analytes and the failure of these analytes to meet the QAPP 3.0 quality control requirements for the second source verification and continuing calibration verification (CCV). The analytes most affected by affected by the sodium bisulfate are chlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and trichlorofluoromethane. These compounds have a high probability of failing ICV/CCV criteria, resulting in R flags on all samples. Using the freezing option will eliminate these problems. The freezing option and 14-day hold time is being accepted by some states and selected US-EPA regions.

QAPP Section 7.2.9 SW5035 Preservation

VARIANCE REQUEST:

KEMRON requests a variance to change the second source initial calibration verification (ICV) and continuing calibration verification (CCV) criteria from +/- 25 % to +/- 40% for chlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and trichlorofluoromethane.

JUSTIFICATION:

These compounds are very prone to ICV/CCV failure when sodium bisulfate is used as a preservative. Without the variance these compounds will probably have to be R-flagged.

QAPP Section 7.2.10 SW8210 Surrogate Control Limit

AFCEE REQUIREMENT:

Table 7.2.10-2 lists the acceptance limit for phenol-D5 as 25-125 % recovery in water.

KEMRON VARIANCE REQUEST:

KEMRON requests a variance to use 10 - 125 % recovery as the acceptance limit in water

JUSTIFICATION:

Phenol recovery above 10% is not achievable routinely due to poor extraction efficiency. Industry-wide statistics do not support the 25 – 125 % recovery limit.

QAPP Section 7.2.10 SW8270 LCS Control Limits

AFCEE REQUIREMENT: see table below

VARIANCE REQUEST:

LCS Control Limit variances for 8270 compounds in water:

| Compound | AFCEE LCS LIMITS | PROPOSED LCS LIMITS |
|---------------------------|----------------------------|---------------------|
| Phenol | 25-125 | 20-125 |
| 2-Chloronaphthalene | 60-125 | 49-120 |
| Hexachlorocyclopentadiene | Delete as a target analyte | |
| Benzoic Acid | 25-162 | 20-125 |
| 3,3'-Dichlorobenzidine | 29-175 | 20-125 |
| Phenol-d5 (surrogate) | 25-125 | 20-125 |

JUSTIFICATION:

These compounds are industry-wide poor performers and consistently give recoveries below the AFCEE lower control limits. Hexachlorocyclopentadiene has been proposed for deletion as an analyte from the AFCEE 3.1 QAPP. The proposed limits are taken from the AFCEE 3.1 QAPP.

QAPP Section 7.2.15-J SW6010B ICP

KEMRON VARIANCE REQUEST:

Reporting limit (RL) variances for the following analytes in water:

| Analyte | AFCEE RL (mg/L) | Proposed RL (mg/L) |
|---------|-----------------|--------------------|
| Zinc | 0.01 | 0.02 |

JUSTIFICATION:

The proposed RL will meet the project requirements.

QAPP Section 7.2.17-27 SW7000 Method Variance - Water

AFCEE REQUIREMENT:

AFCEE projects often specify that arsenic, antimony, chromium, cadmium, lead, selenium, thallium and vanadium shall be performed by their respective 7000 – GFAA methods:

| Metal | Method | AFCEE RL (mg/L) |
|----------|--------|-----------------|
| Arsenic | 7060A | 0.005 |
| Chromium | 7191 | 0.005 |
| Cadmium | 7131A | 0.001 |
| Lead | 7421 | 0.005 |
| Vanadium | 7911 | 0.004 |
| Antimony | 7041 | 0.005 |
| Selenium | 7740 | 0.005 |
| Thallium | 7841 | 0.001 |

KEMRON VARIANCE REQUEST:

Method Variance:

KEMRON requests a variance to use Method 6010B or 6020A in lieu of the GFAA methods. Analyzing these metals by ICP-AES or ICP-MS will not elevate the reporting limits, but will eliminate the inherent errors of GFAA methods:

| Metal | Method | Proposed RL (mg/L) |
|----------|-------------|--------------------|
| Arsenic | 6010B/6020A | 0.005 |
| Chromium | 6010B | 0.005 |
| Cadmium | 6010B | 0.001 |
| Lead | 6010B/6020A | 0.005 |
| Vanadium | 6010B | 0.004 |
| Antimony | 6020A | 0.005 |
| Selenium | 6020A | 0.005 |
| Thallium | 6020A | 0.001 |

JUSTIFICATION:

The proposed RLs are equal to the 7000 method RLs and meet the project DQOs.

GAPP Section 7.2.17-17 SW 7000 Method Variance - Soil

AFCEE REQUIREMENT:

AFCEE DQOs often specifies that arsenic, antimony, selenium, thallium, chromium, cadmium, lead and vanadium be performed by their respective 7000 -- GFAA methods:

KEMRON VARIANCE REQUEST:

Method Variance:

KEMRON requests a variance to use Method 6010B or 6020A in lieu of the GFAA methods. KEMRON will use a method that will meet the project action limits, either by ICP-AES or ICP-MS. The following RLs are proposed:

| | AFCEE 7000 RL (mg/kg) | Proposed 6010 RL (mg/kg) | Proposed 6020A RL (mg/kg) |
|----------|--------------------------|-----------------------------|------------------------------|
| Antimony | 0.5 | 1 | 0.2 |
| Arsenic | 0.5 | 1 | 0.5 |
| Lead | 0.5 | 1 | 0.5 |
| Selenium | 0.5 | 1 | 0.5 |
| Vanadium | 0.4 | 0.5 | N/A |
| Chromium | 0.5 | 0.5 | N/A |
| Cadmium | 0.1 | 0.1 | N/A |
| Thallium | 0.1 | 2 | 0.1 |

JUSTIFICATION:

Project DQOs will not be affected, and the inherent errors of GFAA methods will be eliminated.

GAPP Section 7.2.17-17 SW 7000 Reporting Limits - Soil

KEMRON VARIANCE REQUEST:

Reporting limit variance for the following analyte:

| Analyte | AFCEE RL (mg/kg) | Proposed RL (mg/kg) |
|----------|------------------|---------------------|
| Thallium | 0.1 | 0.25 |

JUSTIFICATION:

The laboratory MDL does not support the AFCEE RL. This variance is needed if 7000 methods are required.

KEMRON VARIANCE REQUEST:

Reporting limit variance for the following analyte:

| Analyte | AFCEE RL (mg/L) | Proposed RL (mg/L) |
|----------|-----------------|--------------------|
| Thallium | 0.001 | 0.005 |
| Antimony | 0.005 | 0.006 |

JUSTIFICATION:

The laboratory MDLs for the 7000 methods do not support the AFCEE RL. This variance is needed if 7000 methods are required.

CHAIN OF CUSTODIES

Company Name: **VEASAR**
 Project Contact: **BRYAN FOLEY** (25) 913 1132
 Turn Around Requirements: **STATEN ARD**
 Location: **WATTSBURGH, NY**
 Project #: **4571-441**
 Project Name: **C-3 B LANDFILL**
 Sampler (print): **BRYAN FOLEY**
 Signature: *[Signature]*

Mail Report To: **ALICE HARRIS KENNEDY**
1900 HOUSTON BL. SUITE 110
BRISBANE, PA 19007

Program
 NPDES
 AFCEE
 RCRA
 USAGE
 Other

| ERPIMS REQUIRED FIELDS | SACODE | LOT CONTROL NUMBERS | | |
|------------------------|--------|---------------------|--------|--------|
| | | COOLER ID | ABLLOT | TBLLOT |
| | | | | |

| Sample I.D. No | Location I.D. | SBD | SFD | Date | Time | Comp | Grab | NUMBER OF CONTAINERS | Comments | Reinquinshed by: (Signature) | Date | Time | Received by: (Signature) |
|----------------|---------------|-----|-----|---------|------|------|------|----------------------|----------------------------|------------------------------|------|------|--------------------------|
| | | | | | | | | | | | | | |
| PAFB-201 | | | | 12/7/00 | 8:10 | X | X | 3 | TAL METALS AF98 827-AF8 | | | | |
| PAFB-202 | | | | 8:20 | X | X | X | 3 | | | | | |
| PAFB-203 | | | | 8:30 | X | X | X | 3 | | | | | |
| PAFB-204 | | | | 8:40 | X | X | X | 3 | | | | | |
| PAFB-205A | | | | 8:50 | X | X | X | 3 | | | | | |
| PAFB-205B | | | | 9:00 | X | X | X | 3 | | | | | |
| PAFB-206 | | | | 9:10 | X | X | X | 3 | | | | | |
| PAFB-207 | | | | 9:20 | X | X | X | 3 | | | | | |
| PAFB-208 | | | | 9:25 | X | X | X | 3 | | | | | |
| PAFB-501 | | | | 9:35 | X | X | X | 3 | | | | | |
| PAFB-502 | | | | 9:40 | X | X | X | 3 | | | | | |
| PAFB-503 | | | | 9:45 | X | X | X | 3 | | | | | |
| PAFB-504 | | | | 9:45 | X | X | X | 3 | | | | | |
| PAFB-505 | | | | 9:50 | X | X | X | 3 | | | | | |
| PAFB-506 | | | | 9:55 | X | X | X | 3 | | | | | |
| PAFB-507A | | | | 10:00 | X | X | X | 3 | | | | | |
| PAFB-507B | | | | | | | | | | | | | |
| PAFB-507C | | | | | | | | | | | | | |
| PAFB-507D | | | | | | | | | | | | | |
| PAFB-507E | | | | | | | | | | | | | |

Relinquished by: *[Signature]* Date: **12/11/00** Time: **1001** Cooler Temp in °C: **4**
 Received for Laboratory by: *[Signature]* Date: **12/11/00** Time: **1001** Cooler Temp in °C: **4**
 Relinquished by: *[Signature]* Date: **12/11/00** Time: **1001** Cooler Temp in °C: **4**
 Received by: *[Signature]* Date: **12/11/00** Time: **1001** Cooler Temp in °C: **4**
 Remarks: **OK Oleged. Scientist**



COC No. B 13152

109 Starlite Park
Marietta, OH 45750

Phone: 740-373-4071
Fax: 740-373-4835

CHAIN-OF-CUSTODY RECORD

Company Name: VERSA

Project Contact: Bryan Foley
Contact Phone #: 25913132

Turn Around Requirements: STANDARD
Location: PLATSBURG NY

Project #: 4501.441
Project Name: C3D LAND FILL

Sampler (print): Bryan Foley
Signature: [Signature]

| Sample I.D. No | Location I.D. | GB | SED | Date | Time | Comp. | Grab | NUMBER OF CONTAINERS | Comments | SACODE | COOLER ID | ERPIMS REQUIRED FIELDS | | | LOT CONTROL NUMBERS | | | Received by: (Signature) | Date | Time | Remarks |
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| | | | | | | | | | | | | ABLOT | EBLOT | TBLOT | ABLOT | EBLOT | TBLOT | | | | |
| PAFB-SPO9 | | | | 12:15 | 12:05 | X | X | 2 | TAL METAL - AFB 829 - AFB | | | | | | | | | | | | |
| PAFB-SP10 | | | | 12:10 | 12:10 | X | X | 2 | | | | | | | | | | | | | |
| PAFB-SP11 | | | | 12:15 | 12:15 | X | X | 2 | | | | | | | | | | | | | |
| PAFB-SP12 | | | | 12:20 | 12:20 | X | X | 2 | | | | | | | | | | | | | |
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Received by: [Signature] Date: 12/11/00 Time: 1001

Remarks: 0 C Deleted
SP UNCONTACTED

25

* Homogenize all composite samples prior to analysis

CASE NARRATIVES

TEST CER
 KEMRON Environmental Services
 109 Starlite Park
 Marietta, Ohio 45750
 Phone: (740) 373-4071

Versar, Inc. Division 35
 1900 Frost Road
 Suite 110
 Bristol, PA 19007
 Attention: Rich Habrukowich

Login #: L0012228
 Report Date: 12/28/00
 Work ID: C&D LANDFILL
 Date Received: 12/11/00

PO Number:
 Account Number: VERSAR-PA-318

SAMPLE IDENTIFICATION

| Sample Number | Sample Description | Sample Number | Sample Description |
|---------------|--------------------|---------------|--------------------|
| L0012228-01 | PAFB-P01 | L0012228-02 | PAFB-P02 |
| L0012228-03 | PAFB-P03 | L0012228-04 | PAFB-P04 |
| L0012228-05 | PAFB-P05A | L0012228-06 | PAFB-P05B |
| L0012228-07 | PAFB-P06 | L0012228-08 | PAFB-P07 |
| L0012228-09 | PAFB-P08 | L0012228-10 | PAFB-S01 |
| L0012228-11 | PAFB-S02 | L0012228-12 | PAFB-S03 |
| L0012228-13 | PAFB-S04 | L0012228-14 | PAFB-S05 |
| L0012228-15 | PAFB-S06 | L0012228-16 | PAFB-S07B |
| L0012228-17 | PAFB-S07A | L0012228-18 | PAFB-S08 |
| L0012228-19 | PAFB-S09 | L0012228-20 | PAFB-B01 |
| L0012228-21 | PAFB-B02 | L0012228-22 | PAFB-B03 |
| L0012228-23 | PAFB-B04 | L0012228-24 | PAFB-B05 |
| L0012228-25 | PAFB-B06 | L0012228-26 | PAFB-B07 |
| L0012228-27 | PAFB-B08 | L0012228-28 | PAFB-B09B |
| L0012228-29 | PAFB-B09A | L0012228-30 | PAFB-B10 |
| L0012228-31 | PAFB-B11 | L0012228-32 | PAFB-B12 |
| L0012228-33 | PAFB-B13 | L0012228-34 | PAFB-S10 |
| L0012228-35 | PAFB-S11 | L0012228-36 | PAFB-S12 |
| L0012228-37 | PAFB-SP01 | L0012228-38 | PAFB-SP02 |
| L0012228-39 | PAFB-SP03 | L0012228-40 | PAFB-SP04 |
| L0012228-41 | PAFB-SP05 | L0012228-42 | PAFB-SP06 |
| L0012228-43 | PAFB-SP07 | L0012228-44 | PAFB-SP08 |
| L0012228-45 | PAFB-SP09 | L0012228-46 | PAFB-SP10 |
| L0012228-47 | PAFB-SP11 | L0012228-48 | PAFB-SP12 |

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861



Certified By
David L. Bumgarner

**KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE**

L0012228

CHAIN OF CUSTODY:

The chains of custody numbers were 103151, 103150, 103154, and 103152.

SHIPMENT CONDITIONS:

The chain of custodies were received sealed in coolers. The cooler temperatures were 4 and 6° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Shayla B. Weyel DATE: 12-14-00

**REPORT NARRATIVE
GC/MS VOLATILE ORGANICS**

KEMRON Login No: L0012228

METHOD

Preparation: SW- 846 5030B

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The alternate source analyzed on HPMS-11 yielded a %D for dichlorodifluoromethane that exceeded the criteria of less than +/- 25%. All other acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on 12/13/00 on HPMS-11 yielded %D's for dichlorodifluoromethane, chloromethane and bromomethane that exceeded the criteria of less than +/- 20%.

The CCV analyzed on 12/14/00 on HPMS-11 yielded %D's for dichlorodifluoromethane and bromomethane that exceeded the criteria of less than +/- 20%. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 12/14/00 yielded a % recovery for dichlorodifluoromethane that was above the upper advisory limit.

The LCS analyzed on 12/15/00 yielded % recoveries for dichlorodifluoromethane and 1,1,1,2,-tetrachloroethane that were above the upper advisory limits. These recoveries would favor a false positive, or bias high result; however, none of these LCS outliers were detected in any of the associated samples above the reporting limits. All other acceptance criteria were met.

Matrix Spikes: Sample fraction 12 was chosen internally for MS/MSD analyses and yielded % recoveries for multiple compounds which were outside of the advisory limits.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

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Analyst: RSS

REVIEWED Stephan D. Lopez DATE: 12/21/00

Rev. 7/14/00

**REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS**

KEMRON Report No.: L0012228

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)

Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample fractions 03, 19, 37, 40, 41, 42, 43, 44, 45, 46 and 47 were analyzed at a 2x dilution and fractions 07, 10, 14, 38, 39 and 48 were analyzed at a 5x dilution due to appearance and viscosity.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The alternate source standard analyzed on HPMS4 on 12/8/00 yielded a %D for 4-chloroaniline, 3-nitroaniline and 3,3'-dichlorobenzidine that exceeded the criteria of less than +/-25%.

The alternate source standard analyzed on HPMS5 on 12/16/00 yielded a %D for 2-nitrophenol, 4-chloroaniline and 3-nitroaniline that exceeded the criteria of less than +/-25%.

The alternate source standard analyzed on HPMS3 on 12/17/00 yielded a %D for benzoic acid, 4-chloroaniline and 3-nitroaniline that exceeded the criteria of less than +/-25%.

The alternate source standard analyzed on HPMS5 on 12/21/00 yielded a %D for benzoic acid, 2,4-dinitrophenol and di-n-octyl phthalate that exceeded the criteria of less than +/-25%. In each case flags, were applied accordingly. All other acceptance criteria were met.

Continuing Calibration and Tune: The CCV analyzed on 12/17/00 on HPMS3 yielded a %D for hexachlorocyclopentadiene and 3,3'-dichlorobenzidine that exceeded the criteria of less than +/- 20%.

The CCV analyzed on 12/17/00 on HPMS4 yielded a %D for benzyl alcohol and bis(2-chloroisopropyl)ether that exceeded the criteria of less than +/- 20%.

The CCV analyzed on 12/17/00 on HPMS5 yielded a %D for hexachlorocyclopentadiene that exceeded the criteria of less than +/- 20%.

The CCV analyzed on 12/19/00 on HPMS4 yielded a %D for hexachlorocyclopentadiene that exceeded the criteria of less than +/- 20%.

The CCV analyzed on 12/20/00 on HPMS5 yielded a %D for 4-nitroaniline and 3,3'-dichlorobenzidine that exceeded the criteria of less than +/- 20%.

The CCV analyzed on 12/22/00 on HPMS5 yielded a %D for 4-nitroaniline that exceeded the criteria of less than +/- 20%. In each case flags were applied accordingly. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS associated with extraction lab volume 152 page 123 extracted on 12/14/00 yielded % recoveries for hexachlorocyclopentadiene and 2-chloronaphthalene that were below the lower advisory limits .

The LCS associated with extraction lab volume 152 page 141 extracted on 12/14/00 yielded a % recovery for benzoic acid that was below the lower advisory limits . Samples were flagged accordingly. All other acceptance criteria were met.

Matrix Spikes: Sample fractions 18, 20 and 42 were chosen internally for MS/MSD analyses.

SAMPLES

Internal Standards: Sample matrix interference with the internal standard in fractions 04, 05, 06, 07, 10, 12, 14, 15, 16, 17, 19, 38, 39, 44, 45, 47 and 48 was confirmed by reanalysis. Samples were flagged accordingly. All other acceptance criteria were met.

Surrogates: Sample fraction 06 yielded a % recovery for 2,4,6-tribromophenol that was below the lower control limit; the sample was re-extracted within hold with similar results. Sample fractions 34, 36 yielded % recoveries for p-terphenyl-d14 above the upper control limit. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

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Analyst: mdc

REVIEWED: Stephanie C. Dye DATE: 1/3/01

**REPORT NARRATIVE
METALS**

KEMRON Login No: L0012228

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met

Duplicate: WG89172 - Some sample nonhomogeneity was apparent in the duplicate analysis.

SAMPLES

All acceptance criteria were met.

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Analyst: SLP

REVIEWED:

Maren Beery DATE: 12/27/00

Rev. 6/00

TABLES

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| Collection Date | PAFB-B01 | | | PAFB-B02 | | | PAFB-B03 | | | | | |
|-----------------------------|-----------|----------|--------|-----------|----------|-------|-----------|----------|----------|-------|--------|---|
| Analysis Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| % Solids | 14-Dec-00 | | | 14-Dec-00 | | | 14-Dec-00 | | | | | |
| | 98 | weight % | RL | 94 | weight % | RL | 90 | weight % | RL | | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0041 | U | | mg/kg | 0.0043 | U | | mg/kg | 0.0044 | U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| 1,1-Dichloroethane | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,1-Dichloroethene | | mg/kg | 0.0061 | U | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U |
| 1,1-Dichloropropene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,2,3-Trichloropropane | | mg/kg | 0.02 | U | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,2,4-Trimethylbenzene | 0.000306 | mg/kg | 0.0071 | F | 0.000287 | mg/kg | 0.0074 | F | 0.000333 | mg/kg | 0.0078 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| 1,2-Dibromoethane | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| 1,2-Dichlorobenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,2-Dichloroethane | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| 1,2-Dichloropropane | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| 1,3-Dichlorobenzene | | mg/kg | 0.0061 | U | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U |
| 1,3-Dichloropropane | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,4-Dichlorobenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1-Chlorohexane | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| 2,2-Dichloropropane | | mg/kg | 0.02 | U | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U |
| 2-Chlorotoluene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 4-Chlorotoluene | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| Benzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromobenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromochloromethane | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromochloromethane | | mg/kg | 0.0041 | U | | mg/kg | 0.0043 | U | | mg/kg | 0.0044 | U |
| Bromochloroethane | | mg/kg | 0.0061 | U | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U |
| Bromomethane | | mg/kg | 0.0051 | R | | mg/kg | 0.0053 | R | | mg/kg | 0.0056 | R |
| Carbon tetrachloride | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| Chlorobenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Chloroethane | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| Chloroform | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Chloromethane | | mg/kg | 0.0071 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U |
| Dibromochloromethane | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| Dibromomethane | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| Dichlorodifluoromethane | | mg/kg | 0.0051 | R | | mg/kg | 0.0053 | R | | mg/kg | 0.0056 | R |
| Ethylbenzene | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| Hexachlorobutadiene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| Isopropylbenzene | | mg/kg | 0.0082 | U | | mg/kg | 0.0085 | U | | mg/kg | 0.0089 | U |
| Methylene chloride | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Naphthalene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Styrene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Tetrachloroethene | | mg/kg | 0.0071 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U |
| Toluene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| Trichloroethene | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| Trichlorofluoromethane | | mg/kg | 0.0041 | U | | mg/kg | 0.0043 | U | | mg/kg | 0.0044 | U |
| Vinyl chloride | | mg/kg | 0.0092 | U | | mg/kg | 0.0096 | U | | mg/kg | 0.01 | U |
| cis-1,2-Dichloroethene | | mg/kg | 0.0061 | U | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| m,p-Xylene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| n-Butylbenzene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| n-Propylbenzene | | mg/kg | 0.002 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| o-Xylene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| p-Isopropyltoluene | | mg/kg | 0.0061 | U | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U |
| sec-Butylbenzene | | mg/kg | 0.0071 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U |
| tert-Butylbenzene | | mg/kg | 0.0071 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U |
| trans-1,2-Dichloroethene | | mg/kg | 0.0031 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U |
| trans-1,2-Dichloropropene | | mg/kg | 0.0051 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U |
| Acetone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| 2-Butanone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-B04 | | | PAFB-B05 | | | PAFB-B06 | | | | | |
|-----------------------------|-----------|----------|--------|-----------|----------|-------|-----------|----------|----------|-------|--------|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| Analysis Date | 14-Dec-00 | | | 14-Dec-00 | | | 14-Dec-00 | | | | | |
| % Solids | 95 | weight % | RL | 97 | weight % | RL | 96 | weight % | RL | | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0041 | U | | mg/kg | 0.0042 | U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U | | mg/kg | 0.0062 | U | | mg/kg | 0.0063 | U |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,2,4-Trimethylbenzene | 0.000284 | mg/kg | 0.0074 | F | 0.00032 | mg/kg | 0.0072 | F | 0.000271 | mg/kg | 0.0073 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U | | mg/kg | 0.0062 | U | | mg/kg | 0.0063 | U |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 1-Chlorohexane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| Benzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Bromobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Bromochloromethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Bromochloromethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0041 | U | | mg/kg | 0.0042 | U |
| Bromobenzene | | mg/kg | 0.0063 | U | | mg/kg | 0.0062 | U | | mg/kg | 0.0063 | U |
| Bromomethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0052 | R | | mg/kg | 0.0052 | R |
| Carbon tetrachloride | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| Chlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Chloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| Chloroform | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Chloromethane | | mg/kg | 0.0074 | U | | mg/kg | 0.0072 | U | | mg/kg | 0.0073 | U |
| Dibromochloromethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| Dibromomethane | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0052 | R | | mg/kg | 0.0052 | R |
| Ethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| Isopropylbenzene | | mg/kg | 0.0084 | U | | mg/kg | 0.0082 | U | | mg/kg | 0.0083 | U |
| Methylene chloride | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Naphthalene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Styrene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| Tetrachloroethene | | mg/kg | 0.0074 | U | | mg/kg | 0.0072 | U | | mg/kg | 0.0073 | U |
| Toluene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| Trichloroethene | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0041 | U | | mg/kg | 0.0042 | U |
| Vinyl chloride | | mg/kg | 0.0095 | U | | mg/kg | 0.0093 | U | | mg/kg | 0.0094 | U |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U | | mg/kg | 0.0062 | U | | mg/kg | 0.0063 | U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| m,p-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| n-Butylbenzene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| n-Propylbenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U |
| o-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U | | mg/kg | 0.0062 | U | | mg/kg | 0.0063 | U |
| sec-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0072 | U | | mg/kg | 0.0073 | U |
| tert-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0072 | U | | mg/kg | 0.0073 | U |
| trans-Dichloroethene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0031 | U |
| trans-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0052 | U |
| Acetone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| 2-Butanone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| Collection Date | PAFB-B07 | | | PAFB-B08 | | | PAFB-B09A (FD1) ¹ | | | | | |
|-----------------------------|-----------|----------|--------|-----------|----------|--------|------------------------------|----------|----------|-------|--------|---|
| | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| Analysis Date | 15-Dec-00 | | | 15-Dec-00 | | | 15-Dec-00 | | | | | |
| % Solids | 97 | weight % | RL | 95 | weight % | RL | 96 | weight % | RL | | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,1,1-Trichloroethane | | mg/kg | 0.0041 | U | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | | |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,1,2-Trichloroethane | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,1-Dichloroethene | | mg/kg | 0.0062 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | | |
| 1,1-Dichloropropene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | | |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2,4-Trimethylbenzene | 0.000299 | mg/kg | 0.0072 | F | 0.000316 | mg/kg | 0.0074 | F | 0.000302 | mg/kg | 0.0073 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.01 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| 1,2-Dibromoethane | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2-Dichloroethane | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,3-Dichlorobenzene | | mg/kg | 0.0062 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | | |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1-Chlorohexane | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | | |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 4-Chlorotoluene | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| Benzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromochloromethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromochloromethane | | mg/kg | 0.0041 | U | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | | |
| Bromomethane | | mg/kg | 0.0062 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | | |
| Bromomethane | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Carbon tetrachloride | | mg/kg | 0.01 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| Chlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Chloroethane | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Chloroform | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Chloromethane | | mg/kg | 0.0072 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| Dibromochloromethane | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| Dibromomethane | | mg/kg | 0.01 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| Dichlorodifluoromethane | | mg/kg | 0.0052 | R | mg/kg | 0.0053 | R | mg/kg | 0.0052 | R | | |
| Ethylbenzene | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| Hexachlorobutadiene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Isopropylbenzene | | mg/kg | 0.0082 | U | mg/kg | 0.0084 | U | mg/kg | 0.0083 | U | | |
| Methylene chloride | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Naphthalene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Styrene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Tetrachloroethene | | mg/kg | 0.0072 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| Toluene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Trichloroethene | | mg/kg | 0.01 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| Trichlorofluoromethane | | mg/kg | 0.0041 | U | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | | |
| Vinyl chloride | | mg/kg | 0.0093 | U | mg/kg | 0.0095 | U | mg/kg | 0.0094 | U | | |
| cis-1,2-Dichloroethene | | mg/kg | 0.0062 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | | |
| cis-1,3-Dichloropropene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| m,p-Xylene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| n-Butylbenzene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| n-Propylbenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| o-Xylene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| p-Isopropyltoluene | | mg/kg | 0.0062 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | | |
| sec-Butylbenzene | | mg/kg | 0.0072 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| tert-Butylbenzene | | mg/kg | 0.0072 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| trans-1,2-Dichloroethene | | mg/kg | 0.0031 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| trans-1,2-Dichloropropene | | mg/kg | 0.0052 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Acetone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| 2-Butanone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-B09B (FD1) ¹ | | | PAFB-B10 | | | PAFB-B11 | | | | |
|-----------------------------|------------------------------|----------|----|-----------|----------|--------|-----------|----------|-------|--------|---|
| Coll. Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | |
| Ana. Date | 15-Dec-00 | | | 15-Dec-00 | | | 15-Dec-00 | | | | |
| % Solids | 96 | weight % | RL | 97 | weight % | RL | 98 | weight % | RL | | |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| 1,1,1-Trichloroethane | mg/kg | 0.0042 | U | mg/kg | 0.0041 | U | mg/kg | 0.0041 | U | | |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,1,2-Trichloroethane | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| 1,1-Dichloroethane | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,1-Dichloroethene | mg/kg | 0.0063 | U | mg/kg | 0.0062 | U | mg/kg | 0.0061 | U | | |
| 1,1-Dichloropropene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| 1,2,3-Trichlorobenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,2,3-Trichloropropane | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.02 | U | | |
| 1,2,4-Trichlorobenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,2,4-Trimethylbenzene | mg/kg | 0.0073 | U | 0.000278 | mg/kg | 0.0072 | F | 0.000286 | mg/kg | 0.0071 | F |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| 1,2-Dibromoethane | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| 1,2-Dichlorobenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,2-Dichloroethane | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| 1,2-Dichloropropane | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,3,5-Trimethylbenzene | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| 1,3-Dichlorobenzene | mg/kg | 0.0063 | U | mg/kg | 0.0062 | U | mg/kg | 0.0061 | U | | |
| 1,3-Dichloropropane | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1,4-Dichlorobenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 1-Chlorohexane | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| 2,2-Dichloropropane | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.02 | U | | |
| 2-Chlorotoluene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| 4-Chlorotoluene | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| Benzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Bromobenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Bromochloromethane | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Bromochloromethane | mg/kg | 0.0042 | U | mg/kg | 0.0041 | U | mg/kg | 0.0041 | U | | |
| Bromobenzene | mg/kg | 0.0063 | U | mg/kg | 0.0062 | U | mg/kg | 0.0061 | U | | |
| Bromomethane | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| Carbon tetrachloride | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| Chlorobenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Chloroethane | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| Chloroform | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Chloromethane | mg/kg | 0.0073 | U | mg/kg | 0.0072 | U | mg/kg | 0.0071 | U | | |
| Dibromochloromethane | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| Dibromomethane | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| Dichlorodifluoromethane | mg/kg | 0.0052 | R | mg/kg | 0.0052 | R | mg/kg | 0.0051 | R | | |
| Ethylbenzene | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| Hexachlorobutadiene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| Isopropylbenzene | mg/kg | 0.0083 | U | mg/kg | 0.0082 | U | mg/kg | 0.0082 | U | | |
| Methylene chloride | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Naphthalene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Styrene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| Tetrachloroethene | mg/kg | 0.0073 | U | mg/kg | 0.0072 | U | mg/kg | 0.0071 | U | | |
| Toluene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| Trichloroethene | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| Trichlorofluoromethane | mg/kg | 0.0042 | U | mg/kg | 0.0041 | U | mg/kg | 0.0041 | U | | |
| Vinyl chloride | mg/kg | 0.0094 | U | mg/kg | 0.0093 | U | mg/kg | 0.0092 | U | | |
| cis-1,2-Dichloroethene | mg/kg | 0.0063 | U | mg/kg | 0.0062 | U | mg/kg | 0.0061 | U | | |
| cis-1,3-Dichloropropene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| m-,p-Xylene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| n-Butylbenzene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| n-Propylbenzene | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.002 | U | | |
| o-Xylene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| p-Isopropyltoluene | mg/kg | 0.0063 | U | mg/kg | 0.0062 | U | mg/kg | 0.0061 | U | | |
| sec-Butylbenzene | mg/kg | 0.0073 | U | mg/kg | 0.0072 | U | mg/kg | 0.0071 | U | | |
| tert-Butylbenzene | mg/kg | 0.0073 | U | mg/kg | 0.0072 | U | mg/kg | 0.0071 | U | | |
| trans-1,2-Dichloroethene | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | | |
| trans-1,2-Dichloropropene | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | mg/kg | 0.0051 | U | | |
| Acetone | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| 2-Butanone | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| Compound | PAFB-B12 | | | PAFB-B13 | | | | |
|-----------------------------|-----------|----------|--------|-----------|----------|--------|--------|---|
| | 7-Dec-00 | | | 7-Dec-00 | | | | |
| | 15-Dec-00 | | | 15-Dec-00 | | | | |
| % Solids | 96 | weight % | RL | 96 | weight % | RL | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,1,2-Trichloroethane | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| 1,1-Dichloropropene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,2,4-Trimethylbenzene | 0.000292 | mg/kg | 0.0073 | F | 0.00025 | mg/kg | 0.0073 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| 1,2-Dibromoethane | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,2-Dichloroethane | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1-Chlorohexane | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 4-Chlorotoluene | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| Benzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Bromobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Bromochloromethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Bromochloromethane | | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | |
| Bromomethane | | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| Bromomethane | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Carbon tetrachloride | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| Chlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Chloroethane | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Chloroform | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Chloromethane | | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| Dibromochloromethane | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| Dibromomethane | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| Dichlorodifluoromethane | | mg/kg | 0.0052 | R | mg/kg | 0.0052 | R | |
| Ethylbenzene | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| Hexachlorobutadiene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Isopropylbenzene | | mg/kg | 0.0083 | U | mg/kg | 0.0083 | U | |
| Methylene chloride | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Naphthalene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Styrene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Tetrachloroethene | | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| Toluene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Trichloroethene | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | |
| Vinyl chloride | | mg/kg | 0.0094 | U | mg/kg | 0.0094 | U | |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| cis-1,3-Dichloropropene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| m,p-Xylene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| n-Butylbenzene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| n-Propylbenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| o-Xylene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| sec-Butylbenzene | | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| tert-Butylbenzene | | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| trans-1,2-Dichloroethene | | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| trans-1,3-Dichloropropene | | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Acetone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| 2-Butanone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-P01 | | | PAFB-P02 | | | PAFB-P03 | | |
|-----------------------------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date | 13-Dec-00 | | | 13-Dec-00 | | | 13-Dec-00 | | |
| % Solids | 86 | weight % | RL | 93 | weight % | RL | 95 | weight % | RL |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0047 U | | mg/kg | 0.0043 U | | mg/kg | 0.0042 U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| 1,1-Dichloroethane | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,1-Dichloroethene | | mg/kg | 0.007 U | | mg/kg | 0.0065 U | | mg/kg | 0.0063 U |
| 1,1-Dichloropropene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,2,3-Trichloropropane | | mg/kg | 0.023 U | | mg/kg | 0.022 U | | mg/kg | 0.021 U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,2,4-Trimethylbenzene | | mg/kg | 0.0081 U | | mg/kg | 0.0075 U | | mg/kg | 0.0074 U |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.012 U | | mg/kg | 0.011 U | | mg/kg | 0.011 U |
| 1,2-Dibromoethane | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| 1,2-Dichlorobenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,2-Dichloroethane | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| 1,2-Dichloropropane | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| 1,3-Dichlorobenzene | | mg/kg | 0.007 U | | mg/kg | 0.0065 U | | mg/kg | 0.0063 U |
| 1,3-Dichloropropane | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1,4-Dichlorobenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 1-Chlorohexane | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| 2,2-Dichloropropane | | mg/kg | 0.023 U | | mg/kg | 0.022 U | | mg/kg | 0.021 U |
| 2-Chlorotoluene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| 4-Chlorotoluene | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| Benzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Bromobenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Bromochloromethane | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Bromochloromethane | | mg/kg | 0.0047 U | | mg/kg | 0.0043 U | | mg/kg | 0.0042 U |
| Bromobenzene | | mg/kg | 0.007 U | | mg/kg | 0.0065 U | | mg/kg | 0.0063 U |
| Bromomethane | | mg/kg | 0.0058 R | | mg/kg | 0.0054 R | | mg/kg | 0.0053 R |
| Carbon tetrachloride | | mg/kg | 0.012 U | | mg/kg | 0.011 U | | mg/kg | 0.011 U |
| Chlorobenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Chloroethane | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| Chloroform | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Chloromethane | | mg/kg | 0.0081 R | | mg/kg | 0.0075 R | | mg/kg | 0.0074 R |
| Dibromochloromethane | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| Dibromomethane | | mg/kg | 0.012 U | | mg/kg | 0.011 U | | mg/kg | 0.011 U |
| Dichlorodifluoromethane | | mg/kg | 0.0058 R | | mg/kg | 0.0054 R | | mg/kg | 0.0053 R |
| Ethylbenzene | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| Hexachlorobutadiene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| Isopropylbenzene | | mg/kg | 0.0093 U | | mg/kg | 0.0086 U | | mg/kg | 0.0084 U |
| Methylene chloride | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Naphthalene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Styrene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| Tetrachloroethene | 0.00193 | mg/kg | 0.0081 F | 0.00374 | mg/kg | 0.0075 F | 0.00289 | mg/kg | 0.0074 F |
| Toluene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| Trichloroethene | | mg/kg | 0.012 U | | mg/kg | 0.011 U | | mg/kg | 0.011 U |
| Trichlorofluoromethane | | mg/kg | 0.0047 U | | mg/kg | 0.0043 U | | mg/kg | 0.0042 U |
| Vinyl chloride | | mg/kg | 0.01 U | | mg/kg | 0.0097 U | | mg/kg | 0.0095 U |
| cis-1,2-Dichloroethene | | mg/kg | 0.007 U | | mg/kg | 0.0065 U | | mg/kg | 0.0063 U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| m,p-Xylene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| n-Butylbenzene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| n-Propylbenzene | | mg/kg | 0.0023 U | | mg/kg | 0.0022 U | | mg/kg | 0.0021 U |
| o-Xylene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| p-Isopropyltoluene | | mg/kg | 0.007 U | | mg/kg | 0.0065 U | | mg/kg | 0.0063 U |
| sec-Butylbenzene | | mg/kg | 0.0081 U | | mg/kg | 0.0075 U | | mg/kg | 0.0074 U |
| tert-Butylbenzene | | mg/kg | 0.0081 U | | mg/kg | 0.0075 U | | mg/kg | 0.0074 U |
| trans-Dichloroethene | | mg/kg | 0.0035 U | | mg/kg | 0.0032 U | | mg/kg | 0.0032 U |
| trans-Dichloropropene | | mg/kg | 0.0058 U | | mg/kg | 0.0054 U | | mg/kg | 0.0053 U |
| Acetone | | mg/kg | 0.01 U | | mg/kg | 0.01 U | | mg/kg | 0.01 U |
| 2-Butanone | | mg/kg | 0.01 U | | mg/kg | 0.01 U | | mg/kg | 0.01 U |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| Collection Date | PAFB-P04 | | | PAFB-P05A (FD2) ¹ | | | PAFB-P05B (FD2) ¹ | | | | | |
|-----------------------------|-----------|----------|--------|------------------------------|----------|--------|------------------------------|----------|---------|-------|--------|---|
| Analysis Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| % Solids | 13-Dec-00 | | | 13-Dec-00 | | | 13-Dec-00 | | | | | |
| | 95 | weight % | RL | 94 | weight % | RL | 94 | weight % | RL | | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U | mg/kg | 0.0043 | U | mg/kg | 0.0043 | U | | |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0064 | U | | |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | | |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2,4-Trimethylbenzene | | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | | |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.011 | U | | |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0064 | U | | |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1-Chlorohexane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | | |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| Benzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromochloromethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromochloromethane | | mg/kg | 0.0042 | U | mg/kg | 0.0043 | U | mg/kg | 0.0043 | U | | |
| Bromochloromethane | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0064 | U | | |
| Bromomethane | | mg/kg | 0.0053 | R | mg/kg | 0.0053 | R | mg/kg | 0.0053 | R | | |
| Carbon tetrachloride | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.011 | U | | |
| Chlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Chloroethane | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| Chloroform | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Chloromethane | | mg/kg | 0.0074 | R | mg/kg | 0.0074 | R | mg/kg | 0.0074 | R | | |
| Dibromochloromethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| Dibromomethane | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.011 | U | | |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R | mg/kg | 0.0053 | R | mg/kg | 0.0053 | R | | |
| Ethylbenzene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| Isopropylbenzene | | mg/kg | 0.0084 | U | mg/kg | 0.0085 | U | mg/kg | 0.0085 | U | | |
| Methylene chloride | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Naphthalene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Styrene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Tetrachloroethene | | mg/kg | 0.0074 | U | 0.00272 | mg/kg | 0.0074 | F | 0.00154 | mg/kg | 0.0074 | F |
| Toluene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| Trichloroethene | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.011 | U | | |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U | mg/kg | 0.0043 | U | mg/kg | 0.0043 | U | | |
| Vinyl chloride | | mg/kg | 0.0095 | U | mg/kg | 0.0096 | U | mg/kg | 0.0096 | U | | |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0064 | U | | |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| m,p-Xylene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| n-Butylbenzene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| n-Propylbenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| o-Xylene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0064 | U | | |
| sec-Butylbenzene | | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | | |
| tert-Butylbenzene | | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | | |
| trans-1,2-Dichloroethene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | | |
| trans-1,3-Dichloropropene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | | |
| Acetone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | 0.0074 | mg/kg | 0.01 | F | |
| 2-Butanone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-P06 | | | PAFB-P07 | | | PAFB-P08 | | | | |
|-----------------------------|----------|----------|--------|----------|----------|--------|----------|----------|--------|--------|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | |
| Analyte | 12/13/00 | | | 12/13/00 | | | 12/13/00 | | | | |
| % Solids | 91 | weight % | RL | 96 | weight % | RL | 96 | weight % | RL | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,1,1-Trichloroethane | | mg/kg | 0.0044 | U | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,1,2-Trichloroethane | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| 1,1-Dichloroethane | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,1-Dichloroethene | | mg/kg | 0.0066 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| 1,1-Dichloropropene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,2,3-Trichloropropane | | mg/kg | 0.022 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,2,4-Trimethylbenzene | | mg/kg | 0.0077 | U | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| 1,2-Dibromoethane | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,2-Dichlorobenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,2-Dichloroethane | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,2-Dichloropropane | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 1,3-Dichlorobenzene | | mg/kg | 0.0066 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| 1,3-Dichloropropane | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1,4-Dichlorobenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 1-Chlorohexane | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| 2,2-Dichloropropane | | mg/kg | 0.022 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | |
| 2-Chlorotoluene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| 4-Chlorotoluene | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| Benzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Bromobenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Bromochloromethane | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Bromochloromethane | | mg/kg | 0.0044 | U | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | |
| Bromochloroethane | | mg/kg | 0.0066 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| Bromomethane | | mg/kg | 0.0055 | R | mg/kg | 0.0052 | R | mg/kg | 0.0052 | R | |
| Carbon tetrachloride | | mg/kg | 0.011 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| Chlorobenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Chloroethane | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Chloroform | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Chloromethane | | mg/kg | 0.0077 | R | mg/kg | 0.0073 | R | mg/kg | 0.0073 | R | |
| Dibromochloromethane | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| Dibromomethane | | mg/kg | 0.011 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| Dichlorodifluoromethane | | mg/kg | 0.0055 | R | mg/kg | 0.0052 | R | mg/kg | 0.0052 | R | |
| Ethylbenzene | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| Hexachlorobutadiene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Isopropylbenzene | | mg/kg | 0.0088 | U | mg/kg | 0.0083 | U | mg/kg | 0.0083 | U | |
| Methylene chloride | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Naphthalene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Styrene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| Tetrachloroethene | 0.00125 | mg/kg | 0.0077 | F | 0.00143 | mg/kg | 0.0073 | F | mg/kg | 0.0073 | U |
| Toluene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Trichloroethene | | mg/kg | 0.011 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| Trichlorofluoromethane | | mg/kg | 0.0044 | U | mg/kg | 0.0042 | U | mg/kg | 0.0042 | U | |
| Vinyl chloride | | mg/kg | 0.0099 | U | mg/kg | 0.0094 | U | mg/kg | 0.0094 | U | |
| cis-1,2-Dichloroethene | | mg/kg | 0.0066 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| cis-1,3-Dichloropropene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| m-,p-Xylene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| n-Butylbenzene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| n-Propylbenzene | | mg/kg | 0.0022 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | |
| o-Xylene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| p-Isopropyltoluene | | mg/kg | 0.0066 | U | mg/kg | 0.0063 | U | mg/kg | 0.0063 | U | |
| sec-Butylbenzene | | mg/kg | 0.0077 | U | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| tert-Butylbenzene | | mg/kg | 0.0077 | U | mg/kg | 0.0073 | U | mg/kg | 0.0073 | U | |
| trans-1,2-Dichloroethene | | mg/kg | 0.0033 | U | mg/kg | 0.0031 | U | mg/kg | 0.0031 | U | |
| trans-1,2-Dichloropropene | | mg/kg | 0.0055 | U | mg/kg | 0.0052 | U | mg/kg | 0.0052 | U | |
| Acetone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |
| 2-Butanone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-S01 | | | | PAFB-S02 | | | | PAFB-S03 | | | |
|-----------------------------|-----------|----------|--------|---|-----------|----------|--------|---|-----------|----------|--------|---|
| Collection Date | 7-Dec-00 | | | | 7-Dec-00 | | | | 7-Dec-00 | | | |
| Analysis Date | 13-Dec-00 | | | | 13-Dec-00 | | | | 14-Dec-00 | | | |
| % Solids | 95 | weight % | RL | | 96 | weight % | RL | | 92 | weight % | RL | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0042 | U | | mg/kg | 0.0043 | U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | M |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | M |
| 1,2,4-Trimethylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0073 | U | 0.000293 | mg/kg | 0.0076 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | M |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | M |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | M |
| 1-Chlorohexane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | M |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| Benzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromochloromethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromodichloromethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0042 | U | | mg/kg | 0.0043 | U |
| Bromotrifluoromethane | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| Bromomethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0052 | R | | mg/kg | 0.0054 | R |
| Carbon tetrachloride | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U |
| Chlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Chloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| Chloroform | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Chloromethane | | mg/kg | 0.0074 | R | | mg/kg | 0.0073 | R | | mg/kg | 0.0076 | U |
| Dibromochloromethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| Dibromomethane | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0052 | R | | mg/kg | 0.0054 | R |
| Ethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | M |
| Isopropylbenzene | | mg/kg | 0.0084 | U | | mg/kg | 0.0083 | U | | mg/kg | 0.0087 | U |
| Methylene chloride | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Napthalene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | M |
| Styrene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Tetrachloroethene | 0.000874 | mg/kg | 0.0074 | F | | mg/kg | 0.0073 | U | 0.00063 | mg/kg | 0.0076 | F |
| Toluene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| Trichloroethene | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U | | mg/kg | 0.011 | U |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0042 | U | | mg/kg | 0.0043 | U |
| Vinyl chloride | | mg/kg | 0.0095 | U | | mg/kg | 0.0094 | U | | mg/kg | 0.0098 | U |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| m-p-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| n-Butylbenzene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | M |
| n-Propylbenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | M |
| o-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | M |
| sec-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0073 | U | | mg/kg | 0.0076 | M |
| tert-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0073 | U | | mg/kg | 0.0076 | M |
| trans-1,2-Dichloroethene | | mg/kg | 0.0032 | U | | mg/kg | 0.0031 | U | | mg/kg | 0.0033 | U |
| trans-1,3-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0052 | U | | mg/kg | 0.0054 | U |
| Acetone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| 2-Butanone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-S04 | | | PAFB-S05 | | | PAFB-S06 | | | | | |
|-----------------------------|-----------|----------|--------|-----------|----------|--------|-----------|----------|----------|-------|--------|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| Analysis Date | 14-Dec-00 | | | 14-Dec-00 | | | 14-Dec-00 | | | | | |
| % Solvent | 95 | weight % | RL | 94 | weight % | RL | 96 | weight % | RL | | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U | mg/kg | 0.0043 | U | mg/kg | 0.0042 | U | | |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0063 | U | | |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | | |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2,4-Trimethylbenzene | 0.000379 | mg/kg | 0.0074 | F | 0.000362 | mg/kg | 0.0074 | F | 0.000302 | mg/kg | 0.0073 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0063 | U | | |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 1-Chlorohexane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | mg/kg | 0.021 | U | mg/kg | 0.021 | U | | |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| Benzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromochloromethane | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Bromodichloromethane | | mg/kg | 0.0042 | U | mg/kg | 0.0043 | U | mg/kg | 0.0042 | U | | |
| Bromoethane | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0063 | U | | |
| Bromomethane | | mg/kg | 0.0053 | R | mg/kg | 0.0053 | R | mg/kg | 0.0052 | R | | |
| Carbon tetrachloride | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| Chlorobenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Chloroethane | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Chloroform | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Chloromethane | | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| Dibromochloromethane | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| Dibromomethane | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R | mg/kg | 0.0053 | R | mg/kg | 0.0052 | R | | |
| Ethylbenzene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Isopropylbenzene | | mg/kg | 0.0084 | U | mg/kg | 0.0085 | U | mg/kg | 0.0083 | U | | |
| Methylene chloride | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Naphthalene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Styrene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| Tetrachloroethene | 0.000474 | mg/kg | 0.0074 | F | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| Toluene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Trichloroethene | | mg/kg | 0.011 | U | mg/kg | 0.011 | U | mg/kg | 0.01 | U | | |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U | mg/kg | 0.0043 | U | mg/kg | 0.0042 | U | | |
| Vinyl chloride | | mg/kg | 0.0095 | U | mg/kg | 0.0096 | U | mg/kg | 0.0094 | U | | |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0063 | U | | |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| m,p-Xylene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| n-Butylbenzene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| n-Propylbenzene | | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | mg/kg | 0.0021 | U | | |
| o-Xylene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U | mg/kg | 0.0064 | U | mg/kg | 0.0063 | U | | |
| sec-Butylbenzene | | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| tert-Butylbenzene | | mg/kg | 0.0074 | U | mg/kg | 0.0074 | U | mg/kg | 0.0073 | U | | |
| trans-1,2-Dichloroethene | | mg/kg | 0.0032 | U | mg/kg | 0.0032 | U | mg/kg | 0.0031 | U | | |
| trans-1,2-Dichloropropene | | mg/kg | 0.0053 | U | mg/kg | 0.0053 | U | mg/kg | 0.0052 | U | | |
| Acetone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |
| 2-Butanone | | mg/kg | 0.01 | U | mg/kg | 0.01 | U | mg/kg | 0.01 | U | | |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| Collection Date An Date | PAFB-S07A (FD3) ¹ | | | | PAFB-S07B (FD3) ¹ | | | | PAFB-S08 | | | |
|-----------------------------|------------------------------|----------|--------|---|------------------------------|----------|--------|---|-----------|----------|--------|---|
| | 7-Dec-00 | | | | 7-Dec-00 | | | | 7-Dec-00 | | | |
| | 14-Dec-00 | | | | 14-Dec-00 | | | | 14-Dec-00 | | | |
| % S | 94 | weight % | RL | | 90 | weight % | RL | | 96 | weight % | RL | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0043 | U | | mg/kg | 0.0044 | U | | mg/kg | 0.0042 | U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,1-Dichloroethene | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U | | mg/kg | 0.0063 | U |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U | | mg/kg | 0.021 | U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,2,4-Trimethylbenzene | 0.000309 | mg/kg | 0.0074 | F | 0.0003 | mg/kg | 0.0078 | F | 0.000323 | mg/kg | 0.0073 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| 1,3-Dichlorobenzene | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U | | mg/kg | 0.0063 | U |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 1-Chlorohexane | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U | | mg/kg | 0.021 | U |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| Benzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Bromobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Bromochloromethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Bromodichloromethane | | mg/kg | 0.0043 | U | | mg/kg | 0.0044 | U | | mg/kg | 0.0042 | U |
| Bromotrifluoromethane | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U | | mg/kg | 0.0063 | U |
| Bromomethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0056 | R | | mg/kg | 0.0052 | R |
| Carbon tetrachloride | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U |
| Chlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Chloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| Chloroform | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Chloromethane | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U | | mg/kg | 0.0073 | U |
| Dibromochloromethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| Dibromomethane | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0056 | R | | mg/kg | 0.0052 | R |
| Ethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| Isopropylbenzene | | mg/kg | 0.0085 | U | | mg/kg | 0.0089 | U | | mg/kg | 0.0083 | U |
| Methylene chloride | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Naphthalene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Styrene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| Tetrachloroethene | 0.0012 | mg/kg | 0.0074 | F | 0.000711 | mg/kg | 0.0078 | F | | mg/kg | 0.0073 | U |
| Toluene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| Trichloroethene | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.01 | U |
| Trichlorofluoromethane | | mg/kg | 0.0043 | U | | mg/kg | 0.0044 | U | | mg/kg | 0.0042 | U |
| Vinyl chloride | | mg/kg | 0.0096 | U | | mg/kg | 0.01 | U | | mg/kg | 0.0094 | U |
| cis-1,2-Dichloroethene | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U | | mg/kg | 0.0063 | U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| m,p-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| n-Butylbenzene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| n-Propylbenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U | | mg/kg | 0.0021 | U |
| o-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| p-Isopropyltoluene | | mg/kg | 0.0064 | U | | mg/kg | 0.0067 | U | | mg/kg | 0.0063 | U |
| sec-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U | | mg/kg | 0.0073 | U |
| tert-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0078 | U | | mg/kg | 0.0073 | U |
| trans-1,2-Dichloroethene | | mg/kg | 0.0032 | U | | mg/kg | 0.0033 | U | | mg/kg | 0.0031 | U |
| trans-1,2-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0056 | U | | mg/kg | 0.0052 | U |
| Acetone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| 2-Butanone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | PAFB-S09 | | | PAFB-S10 | | | PAFB-S11 | | | | | |
|-----------------------------|-----------|----------|--------|-----------|----------|-------|-----------|----------|----------|-------|--------|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| Anr Date | 14-Dec-00 | | | 15-Dec-00 | | | 15-Dec-00 | | | | | |
| % S | 95 | weight % | RL | 95 | weight % | RL | 93 | weight % | RL | | | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0042 | U | | mg/kg | 0.0043 | U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,2,4-Trimethylbenzene | 0.000305 | mg/kg | 0.0074 | U | 0.000274 | mg/kg | 0.0074 | F | 0.000258 | mg/kg | 0.0075 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 1-Chlorohexane | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U | | mg/kg | 0.021 | U | | mg/kg | 0.022 | U |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| Benzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromochloromethane | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Bromodichloromethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0042 | U | | mg/kg | 0.0043 | U |
| Bron | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| Brom | | mg/kg | 0.0053 | R | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| Carbon tetrachloride | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| Chlorobenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Chloroethane | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| Chloroform | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Chloromethane | | mg/kg | 0.0074 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0075 | U |
| Dibromochloromethane | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| Dibromomethane | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R | | mg/kg | 0.0053 | R | | mg/kg | 0.0054 | R |
| Ethylbenzene | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| Isopropylbenzene | | mg/kg | 0.0084 | U | | mg/kg | 0.0084 | U | | mg/kg | 0.0086 | U |
| Methylene chloride | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Naphthalene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Styrene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| Tetrachloroethene | | mg/kg | 0.0074 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0075 | U |
| Toluene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| Trichloroethene | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U | | mg/kg | 0.011 | U |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U | | mg/kg | 0.0042 | U | | mg/kg | 0.0043 | U |
| Vinyl chloride | | mg/kg | 0.0095 | U | | mg/kg | 0.0095 | U | | mg/kg | 0.0097 | U |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| m-,p-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| n-Butylbenzene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| n-Propylbenzene | | mg/kg | 0.0021 | U | | mg/kg | 0.0021 | U | | mg/kg | 0.0022 | U |
| o-Xylene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U | | mg/kg | 0.0063 | U | | mg/kg | 0.0065 | U |
| sec-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0075 | U |
| tert-Butylbenzene | | mg/kg | 0.0074 | U | | mg/kg | 0.0074 | U | | mg/kg | 0.0075 | U |
| trans-1,2-Dichloroethene | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U | | mg/kg | 0.0032 | U |
| trans-1,2-Dichloropropene | | mg/kg | 0.0053 | U | | mg/kg | 0.0053 | U | | mg/kg | 0.0054 | U |
| Acetone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |
| 2-Butanone | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U | | mg/kg | 0.01 | U |

Table 1 (VOC)
Analytical Results for Volatiles by
Method SW846 8260B

8/10/01

| | | PAFB-S12 | | |
|-----------------------------|-----------|----------|--------|---|
| Collection Date | 7-Dec-00 | | | |
| Ar Date | 15-Dec-00 | | | |
| % | 95 | weight % | RL | |
| 1,1,1,2-Tetrachloroethane | | mg/kg | 0.0032 | U |
| 1,1,1-Trichloroethane | | mg/kg | 0.0042 | U |
| 1,1,2,2-Tetrachloroethane | | mg/kg | 0.0021 | U |
| 1,1,2-Trichloroethane | | mg/kg | 0.0053 | U |
| 1,1-Dichloroethane | | mg/kg | 0.0021 | U |
| 1,1-Dichloroethene | | mg/kg | 0.0063 | U |
| 1,1-Dichloropropene | | mg/kg | 0.0053 | U |
| 1,2,3-Trichlorobenzene | | mg/kg | 0.0021 | U |
| 1,2,3-Trichloropropane | | mg/kg | 0.021 | U |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.0021 | U |
| 1,2,4-Trimethylbenzene | 0.000274 | mg/kg | 0.0074 | F |
| 1,2-Dibromo-3-chloropropane | | mg/kg | 0.011 | U |
| 1,2-Dibromoethane | | mg/kg | 0.0032 | U |
| 1,2-Dichlorobenzene | | mg/kg | 0.0021 | U |
| 1,2-Dichloroethane | | mg/kg | 0.0032 | U |
| 1,2-Dichloropropane | | mg/kg | 0.0021 | U |
| 1,3,5-Trimethylbenzene | | mg/kg | 0.0032 | U |
| 1,3-Dichlorobenzene | | mg/kg | 0.0063 | U |
| 1,3-Dichloropropane | | mg/kg | 0.0021 | U |
| 1,4-Dichlorobenzene | | mg/kg | 0.0021 | U |
| 1-Chlorohexane | | mg/kg | 0.0032 | U |
| 2,2-Dichloropropane | | mg/kg | 0.021 | U |
| 2-Chlorotoluene | | mg/kg | 0.0021 | U |
| 4-Chlorotoluene | | mg/kg | 0.0032 | U |
| Benzene | | mg/kg | 0.0021 | U |
| Bromobenzene | | mg/kg | 0.0021 | U |
| Bromochloromethane | | mg/kg | 0.0021 | U |
| Bromodichloromethane | | mg/kg | 0.0042 | U |
| Bromomethane | | mg/kg | 0.0063 | U |
| Bromotoluene | | mg/kg | 0.0053 | U |
| Carbon tetrachloride | | mg/kg | 0.011 | U |
| Chlorobenzene | | mg/kg | 0.0021 | U |
| Chloroethane | | mg/kg | 0.0053 | U |
| Chloroform | | mg/kg | 0.0021 | U |
| Chloromethane | | mg/kg | 0.0074 | U |
| Dibromochloromethane | | mg/kg | 0.0032 | U |
| Dibromomethane | | mg/kg | 0.011 | U |
| Dichlorodifluoromethane | | mg/kg | 0.0053 | R |
| Ethylbenzene | | mg/kg | 0.0032 | U |
| Hexachlorobutadiene | | mg/kg | 0.0053 | U |
| Isopropylbenzene | | mg/kg | 0.0084 | U |
| Methylene chloride | | mg/kg | 0.0021 | U |
| Naphthalene | | mg/kg | 0.0021 | U |
| Styrene | | mg/kg | 0.0021 | U |
| Tetrachloroethene | | mg/kg | 0.0074 | U |
| Toluene | | mg/kg | 0.0053 | U |
| Trichloroethene | | mg/kg | 0.011 | U |
| Trichlorofluoromethane | | mg/kg | 0.0042 | U |
| Vinyl chloride | | mg/kg | 0.0095 | U |
| cis-1,2-Dichloroethene | | mg/kg | 0.0063 | U |
| cis-1,3-Dichloropropene | | mg/kg | 0.0053 | U |
| m,p-Xylene | | mg/kg | 0.0053 | U |
| n-Butylbenzene | | mg/kg | 0.0053 | U |
| n-Propylbenzene | | mg/kg | 0.0021 | U |
| o-Xylene | | mg/kg | 0.0053 | U |
| p-Isopropyltoluene | | mg/kg | 0.0063 | U |
| sec-Butylbenzene | | mg/kg | 0.0074 | U |
| tert-Butylbenzene | | mg/kg | 0.0074 | U |
| trans-1,2-Dichloroethene | | mg/kg | 0.0032 | U |
| trans-1,3-Dichloropropene | | mg/kg | 0.0053 | U |
| Acetone | | mg/kg | 0.01 | U |
| 2-Butanone | | mg/kg | 0.01 | U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| Collection Date | PAFB-B01 | | | PAFB-B02 | | | PAFB-B03 | | | |
|-----------------------------|------------------|----------|----|------------------|----------|-----|------------------|----------|-----|---|
| | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | |
| Analysis Date (Instrument) | 12/17/2000 (MS5) | | | 12/18/2000 (MS5) | | | 12/18/2000 (MS5) | | | |
| Percent Solids | 98 | weight % | RL | 94 | weight % | RL | 90 | weight % | RL | |
| 1,2,4-Trichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 1,2-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 1,3-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 2,4,5-Trichlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | |
| 2,4,6-Trichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | |
| 2,4-Dichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | |
| 2,4-Dimethylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | |
| 2,4-Dinitrophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | |
| 2,4-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 2,6-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 2-Chloronaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 2-Chlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | |
| 2-Methylnaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 2-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | |
| 2-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | |
| 2-Nitrophenol | mg/kg | 0.3 | R | mg/kg | 0.3 | R | mg/kg | 0.3 | R | |
| 3,3'-Dichlorobenzidine | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | |
| 3-Nitroaniline | mg/kg | 3.3 | R | mg/kg | 3.3 | R | mg/kg | 3.3 | R | |
| 4,6-Dinitro-2-methylphenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | |
| 4-Bromophenyl-phenylether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 4-Chloro-3-methylphenol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | |
| 4-Chloroaniline | mg/kg | 1.3 | R | mg/kg | 1.3 | R | mg/kg | 1.3 | R | |
| 4-Chlorophenyl-phenyl ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| 4-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | |
| 4-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | |
| Acenaphthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| Acenaphthylene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| Anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | |
| Benzo(a)anthracene | mg/kg | 0.7 | U | 0.113 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Benzo(a)pyrene | mg/kg | 0.7 | U | 0.112 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Benzo(b)fluoranthene | mg/kg | 0.7 | U | 0.129 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Benzo(g,h,i)Perylene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Benzo(k)fluoranthene | mg/kg | 0.7 | U | 0.107 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Benzoic acid | mg/kg | 1.6 | R | | mg/kg | 1.6 | R | mg/kg | 1.6 | R |
| Benzyl alcohol | mg/kg | 1.3 | U | | mg/kg | 1.3 | U | mg/kg | 1.3 | U |
| Bis(2-Chloroethoxy)Methane | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Bis(2-Chloroethyl)ether | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Butylbenzylphthalate | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Chrysene | mg/kg | 0.7 | U | 0.114 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Di-N-Butylphthalate | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Di-n-octylphthalate | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Dibenzo(a,h)Anthracene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Dibenzofuran | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Diethylphthalate | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Dimethylphthalate | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Fluoranthene | mg/kg | 0.7 | U | 0.195 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Fluorene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachlorobenzene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachlorobutadiene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachlorocyclopentadiene | mg/kg | 0.7 | R | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachloroethane | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Isophorone | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| N-Nitroso-di-n-propylamine | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| N-Nitrosodiphenylamine | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Naphthalene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Nitrobenzene | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Pentachlorophenol | mg/kg | 3.3 | U | | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| Phenanthrene | mg/kg | 0.7 | U | 0.101 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| Phenol | mg/kg | 0.3 | U | | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| rene | mg/kg | 0.7 | U | 0.164 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| s(2-Chloroisopropyl)ether | mg/kg | 0.7 | U | | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| bis(2-Ethylhexyl)phthalate | mg/kg | 0.7 | U | 0.0621 | mg/kg | 0.7 | F | mg/kg | 0.7 | U |
| p-Nitrophenol | mg/kg | 1.6 | U | | mg/kg | 1.6 | U | mg/kg | 1.6 | U |

Table I(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-B04 | | | PAFB-B05 | | | PAFB-B06 | | |
|-----------------------------|------------------|----------|-------|----------------|----------|-------|----------------|----------|-------|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/22/2000 (MS5) | | | 12/17/00 (MS5) | | | 12/17/00 (MS5) | | |
| Percent Solids | 95 | weight % | RL | 97 | weight % | RL | 96 | weight % | RL |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,2-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,3-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,4-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,4,5-Trichlorophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4,6-Trichlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dichlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dimethylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dinitrophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,6-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chloronaphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Methylnaphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2-Nitrophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 R | | mg/kg | 0.3 R |
| 3,3'-Dichlorobenzidine | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| 3-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 R | | mg/kg | 3.3 R |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 4-Bromophenyl-phenylether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Chloro-3-methylphenol | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| 4-Chloroaniline | | mg/kg | 1.3 U | | mg/kg | 1.3 R | | mg/kg | 1.3 R |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 4-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Acenaphthene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Acenaphthylene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Anthracene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzo(a)anthracene | 0.0376 | mg/kg | 0.7 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzo(a)pyrene | 0.0411 | mg/kg | 0.7 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzo(b)fluoranthene | 0.0478 | mg/kg | 0.7 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzo(g,h,i)Perylene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzo(k)fluoranthene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzoic acid | | mg/kg | 1.6 R | | mg/kg | 1.6 R | | mg/kg | 1.6 R |
| Benzyl alcohol | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Bis(2-Chloroethyl)ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Butylbenzylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Chrysene | 0.0389 | mg/kg | 0.7 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Di-N-Butylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Di-n-octylphthalate | | mg/kg | 0.7 R | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dibenzo(a,h)Anthracene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dibenzofuran | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Diethylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dimethylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Fluoranthene | 0.0574 | mg/kg | 0.7 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Fluorene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobutadiene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorocyclopentadiene | | mg/kg | 0.7 U | | mg/kg | 0.7 R | | mg/kg | 0.7 R |
| Hexachloroethane | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Indeno(1,2,3-cd)pyrene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Isophorone | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitroso-di-n-propylamine | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitrosodiphenylamine | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Naphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Nitrobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Pentachlorophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Phenanthrene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Phenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| Phenylene | 0.0465 | mg/kg | 0.7 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Bis(2-Chloroisopropyl)ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| bis(2-Ethylhexyl)phthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| p-Nitrophenol | | mg/kg | 1.6 U | | mg/kg | 1.6 U | | mg/kg | 1.6 U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-B07 | | | PAFB-B08 | | |
|-----------------------------|----------------|----------|----|----------------|----------|----|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/18/00 (MS5) | | | 12/17/00 (MS5) | | |
| Percent Solids | 97 | weight % | RL | 96 | weight % | RL |
| 1,2,4-Trichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 1,2-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 1,3-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 2,4,5-Trichlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| 2,4,6-Trichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| 2,4-Dichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| 2,4-Dimethylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| 2,4-Dinitrophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| 2,4-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 2,6-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 2-Chloronaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 2-Chlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| 2-Methylnaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 2-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| 2-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| 2-Nitrophenol | mg/kg | 0.3 | R | mg/kg | 0.3 | R |
| 3,3'-Dichlorobenzidine | mg/kg | 1.3 | U | mg/kg | 1.3 | U |
| 3-Nitroaniline | mg/kg | 3.3 | R | mg/kg | 3.3 | R |
| 4,6-Dinitro-2-methylphenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| 4-Bromophenyl-phenylether | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 4-Chloro-3-methylphenol | mg/kg | 1.3 | U | mg/kg | 1.3 | U |
| 4-Chloroaniline | mg/kg | 1.3 | R | mg/kg | 1.3 | R |
| 4-Chlorophenyl-phenyl ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| 4-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| 4-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| Acenaphthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Acenaphthylene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| enzo(a)anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Benzo(a)pyrene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Benzo(b)fluoranthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Benzo(g,h,i)Perylene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Benzo(k)fluoranthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Benzoic acid | mg/kg | 1.6 | R | mg/kg | 1.6 | R |
| Benzyl alcohol | mg/kg | 1.3 | U | mg/kg | 1.3 | U |
| Bis(2-Chloroethoxy)Methane | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Bis(2-Chloroethyl)ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Butylbenzylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Chrysene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Di-N-Butylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Di-n-octylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Dibenzo(a,h)Anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Dibenzofuran | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Diethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Dimethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Fluoranthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Fluorene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachlorobutadiene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Hexachlorocyclopentadiene | mg/kg | 0.7 | U | mg/kg | 0.7 | R |
| Hexachloroethane | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Isophorone | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| N-Nitroso-di-n-propylamine | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| N-Nitrosodiphenylamine | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Naphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Nitrobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Pentachlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U |
| Phenanthrene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| Phenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U |
| rene | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| bis(2-Chloroisopropyl)ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| bis(2-Ethylhexyl)phthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U |
| p-Nitrophenol | mg/kg | 1.6 | U | mg/kg | 1.6 | U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-B09A (FD1) ¹ | | | PAFB-B09B (FD1) ¹ | | | PAFB-B10 | | |
|-----------------------------|------------------------------|----------|-------|------------------------------|----------|-------|----------------|----------|-------|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/18/00 (MS5) | | | 12/18/00 (MS5) | | | 12/18/00 (MS5) | | |
| Percent Solids | 96 | weight % | RL | 96 | weight % | RL | 97 | weight % | RL |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,2-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,3-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,4-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,4,5-Trichlorophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4,6-Trichlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dichlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dimethylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dinitrophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,6-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chloronaphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Methylnaphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2-Nitrophenol | | mg/kg | 0.3 R | | mg/kg | 0.3 R | | mg/kg | 0.3 R |
| 3,3'-Dichlorobenzidine | | mg/kg | 1.3 U | 0.0553 | mg/kg | 1.3 F | | mg/kg | 1.3 U |
| 3-Nitroaniline | | mg/kg | 3.3 R | | mg/kg | 3.3 R | | mg/kg | 3.3 R |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 4-Bromophenyl-phenylether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Chloro-3-methylphenol | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| 4-Chloroaniline | | mg/kg | 1.3 R | | mg/kg | 1.3 R | | mg/kg | 1.3 R |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 4-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Acenaphthene | | mg/kg | 0.7 U | 0.0571 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Acenaphthylene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Anthracene | | mg/kg | 0.7 U | 0.341 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| benzo(a)anthracene | 0.0569 | mg/kg | 0.7 F | 0.803 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Benzo(a)pyrene | 0.0504 | mg/kg | 0.7 F | 0.546 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Benzo(b)fluoranthene | 0.0584 | mg/kg | 0.7 F | 0.549 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Benzo(g,h,i)Perylene | 0.0333 | mg/kg | 0.7 F | 0.309 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Benzo(k)fluoranthene | 0.035 | mg/kg | 0.7 F | 0.414 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Benzoic acid | | mg/kg | 1.6 R | | mg/kg | 1.6 R | | mg/kg | 1.6 R |
| Benzyl alcohol | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Bis(2-Chloroethyl)ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Butylbenzylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Chrysene | 0.0587 | mg/kg | 0.7 F | 0.802 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Di-N-Butylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Di-n-octylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dibenzo(a,h)Anthracene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dibenzofuran | | mg/kg | 0.7 U | 0.0723 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Diethylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dimethylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Fluoranthene | 0.0727 | mg/kg | 0.7 F | 1.98 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Fluorene | | mg/kg | 0.7 U | 0.224 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Hexachlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobutadiene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorocyclopentadiene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachloroethane | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Indeno(1,2,3-cd)pyrene | | mg/kg | 0.7 U | 0.267 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Isophorone | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitroso-di-n-propylamine | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitrosodiphenylamine | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Naphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Nitrobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Pentachlorophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Phenanthrene | | mg/kg | 0.7 U | 2.35 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| phenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| ene | 0.0943 | mg/kg | 0.7 F | 1.75 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| is(2-Chloroisopropyl)ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| bis(2-Ethylhexyl)phthalate | 0.0428 | mg/kg | 0.7 F | | mg/kg | 0.7 U | 0.043 | mg/kg | 0.7 F |
| p-Nitrophenol | | mg/kg | 1.6 U | | mg/kg | 1.6 U | | mg/kg | 1.6 U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

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| | PAFB-B11 | | | PAFB-B12 | | | PAFB-B13 | | | | |
|-----------------------------|----------------|----------|----|----------------|----------|-----|----------------|----------|-------|-----|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | |
| Analysis Date (Instrument) | 12/17/00 (MS5) | | | 12/18/00 (MS5) | | | 12/22/00 (MS5) | | | | |
| Percent Solids | 98 | weight % | RL | 96 | weight % | RL | 96 | weight % | RL | | |
| 1,2,4-Trichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 1,2-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 1,3-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 2,4,5-Trichlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | |
| 2,4,6-Trichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| 2,4-Dichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| 2,4-Dimethylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| 2,4-Dinitrophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | |
| 2,4-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 2,6-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 2-Chloronaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 2-Chlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| 2-Methylnaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 2-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| 2-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | |
| 2-Nitrophenol | mg/kg | 0.3 | R | mg/kg | 0.3 | R | mg/kg | 0.3 | U | | |
| 3,3'-Dichlorobenzidine | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | |
| 3-Nitroaniline | mg/kg | 3.3 | R | mg/kg | 3.3 | R | mg/kg | 3.3 | U | | |
| 4,6-Dinitro-2-methylphenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | |
| 4-Bromophenyl-phenylether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 4-Chloro-3-methylphenol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | |
| 4-Chloroaniline | mg/kg | 1.3 | R | mg/kg | 1.3 | R | mg/kg | 1.3 | U | | |
| 4-Chlorophenyl-phenyl ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| 4-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| 4-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | |
| Acenaphthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Acenaphthylene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| enzo(a)anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | 0.0417 | mg/kg | 0.7 | F | |
| Benzo(a)pyrene | mg/kg | 0.7 | U | 0.0302 | mg/kg | 0.7 | F | 0.0496 | mg/kg | 0.7 | F |
| Benzo(b)fluoranthene | mg/kg | 0.7 | U | 0.0353 | mg/kg | 0.7 | F | 0.062 | mg/kg | 0.7 | F |
| Benzo(g,h,i)Perylene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Benzo(k)fluoranthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Benzoic acid | mg/kg | 1.6 | R | mg/kg | 1.6 | R | mg/kg | 1.6 | R | | |
| Benzyl alcohol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | |
| Bis(2-Chloroethoxy)Methane | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Bis(2-Chloroethyl)ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Butylbenzylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Chrysene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | 0.0456 | mg/kg | 0.7 | F | |
| Di-N-Butylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Di-n-octylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | |
| Dibenzo(a,h)Anthracene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Dibenzofuran | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Diethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Dimethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Fluoranthene | mg/kg | 0.7 | U | 0.0412 | mg/kg | 0.7 | F | 0.0709 | mg/kg | 0.7 | F |
| Fluorene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Hexachlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Hexachlorobutadiene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Hexachlorocyclopentadiene | mg/kg | 0.7 | R | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Hexachloroethane | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Isophorone | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| N-Nitroso-di-n-propylamine | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| N-Nitrosodiphenylamine | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Naphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Nitrobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Pentachlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | |
| Phenanthrene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Phenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | |
| ene | mg/kg | 0.7 | U | 0.0393 | mg/kg | 0.7 | F | 0.0639 | mg/kg | 0.7 | F |
| bis(2-Chloroisopropyl)ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| bis(2-Ethylhexyl)phthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | 0.041 | mg/kg | 0.7 | F | |
| p-Nitrophenol | mg/kg | 1.6 | U | mg/kg | 1.6 | U | mg/kg | 1.6 | U | | |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-P01 | | | PAFB-P02 | | | PAFB-P03 | | | | |
|-----------------------------|----------------|----------|----|----------------|----------|------|----------------|----------|-------|-----|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | |
| Analysis Date (Instrument) | 12/17/00 (MS4) | | | 12/18/00 (MS4) | | | 12/18/00 (MS4) | | | | |
| Percent Solids | 86 | weight % | RL | 93 | weight % | RL | 95 | weight % | RL | | |
| 1,2,4-Trichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 1,2-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 1,3-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 2,4,5-Trichlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 6.6 | U | | |
| 2,4,6-Trichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 2,4-Dichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 2,4-Dimethylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 2,4-Dinitrophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 6.6 | U | | |
| 2,4-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 2,6-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 2-Chloronaphthalene | mg/kg | 0.7 | R | mg/kg | 0.69 | R | mg/kg | 1.4 | R | | |
| 2-Chlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 2-Methylnaphthalene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 2-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 2-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 6.6 | U | | |
| 2-Nitrophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 3,3'-Dichlorobenzidine | mg/kg | 1.3 | R | mg/kg | 1.3 | R | mg/kg | 2.6 | R | | |
| 3-Nitroaniline | mg/kg | 3.3 | R | mg/kg | 3.3 | R | mg/kg | 6.6 | R | | |
| 4,6-Dinitro-2-methylphenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 6.6 | U | | |
| 4-Bromophenyl-phenylether | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 4-Chloro-3-methylphenol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 2.6 | U | | |
| 4-Chloroaniline | mg/kg | 1.3 | R | mg/kg | 1.3 | R | mg/kg | 2.6 | R | | |
| 4-Chlorophenyl-phenyl ether | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| 4-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| 4-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 6.6 | U | | |
| Acenaphthene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | 0.408 | mg/kg | 1.4 | F | |
| Acenaphthylene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Anthracene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | 0.666 | mg/kg | 1.4 | F | |
| benzo(a)anthracene | mg/kg | 0.7 | U | 0.1 | mg/kg | 0.69 | F | 2.11 | mg/kg | 1.4 | |
| Benzo(a)pyrene | mg/kg | 0.7 | U | 0.12 | mg/kg | 0.69 | F | 1.85 | mg/kg | 1.4 | R |
| Benzo(b)fluoranthene | mg/kg | 0.7 | U | 0.135 | mg/kg | 0.69 | F | 2.4 | mg/kg | 1.4 | R |
| Benzo(g,h,i)Perylene | mg/kg | 0.7 | U | 0.049 | mg/kg | 0.69 | F | 0.545 | mg/kg | 1.4 | R |
| Benzo(k)fluoranthene | mg/kg | 0.7 | U | 0.0979 | mg/kg | 0.69 | F | 1.71 | mg/kg | 1.4 | R |
| Benzoic acid | mg/kg | 1.6 | U | mg/kg | 1.6 | U | mg/kg | 3.2 | U | | |
| Benzyl alcohol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 2.6 | U | | |
| Bis(2-Chloroethoxy)Methane | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Bis(2-Chloroethyl)ether | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Butylbenzylphthalate | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Chrysene | mg/kg | 0.7 | U | 0.111 | mg/kg | 0.69 | F | 1.89 | mg/kg | 1.4 | U |
| Di-N-Butylphthalate | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Di-n-octylphthalate | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Dibenzo(a,h)Anthracene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | R | | |
| Dibenzofuran | mg/kg | 0.7 | U | mg/kg | 0.69 | U | 0.119 | mg/kg | 1.4 | F | |
| Diethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Dimethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Fluoranthene | mg/kg | 0.7 | U | 0.194 | mg/kg | 0.69 | F | 4.41 | mg/kg | 1.4 | |
| Fluorene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | 0.252 | mg/kg | 1.4 | F | |
| Hexachlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Hexachlorobutadiene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Hexachlorocyclopentadiene | mg/kg | 0.7 | R | mg/kg | 0.69 | R | mg/kg | 1.4 | R | | |
| Hexachloroethane | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.7 | U | 0.0486 | mg/kg | 0.69 | F | 0.559 | mg/kg | 1.4 | R |
| Isophorone | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| N-Nitroso-di-n-propylamine | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| N-Nitrosodiphenylamine | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Naphthalene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Nitrobenzene | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| Pentachlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 6.6 | U | | |
| Phenanthrene | mg/kg | 0.7 | U | 0.0979 | mg/kg | 0.69 | F | 2.76 | mg/kg | 1.4 | |
| phenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.6 | U | | |
| ene | mg/kg | 0.7 | U | 0.165 | mg/kg | 0.69 | F | 4.75 | mg/kg | 1.4 | |
| (2-Chloroisopropyl)ether | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| bis(2-Ethylhexyl)phthalate | mg/kg | 0.7 | U | mg/kg | 0.69 | U | mg/kg | 1.4 | U | | |
| p-Nitrophenol | mg/kg | 1.6 | U | mg/kg | 1.6 | U | mg/kg | 3.2 | U | | |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-P04 | | | PAFB-P05A (FD2) ¹ | | | PAFB-P05B (FD2) ¹ | | | | | |
|-----------------------------|----------------|----------|-----|------------------------------|----------|-------|------------------------------|----------|-------|-------|-----|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| Analysis Date (Instrument) | 12/18/00 (MS4) | | | 12/18/00 (MS4) | | | 12/22/00 (MS5) | | | | | |
| Percent Solids | 95 | weight % | RL | 94 | weight % | RL | 94 | weight % | RL | | | |
| 1,2,4-Trichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 1,2-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 1,3-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2,4,5-Trichlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | R | | | |
| 2,4,6-Trichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | R | | | |
| 2,4-Dichlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2,4-Dimethylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2,4-Dinitrophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| 2,4-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2,6-Dinitrotoluene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2-Chloronaphthalene | mg/kg | 0.7 | R | mg/kg | 0.7 | R | mg/kg | 0.7 | R | | | |
| 2-Chlorophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2-Methylnaphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| 2-Nitrophenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 3,3'-Dichlorobenzidine | mg/kg | 1.3 | R | mg/kg | 1.3 | R | mg/kg | 1.3 | U | | | |
| 3-Nitroaniline | mg/kg | 3.3 | R | mg/kg | 3.3 | R | mg/kg | 3.3 | U | | | |
| 4,6-Dinitro-2-methylphenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | R | | | |
| 4-Bromophenyl-phenylether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | | |
| 4-Chloro-3-methylphenol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | | |
| 4-Chloroaniline | mg/kg | 1.3 | R | mg/kg | 1.3 | R | mg/kg | 1.3 | U | | | |
| 4-Chlorophenyl-phenyl ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 4-Methylphenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 4-Nitroaniline | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | R | | | |
| Acenaphthene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Acenaphthylene | 0.097 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Anthracene | 0.129 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | |
| benzo(a)anthracene | 0.542 | mg/kg | 0.7 | F | 0.0516 | mg/kg | 0.7 | 0.203 | mg/kg | 0.7 | F | |
| benzo(a)pyrene | 0.588 | mg/kg | 0.7 | R | mg/kg | 0.7 | R | 0.175 | mg/kg | 0.7 | F | |
| Benzo(b)fluoranthene | 0.691 | mg/kg | 0.7 | R | 0.0818 | mg/kg | 0.7 | R | 0.268 | mg/kg | 0.7 | F |
| Benzo(g,h,i)Perylene | 0.167 | mg/kg | 0.7 | R | mg/kg | 0.7 | R | 0.0925 | mg/kg | 0.7 | F | |
| Benzo(k)fluoranthene | 0.533 | mg/kg | 0.7 | R | 0.0727 | mg/kg | 0.7 | R | 0.175 | mg/kg | 0.7 | F |
| Benzoic acid | mg/kg | 1.6 | U | mg/kg | 1.6 | U | mg/kg | 1.6 | R | | | |
| Benzyl alcohol | mg/kg | 1.3 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | | |
| Bis(2-Chloroethoxy)Methane | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Bis(2-Chloroethyl)ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Butylbenzylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Chrysene | 0.559 | mg/kg | 0.7 | F | 0.0602 | mg/kg | 0.7 | 0.21 | mg/kg | 0.7 | F | |
| Di-N-Butylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | | |
| Di-n-octylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | | |
| Dibenzo(a,h)Anthracene | mg/kg | 0.7 | R | mg/kg | 0.7 | R | mg/kg | 0.7 | U | | | |
| Dibenzofuran | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Diethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Dimethylphthalate | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Fluoranthene | 1.23 | mg/kg | 0.7 | 0.0793 | mg/kg | 0.7 | F | 0.323 | mg/kg | 0.7 | J | |
| Fluorene | 0.0546 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | |
| Hexachlorobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | | |
| Hexachlorobutadiene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Hexachlorocyclopentadiene | mg/kg | 0.7 | R | mg/kg | 0.7 | R | mg/kg | 0.7 | U | | | |
| Hexachloroethane | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Indeno(1,2,3-cd)pyrene | 0.184 | mg/kg | 0.7 | R | mg/kg | 0.7 | R | 0.0864 | mg/kg | 0.7 | F | |
| Isophorone | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| N-Nitroso-di-n-propylamine | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| N-Nitrosodiphenylamine | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | | |
| Naphthalene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Nitrobenzene | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Pentachlorophenol | mg/kg | 3.3 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | R | | | |
| Phenanthrene | 0.552 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | 0.164 | mg/kg | 0.7 | J | |
| Phenol | mg/kg | 0.3 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| Phenylene | 0.958 | mg/kg | 0.7 | 0.0938 | mg/kg | 0.7 | U | 0.354 | mg/kg | 0.7 | F | |
| (2-Chloroisopropyl)ether | mg/kg | 0.7 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| bis(2-Ethylhexyl)phthalate | mg/kg | 0.7 | U | 0.0516 | mg/kg | 0.7 | U | 0.0966 | mg/kg | 0.7 | F | |
| p-Nitrophenol | mg/kg | 1.6 | U | mg/kg | 1.6 | U | mg/kg | 1.6 | U | | | |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-P06 | | | | PAFB-P07 | | | | PAFB-P08 | | | |
|-----------------------------|----------------|----------|-----|---|----------------|----------|-----|---|----------------|----------|-----|---|
| Collection Date | 7-Dec-00 | | | | 7-Dec-00 | | | | 7-Dec-00 | | | |
| Analysis Date (Instrument) | 12/18/00 (MS4) | | | | 12/18/00 (MS4) | | | | 12/18/00 (MS4) | | | |
| Percent Solids | 91 | weight % | RL | | 96 | weight % | RL | | 96 | weight % | RL | |
| 1,2,4-Trichlorobenzene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 1,2-Dichlorobenzene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 1,3-Dichlorobenzene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 1,4-Dichlorobenzene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 2,4,5-Trichlorophenol | | mg/kg | 17 | U | | mg/kg | 3.3 | U | | mg/kg | 3.3 | U |
| 2,4,6-Trichlorophenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 2,4-Dichlorophenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 2,4-Dimethylphenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 2,4-Dinitrophenol | | mg/kg | 17 | U | | mg/kg | 3.3 | U | | mg/kg | 3.3 | U |
| 2,4-Dinitrotoluene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 2,6-Dinitrotoluene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 2-Chloronaphthalene | | mg/kg | 3.5 | R | | mg/kg | 0.7 | R | | mg/kg | 0.7 | R |
| 2-Chlorophenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 2-Methylnaphthalene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 2-Methylphenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 2-Nitroaniline | | mg/kg | 17 | U | | mg/kg | 3.3 | U | | mg/kg | 3.3 | U |
| 2-Nitrophenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 3,3'-Dichlorobenzidine | | mg/kg | 6.5 | R | | mg/kg | 1.3 | R | | mg/kg | 1.3 | R |
| 3-Nitroaniline | | mg/kg | 17 | R | | mg/kg | 3.3 | R | | mg/kg | 3.3 | R |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 17 | U | | mg/kg | 3.3 | U | | mg/kg | 3.3 | U |
| 4-Bromophenyl-phenylether | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 4-Chloro-3-methylphenol | | mg/kg | 6.5 | U | | mg/kg | 1.3 | U | | mg/kg | 1.3 | U |
| 4-Chloroaniline | | mg/kg | 6.5 | R | | mg/kg | 1.3 | R | | mg/kg | 1.3 | R |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| 4-Methylphenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| 4-Nitroaniline | | mg/kg | 17 | U | | mg/kg | 3.3 | U | | mg/kg | 3.3 | U |
| Acenaphthene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Acenaphthylene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| anthracene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| benzo(a)anthracene | 0.559 | mg/kg | 3.5 | F | | mg/kg | 0.7 | U | 0.0372 | mg/kg | 0.7 | F |
| Benzo(a)pyrene | 0.692 | mg/kg | 3.5 | R | | mg/kg | 0.7 | U | 0.0367 | mg/kg | 0.7 | F |
| Benzo(b)fluoranthene | 0.989 | mg/kg | 3.5 | R | | mg/kg | 0.7 | U | 0.0437 | mg/kg | 0.7 | F |
| Benzo(g,h,i)Perylene | | mg/kg | 3.5 | R | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Benzo(k)fluoranthene | 0.651 | mg/kg | 3.5 | R | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Benzoic acid | | mg/kg | 8 | U | | mg/kg | 1.6 | U | | mg/kg | 1.6 | U |
| Benzyl alcohol | | mg/kg | 6.5 | U | | mg/kg | 1.3 | U | | mg/kg | 1.3 | U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Bis(2-Chloroethyl)ether | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Butylbenzylphthalate | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Chrysene | 0.653 | mg/kg | 3.5 | F | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Di-N-Butylphthalate | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Di-n-octylphthalate | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Dibenzo(a,h)Anthracene | | mg/kg | 3.5 | R | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Dibenzofuran | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Diethylphthalate | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Dimethylphthalate | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Fluoranthene | 1.04 | mg/kg | 3.5 | F | | mg/kg | 0.7 | U | 0.0676 | mg/kg | 0.7 | F |
| Fluorene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Hexachlorobenzene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Hexachlorobutadiene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Hexachlorocyclopentadiene | | mg/kg | 3.5 | R | | mg/kg | 0.7 | R | | mg/kg | 0.7 | R |
| Hexachloroethane | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Indeno(1,2,3-cd)pyrene | | mg/kg | 3.5 | R | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Isophorone | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| N-Nitroso-di-n-propylamine | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| N-Nitrosodiphenylamine | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Naphthalene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Nitrobenzene | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| Pentachlorophenol | | mg/kg | 17 | U | | mg/kg | 3.3 | U | | mg/kg | 3.3 | U |
| Phenanthrene | 0.377 | mg/kg | 3.5 | F | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| phenol | | mg/kg | 1.5 | U | | mg/kg | 0.3 | U | | mg/kg | 0.3 | U |
| phenylene | 1.36 | mg/kg | 3.5 | F | | mg/kg | 0.7 | U | 0.0494 | mg/kg | 0.7 | F |
| bis(2-Chloroisopropyl)ether | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | | mg/kg | 0.7 | U |
| bis(2-Ethylhexyl)phthalate | | mg/kg | 3.5 | U | | mg/kg | 0.7 | U | 0.0519 | mg/kg | 0.7 | F |
| p-Nitrophenol | | mg/kg | 8 | U | | mg/kg | 1.6 | U | | mg/kg | 1.6 | U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-S01 | | | PAFB-S02 | | | PAFB-S03 | | | | | |
|-----------------------------|----------------|----------|-----|----------------|----------|-------|----------------|----------|-------|-------|-----|---|
| Collection Date | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | | | | |
| Analysis Date (Instrument) | 12/18/00 (MS4) | | | 12/18/00 (MS4) | | | 12/18/00 (MS4) | | | | | |
| Percent Solids | 95 | weight % | RL | 96 | weight % | RL | 92 | weight % | RL | | | |
| 1,2,4-Trichlorobenzene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 1,2-Dichlorobenzene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 1,3-Dichlorobenzene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 1,4-Dichlorobenzene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2,4,5-Trichlorophenol | mg/kg | 17 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| 2,4,6-Trichlorophenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2,4-Dichlorophenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2,4-Dimethylphenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2,4-Dinitrophenol | mg/kg | 17 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| 2,4-Dinitrotoluene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2,6-Dinitrotoluene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2-Chloronaphthalene | mg/kg | 3.5 | R | mg/kg | 0.7 | R | mg/kg | 0.7 | R | | | |
| 2-Chlorophenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2-Methylnaphthalene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 2-Methylphenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 2-Nitroaniline | mg/kg | 17 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| 2-Nitrophenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 3,3'-Dichlorobenzidine | mg/kg | 6.5 | R | mg/kg | 1.3 | R | mg/kg | 1.3 | R | | | |
| 3-Nitroaniline | mg/kg | 17 | R | mg/kg | 3.3 | R | mg/kg | 3.3 | R | | | |
| 4,6-Dinitro-2-methylphenol | mg/kg | 17 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| 4-Bromophenyl-phenylether | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 4-Chloro-3-methylphenol | mg/kg | 6.5 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | | |
| 4-Chloroaniline | mg/kg | 6.5 | R | mg/kg | 1.3 | R | mg/kg | 1.3 | R | | | |
| 4-Chlorophenyl-phenyl ether | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| 4-Methylphenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| 4-Nitroaniline | mg/kg | 17 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| Acenaphthene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Acenaphthylene | mg/kg | 3.5 | U | 0.0376 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | | |
| Anthracene | mg/kg | 3.5 | U | 0.0362 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | | |
| enzo(a)anthracene | 0.241 | mg/kg | 3.5 | F | 0.164 | mg/kg | 0.7 | F | 0.144 | mg/kg | 0.7 | F |
| Benzo(a)pyrene | mg/kg | 3.5 | R | 0.234 | mg/kg | 0.7 | F | 0.168 | mg/kg | 0.7 | R | |
| Benzo(b)fluoranthene | mg/kg | 3.5 | R | 0.211 | mg/kg | 0.7 | F | 0.214 | mg/kg | 0.7 | R | |
| Benzo(g,h,i)Perylene | mg/kg | 3.5 | R | 0.093 | mg/kg | 0.7 | F | mg/kg | 0.7 | R | | |
| Benzo(k)fluoranthene | mg/kg | 3.5 | R | 0.153 | mg/kg | 0.7 | F | 0.168 | mg/kg | 0.7 | R | |
| Benzoic acid | mg/kg | 8 | U | mg/kg | 1.6 | U | mg/kg | 1.6 | U | | | |
| Benzyl alcohol | mg/kg | 6.5 | U | mg/kg | 1.3 | U | mg/kg | 1.3 | U | | | |
| Bis(2-Chloroethoxy)Methane | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Bis(2-Chloroethyl)ether | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Butylbenzylphthalate | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Chrysene | 0.257 | mg/kg | 3.5 | F | 0.169 | mg/kg | 0.7 | F | 0.181 | mg/kg | 0.7 | F |
| Di-N-Butylphthalate | mg/kg | 3.5 | U | 0.299 | mg/kg | 0.7 | F | mg/kg | 0.7 | U | | |
| Di-n-octylphthalate | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Dibenzo(a,h)Anthracene | mg/kg | 3.5 | R | mg/kg | 0.7 | U | mg/kg | 0.7 | R | | | |
| Dibenzofuran | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Diethylphthalate | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Dimethylphthalate | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Fluoranthene | 0.48 | mg/kg | 3.5 | F | 0.318 | mg/kg | 0.7 | F | 0.307 | mg/kg | 0.7 | F |
| Fluorene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Hexachlorobenzene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Hexachlorobutadiene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Hexachlorocyclopentadiene | mg/kg | 3.5 | R | mg/kg | 0.7 | R | mg/kg | 0.7 | R | | | |
| Hexachloroethane | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 3.5 | R | 0.0977 | mg/kg | 0.7 | F | mg/kg | 0.7 | R | | |
| Isophorone | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| N-Nitroso-di-n-propylamine | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| N-Nitrosodiphenylamine | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Naphthalene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Nitrobenzene | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| Pentachlorophenol | mg/kg | 17 | U | mg/kg | 3.3 | U | mg/kg | 3.3 | U | | | |
| Phenanthrene | 0.374 | mg/kg | 3.5 | F | 0.135 | mg/kg | 0.7 | F | 0.18 | mg/kg | 0.7 | F |
| Phenol | mg/kg | 1.5 | U | mg/kg | 0.3 | U | mg/kg | 0.3 | U | | | |
| ene | 0.58 | mg/kg | 3.5 | F | 0.245 | mg/kg | 0.7 | F | 0.353 | mg/kg | 0.7 | F |
| (2-Chloroisopropyl)ether | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| bis(2-Ethylhexyl)phthalate | mg/kg | 3.5 | U | mg/kg | 0.7 | U | mg/kg | 0.7 | U | | | |
| p-Nitrophenol | mg/kg | 8 | U | mg/kg | 1.6 | U | mg/kg | 1.6 | U | | | |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| Collection Date | PAFB-S04 | | | PAFB-S05 | | | PAFB-S06 | | |
|-----------------------------|----------------|----------|-------|----------------------------|----------|-------|----------------|----------|-------|
| | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/18/00 (MS4) | | | 12/19/00 & 012/20/00 (MS4) | | | 12/18/00 (MS4) | | |
| Percent Solids | 95 | weight % | RL | 94 | weight % | RL | 96 | weight % | RL |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | 0.000302 | mg/kg | 0.7 F |
| 1,2-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 1,3-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 1,4-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 2,4,5-Trichlorophenol | | mg/kg | 3.3 U | | mg/kg | 17 U | | mg/kg | 3.3 U |
| 2,4,6-Trichlorophenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 2,4-Dichlorophenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 2,4-Dimethylphenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 2,4-Dinitrophenol | | mg/kg | 3.3 U | | mg/kg | 17 U | | mg/kg | 3.3 U |
| 2,4-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 2,6-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 2-Chloronaphthalene | | mg/kg | 0.7 R | | mg/kg | 3.5 R | | mg/kg | 0.7 R |
| 2-Chlorophenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 2-Methylnaphthalene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 2-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 2-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 17 U | | mg/kg | 3.3 U |
| 2-Nitrophenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 3,3'-Dichlorobenzidine | | mg/kg | 1.3 R | | mg/kg | 6.5 R | | mg/kg | 1.3 R |
| 3-Nitroaniline | | mg/kg | 3.3 R | | mg/kg | 17 R | | mg/kg | 3.3 R |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 3.3 U | | mg/kg | 17 U | | mg/kg | 3.3 U |
| 4-Bromophenyl-phenylether | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 4-Chloro-3-methylphenol | | mg/kg | 1.3 U | | mg/kg | 6.5 U | | mg/kg | 1.3 U |
| 4-Chloroaniline | | mg/kg | 1.3 R | | mg/kg | 6.5 R | | mg/kg | 1.3 R |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| 4-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| 4-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 17 U | | mg/kg | 3.3 U |
| Acenaphthene | | mg/kg | 0.7 U | 0.745 | mg/kg | 3.5 F | | mg/kg | 0.7 U |
| Acenaphthylene | | mg/kg | 0.7 U | 0.424 | mg/kg | 3.5 F | | mg/kg | 0.7 U |
| Anthracene | | mg/kg | 0.7 U | 2.26 | mg/kg | 3.5 F | | mg/kg | 0.7 U |
| enzo(a)anthracene | 0.0575 | mg/kg | 0.7 F | 8.94 | mg/kg | 3.5 F | 0.0494 | mg/kg | 0.7 F |
| Benzo(a)pyrene | 0.0597 | mg/kg | 0.7 F | | mg/kg | 14 U | 0.0581 | mg/kg | 0.7 F |
| Benzo(b)fluoranthene | 0.0764 | mg/kg | 0.7 F | | mg/kg | 14 U | 0.0765 | mg/kg | 0.7 F |
| Benzo(g,h,i)Perylene | | mg/kg | 0.7 U | | mg/kg | 14 U | | mg/kg | 0.7 U |
| Benzo(k)fluoranthene | 0.0471 | mg/kg | 0.7 F | | mg/kg | 14 U | 0.0477 | mg/kg | 0.7 F |
| Benzoic acid | | mg/kg | 1.6 U | | mg/kg | 8 U | | mg/kg | 1.6 U |
| Benzyl alcohol | | mg/kg | 1.3 U | | mg/kg | 6.5 U | | mg/kg | 1.3 U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Bis(2-Chloroethyl)ether | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Butylbenzylphthalate | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Chrysene | 0.0663 | mg/kg | 0.7 F | 8.67 | mg/kg | 3.5 F | 0.0563 | mg/kg | 0.7 F |
| Di-N-Butylphthalate | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Di-n-octylphthalate | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Dibenzo(a,h)Anthracene | | mg/kg | 0.7 U | | mg/kg | 14 U | | mg/kg | 0.7 U |
| Dibenzofuran | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Diethylphthalate | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Dimethylphthalate | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Fluoranthene | 0.15 | mg/kg | 0.7 F | 20 | mg/kg | 14 F | 0.0886 | mg/kg | 0.7 F |
| Fluorene | | mg/kg | 0.7 U | 1.11 | mg/kg | 3.5 F | | mg/kg | 0.7 U |
| Hexachlorobenzene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Hexachlorobutadiene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Hexachlorocyclopentadiene | | mg/kg | 0.7 R | | mg/kg | 3.5 U | | mg/kg | 0.7 R |
| Hexachloroethane | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Indeno(1,2,3-cd)pyrene | | mg/kg | 0.7 U | | mg/kg | 14 U | | mg/kg | 0.7 U |
| Isophorone | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| N-Nitroso-di-n-propylamine | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| N-Nitrosodiphenylamine | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Naphthalene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Nitrobenzene | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| Pentachlorophenol | | mg/kg | 3.3 U | | mg/kg | 17 U | | mg/kg | 3.3 U |
| Phenanthrene | 0.0986 | mg/kg | 0.7 F | 8.39 | mg/kg | 3.5 F | | mg/kg | 0.7 U |
| Phenol | | mg/kg | 0.3 U | | mg/kg | 1.5 U | | mg/kg | 0.3 U |
| ene | 0.109 | mg/kg | 0.7 F | 27 | mg/kg | 3.5 F | 0.0794 | mg/kg | 0.7 F |
| s(2-Chloroisopropyl)ether | | mg/kg | 0.7 U | | mg/kg | 3.5 U | | mg/kg | 0.7 U |
| bis(2-Ethylhexyl)phthalate | | mg/kg | 0.7 U | | mg/kg | 3.5 U | 0.0845 | mg/kg | 0.7 F |
| p-Nitrophenol | | mg/kg | 1.6 U | | mg/kg | 8 U | | mg/kg | 1.6 U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| Collection Date | PAFB-S07A (FD3) ¹ | | | PAFB-S07B (FD3) ¹ | | | PAFB-S08 | | |
|------------------------------|------------------------------|----------|-------|------------------------------|----------|-------|----------------|----------|-------|
| | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/18/00 (MS4) | | | 12/18/00 (MS4) | | | 12/17/00 (MS4) | | |
| Percent Solids | 94 | weight % | RL | 90 | weight % | RL | 96 | weight % | RL |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,2-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,3-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,4-Dichlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,4,5-Trichlorophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4,6-Trichlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dichlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dimethylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dinitrophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,6-Dinitrotoluene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chloronaphthalene | | mg/kg | 0.7 R | | mg/kg | 0.7 R | | mg/kg | 0.7 R |
| 2-Chlorophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Methylnaphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2-Nitrophenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 3,3'-Dichlorobenzidine | | mg/kg | 1.3 R | | mg/kg | 1.3 R | | mg/kg | 1.3 R |
| 3-Nitroaniline | | mg/kg | 3.3 R | | mg/kg | 3.3 R | | mg/kg | 3.3 R |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 4-Bromophenyl-phenylether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Chloro-3-methylphenol | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| 4-Chloroaniline | | mg/kg | 1.3 R | | mg/kg | 1.3 R | | mg/kg | 1.3 R |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Methylphenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 4-Nitroaniline | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Acenaphthene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Acenaphthylene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Anthracene | | mg/kg | 0.7 U | 0.0798 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| benzo(a)anthracene | 0.0546 | mg/kg | 0.7 F | 0.398 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| benzo(a)pyrene | 0.0531 | mg/kg | 0.7 R | 0.357 | mg/kg | 0.7 R | | mg/kg | 0.7 U |
| Benzo(b)fluoranthene | 0.0719 | mg/kg | 0.7 R | 0.394 | mg/kg | 0.7 R | | mg/kg | 0.7 U |
| Benzo(g,h,i)Perylene | | mg/kg | 0.7 R | 0.107 | mg/kg | 0.7 R | | mg/kg | 0.7 U |
| Benzo(k)fluoranthene | 0.052 | mg/kg | 0.7 R | 0.373 | mg/kg | 0.7 R | | mg/kg | 0.7 U |
| Benzoic acid | | mg/kg | 1.6 U | | mg/kg | 1.6 U | | mg/kg | 1.6 U |
| Benzyl alcohol | | mg/kg | 1.3 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Bis(2-Chloroethyl)ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Butylbenzylphthalate | | mg/kg | 0.7 U | 0.117 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Chrysene | 0.0555 | mg/kg | 0.7 F | 0.355 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Di-N-Butylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Di-n-octylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dibenzo(a,h)Anthracene | | mg/kg | 0.7 R | | mg/kg | 0.7 R | | mg/kg | 0.7 U |
| Dibenzofuran | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Diethylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dimethylphthalate | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Fluoranthene | 0.0993 | mg/kg | 0.7 F | 0.711 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Fluorene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobutadiene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorocyclopentadiene | | mg/kg | 0.7 R | | mg/kg | 0.7 R | | mg/kg | 0.7 R |
| Hexachloroethane | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Indeno(1,2,3-cd)pyrene | | mg/kg | 0.7 R | 0.113 | mg/kg | 0.7 R | | mg/kg | 0.7 U |
| Isophorone | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitroso-di-n-propylamine | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitrosodiphenylamine | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Naphthalene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 M |
| Nitrobenzene | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Pentachlorophenol | | mg/kg | 3.3 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Phenanthrene | | mg/kg | 0.7 U | 0.267 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| Phenol | | mg/kg | 0.3 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| phenanthrene | 0.0855 | mg/kg | 0.7 F | 0.74 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| 2-(2-Chloroisopropyl)ether | | mg/kg | 0.7 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-bis(2-Ethylhexyl)phthalate | 0.0591 | mg/kg | 0.7 F | 0.138 | mg/kg | 0.7 F | | mg/kg | 0.7 U |
| p-Nitrophenol | | mg/kg | 1.6 U | | mg/kg | 1.6 U | | mg/kg | 1.6 U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

| Collection Date | PAFB-S09 | | | PAFB-S10 | | | PAFB-S11 | | |
|--------------------------------|-------------------------------|----------|-------|----------------|----------|-------|----------------|----------|-------|
| | 7-Dec-00 | | | 7-Dec-00 | | | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/18/00(MS4) & 12/15/00(MS5) | | | 12/17/00 (MS5) | | | 12/22/00 (MS5) | | |
| Percent Solids | 95 | weight % | RL | 95 | weight % | RL | 93 | weight % | RL |
| 1,2,4-Trichlorobenzene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,2-Dichlorobenzene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,3-Dichlorobenzene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 1,4-Dichlorobenzene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,4,5-Trichlorophenol | | mg/kg | 6.6 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4,6-Trichlorophenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dichlorophenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dimethylphenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2,4-Dinitrophenol | | mg/kg | 6.6 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2,4-Dinitrotoluene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2,6-Dinitrotoluene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chloronaphthalene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Chlorophenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Methylnaphthalene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 2-Methylphenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 2-Nitroaniline | | mg/kg | 6.6 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 2-Nitrophenol | | mg/kg | 0.6 R | | mg/kg | 0.3 R | | mg/kg | 0.3 U |
| 3,3'-Dichlorobenzidine | 0.041 | mg/kg | 2.6 F | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| 3-Nitroaniline | | mg/kg | 6.6 R | | mg/kg | 3.3 R | | mg/kg | 3.3 U |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 6.6 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| 4-Bromophenyl-phenylether | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Chloro-3-methylphenol | | mg/kg | 2.6 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| 4-Chloroaniline | | mg/kg | 2.6 R | | mg/kg | 1.3 R | | mg/kg | 1.3 U |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| 4-Methylphenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| 4-Nitroaniline | | mg/kg | 6.6 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Acenaphthene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Acenaphthylene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Anthracene | 0.11 | mg/kg | 1.4 F | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| benzo(a)anthracene | 0.94 | mg/kg | 1.4 F | 0.0413 | mg/kg | 0.7 F | 0.137 | mg/kg | 0.7 F |
| Benzo(a)pyrene | 1.04 | mg/kg | 1.4 R | 0.0432 | mg/kg | 0.7 F | 0.133 | mg/kg | 0.7 F |
| Benzo(b)fluoranthene | 1.29 | mg/kg | 1.4 R | 0.0578 | mg/kg | 0.7 F | 0.171 | mg/kg | 0.7 F |
| Benzo(g,h,i)Perylene | 0.251 | mg/kg | 1.4 R | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Benzo(k)fluoranthene | 0.83 | mg/kg | 1.4 R | | mg/kg | 0.7 F | 0.148 | mg/kg | 0.7 F |
| Benzoic acid | | mg/kg | 3.2 U | | mg/kg | 1.6 U | | mg/kg | 1.6 R |
| Benzyl alcohol | | mg/kg | 2.6 U | | mg/kg | 1.3 U | | mg/kg | 1.3 U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Bis(2-Chloroethyl)ether | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Butylbenzylphthalate | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Chrysene | 0.959 | mg/kg | 1.4 F | 0.0447 | mg/kg | 0.7 F | 0.15 | mg/kg | 0.7 F |
| Di-N-Butylphthalate | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Di-n-octylphthalate | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 R |
| Dibenzo(a,h)Anthracene | | mg/kg | 1.4 R | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dibenzofuran | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Diethylphthalate | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Dimethylphthalate | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Fluoranthene | 1.55 | mg/kg | 1.4 U | 0.0742 | mg/kg | 0.7 F | 0.242 | mg/kg | 0.7 F |
| Fluorene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobenzene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorobutadiene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachlorocyclopentadiene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Hexachloroethane | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Indeno(1,2,3-cd)pyrene | 0.224 | mg/kg | 1.4 R | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Isophorone | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitroso-di-n-propylamine | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| N-Nitrosodiphenylamine | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Naphthalene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Nitrobenzene | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| Pentachlorophenol | | mg/kg | 6.6 U | | mg/kg | 3.3 U | | mg/kg | 3.3 U |
| Phenanthrene | 0.278 | mg/kg | 1.4 F | | mg/kg | 0.7 U | 0.115 | mg/kg | 0.7 F |
| Phenol | | mg/kg | 0.6 U | | mg/kg | 0.3 U | | mg/kg | 0.3 U |
| Phenylene | 1.82 | mg/kg | 1.4 U | 0.0662 | mg/kg | 0.7 F | 0.238 | mg/kg | 0.7 F |
| Phenyl(2-Chloroisopropyl)ether | | mg/kg | 1.4 U | | mg/kg | 0.7 U | | mg/kg | 0.7 U |
| bis(2-Ethylhexyl)phthalate | 1.07 | mg/kg | 1.4 F | 0.0657 | mg/kg | 0.7 F | 0.0914 | mg/kg | 0.7 F |
| p-Nitrophenol | | mg/kg | 3.2 U | | mg/kg | 1.6 U | | mg/kg | 1.6 U |

Table 1(SVOC)
Analytical Results for Semivolatiles by
Method SW846 8270C

3:47 PM

| | PAFB-S12 | | |
|-----------------------------|----------------|----------|-------|
| Collection Date | 7-Dec-00 | | |
| Analysis Date (Instrument) | 12/18/00 (MS5) | | |
| Percent Solids | 95 | weight % | RL |
| 1,2,4-Trichlorobenzene | | mg/kg | 0.7 U |
| 1,2-Dichlorobenzene | | mg/kg | 0.7 U |
| 1,3-Dichlorobenzene | | mg/kg | 0.7 U |
| 1,4-Dichlorobenzene | | mg/kg | 0.7 U |
| 2,4,5-Trichlorophenol | | mg/kg | 3.3 U |
| 2,4,6-Trichlorophenol | | mg/kg | 0.3 U |
| 2,4-Dichlorophenol | | mg/kg | 0.3 U |
| 2,4-Dimethylphenol | | mg/kg | 0.3 U |
| 2,4-Dinitrophenol | | mg/kg | 3.3 U |
| 2,4-Dinitrotoluene | | mg/kg | 0.7 U |
| 2,6-Dinitrotoluene | | mg/kg | 0.7 U |
| 2-Chloronaphthalene | | mg/kg | 0.7 U |
| 2-Chlorophenol | | mg/kg | 0.3 U |
| 2-Methylnaphthalene | | mg/kg | 0.7 U |
| 2-Methylphenol | | mg/kg | 0.3 U |
| 2-Nitroaniline | | mg/kg | 3.3 U |
| 2-Nitrophenol | | mg/kg | 0.3 R |
| 3,3'-Dichlorobenzidine | | mg/kg | 1.3 U |
| 3-Nitroaniline | | mg/kg | 3.3 R |
| 4,6-Dinitro-2-methylphenol | | mg/kg | 3.3 U |
| 4-Bromophenyl-phenylether | | mg/kg | 0.7 U |
| 4-Chloro-3-methylphenol | | mg/kg | 1.3 U |
| 4-Chloroaniline | | mg/kg | 1.3 R |
| 4-Chlorophenyl-phenyl ether | | mg/kg | 0.7 U |
| 4-Methylphenol | | mg/kg | 0.3 U |
| 4-Nitroaniline | | mg/kg | 3.3 U |
| Acenaphthene | | mg/kg | 0.7 U |
| Acenaphthylene | | mg/kg | 0.7 U |
| Anthracene | | mg/kg | 0.7 U |
| benzo(a)anthracene | 0.059 | mg/kg | 0.7 F |
| Benzo(a)pyrene | 0.0634 | mg/kg | 0.7 F |
| Benzo(b)fluoranthene | 0.0651 | mg/kg | 0.7 F |
| Benzo(g,h,i)Perylene | 0.0307 | mg/kg | 0.7 F |
| Benzo(k)fluoranthene | 0.0436 | mg/kg | 0.7 F |
| Benzoic acid | | mg/kg | 1.6 R |
| Benzyl alcohol | | mg/kg | 1.3 U |
| Bis(2-Chloroethoxy)Methane | | mg/kg | 0.7 U |
| Bis(2-Chloroethyl)ether | | mg/kg | 0.7 U |
| Butylbenzylphthalate | | mg/kg | 0.7 U |
| Chrysene | 0.0578 | mg/kg | 0.7 F |
| Di-N-Butylphthalate | | mg/kg | 0.7 U |
| Di-n-octylphthalate | | mg/kg | 0.7 U |
| Dibenzo(a,h)Anthracene | | mg/kg | 0.7 U |
| Dibenzofuran | | mg/kg | 0.7 U |
| Diethylphthalate | | mg/kg | 0.7 U |
| Dimethylphthalate | | mg/kg | 0.7 U |
| Fluoranthene | 0.0965 | mg/kg | 0.7 F |
| Fluorene | | mg/kg | 0.7 U |
| Hexachlorobenzene | | mg/kg | 0.7 U |
| Hexachlorobutadiene | | mg/kg | 0.7 U |
| Hexachlorocyclopentadiene | | mg/kg | 0.7 U |
| Hexachloroethane | | mg/kg | 0.7 U |
| Indeno(1,2,3-cd)pyrene | | mg/kg | 0.7 U |
| Isophorone | | mg/kg | 0.7 U |
| N-Nitroso-di-n-propylamine | | mg/kg | 0.7 U |
| N-Nitrosodiphenylamine | | mg/kg | 0.7 U |
| Naphthalene | | mg/kg | 0.7 U |
| Nitrobenzene | | mg/kg | 0.7 U |
| Pentachlorophenol | | mg/kg | 3.3 U |
| Phenanthrene | 0.0371 | mg/kg | 0.7 F |
| phenol | | mg/kg | 0.3 U |
| rene | 0.0889 | mg/kg | 0.7 F |
| is(2-Chloroisopropyl)ether | | mg/kg | 0.7 U |
| bis(2-Ethylhexyl)phthalate | 0.0763 | mg/kg | 0.7 F |
| p-Nitrophenol | | mg/kg | 1.6 U |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-B01 | | | PAFB-B02 | | | PAFB-B03 | | |
|------------------|----------|----------|------|----------|----------|------|----------|----------|------|
| | 98 | weight % | RL | 94 | weight % | RL | 90 | weight % | RL |
| Percent Solids | | | | | | | | | |
| Aluminum, Total | 3320 | mg/kg | 22 | 2940 | mg/kg | 23 | 1840 | mg/kg | 24 |
| Antimony, Total | 0.499 | mg/kg | 1 | | mg/kg | 1.1 | | mg/kg | 1.1 |
| Arsenic, Total | 1.66 | mg/kg | 1 | 1.52 | mg/kg | 1.1 | 0.974 | mg/kg | 1.1 |
| Barium, Total | 98.4 | mg/kg | 1 | 12.7 | mg/kg | 1.1 | 8.53 | mg/kg | 1.1 |
| Beryllium, Total | 0.139 | mg/kg | 0.31 | 0.179 | mg/kg | 0.32 | 0.114 | mg/kg | 0.33 |
| Cadmium, Total | 0.113 | mg/kg | 0.1 | | mg/kg | 0.11 | | mg/kg | 0.11 |
| Calcium, Total | 41000 | mg/kg | 100 | 15500 | mg/kg | 110 | 10200 | mg/kg | 110 |
| Chromium, Total | 7.19 | mg/kg | 20 | 5.17 | mg/kg | 21 | 3 | mg/kg | 22 |
| Cobalt, Total | 2.43 | mg/kg | 10 | 2.5 | mg/kg | 11 | 1.67 | mg/kg | 11 |
| Copper, Total | 7.54 | mg/kg | 2 | 4.47 | mg/kg | 2.1 | 1.77 | mg/kg | 2.2 |
| Iron, Total | 6290 | mg/kg | 3.1 | 6350 | mg/kg | 3.2 | 4130 | mg/kg | 3.3 |
| Lead, Total | 24.4 | mg/kg | 1 | 3.91 | mg/kg | 1.1 | 1.41 | mg/kg | 1.1 |
| Magnesium, Total | 5060 | mg/kg | 100 | 5550 | mg/kg | 110 | 2530 | mg/kg | 110 |
| Manganese, Total | 121 | mg/kg | 2 | 185 | mg/kg | 2.1 | 57.3 | mg/kg | 2.2 |
| Mercury, Total | | mg/kg | 0.1 | | mg/kg | 0.11 | | mg/kg | 0.11 |
| Nickel, Total | 5.96 | mg/kg | 2 | 4.47 | mg/kg | 2.1 | 2.34 | mg/kg | 2.2 |
| Potassium, Total | 603 | mg/kg | 610 | 883 | mg/kg | 640 | 418 | mg/kg | 670 |
| Selenium, Total | 0.611 | mg/kg | 1 | 0.466 | mg/kg | 1.1 | | mg/kg | 1.1 |
| Silver, Total | | mg/kg | 1 | 0.163 | mg/kg | 1.1 | | mg/kg | 1.1 |
| Sodium, Total | 50.5 | mg/kg | 10 | 50.5 | mg/kg | 11 | 45.6 | mg/kg | 11 |
| Thallium, Total | | mg/kg | 0.31 | | mg/kg | 0.32 | | mg/kg | 0.33 |
| Vanadium, Total | 9.39 | mg/kg | 1 | 6.91 | mg/kg | 1.1 | 5.44 | mg/kg | 1.1 |
| Zinc, Total | 29.4 | mg/kg | 1 | 13.8 | mg/kg | 1.1 | 7.22 | mg/kg | 1.1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-B04 | | | PAFB-B05 | | | PAFB-B06 | | |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | |
| Percent Solids | 95 | weight % | RL | 97 | weight % | RL | 96 | weight % | RL |
| Aluminum, Total | 3420 | mg/kg | 23 | 1690 | mg/kg | 23 | 2360 | mg/kg | 23 |
| Antimony, Total | 0.939 | mg/kg | 1.1 | F | U | U | | | U |
| Arsenic, Total | 1.44 | mg/kg | 1.1 | 1.22 | mg/kg | 1 | 0.94 | mg/kg | 1 |
| Barium, Total | 18 | mg/kg | 1.1 | 12 | mg/kg | 1 | 10.7 | mg/kg | 1 |
| Beryllium, Total | 0.193 | mg/kg | 0.32 | F | F | F | 0.128 | mg/kg | 0.31 |
| Cadmium, Total | | mg/kg | 0.11 | U | U | U | | mg/kg | 0.1 |
| Calcium, Total | 1960 | mg/kg | 110 | 4840 | mg/kg | 100 | 4890 | mg/kg | 100 |
| Chromium, Total | 4.87 | mg/kg | 21 | 3.22 | mg/kg | 21 | 3.81 | mg/kg | 21 |
| Cobalt, Total | 2.4 | mg/kg | 11 | 1.78 | mg/kg | 10 | 2.09 | mg/kg | 10 |
| Copper, Total | 2.92 | mg/kg | 2.1 | 1.61 | mg/kg | 2.1 | 2.15 | mg/kg | 2.1 |
| Iron, Total | 6790 | mg/kg | 3.2 | 5130 | mg/kg | 3.1 | 5420 | mg/kg | 3.1 |
| Lead, Total | 1.84 | mg/kg | 1.1 | 0.604 | mg/kg | 1 | 0.781 | mg/kg | 1 |
| Magnesium, Total | 1060 | mg/kg | 110 | 2620 | mg/kg | 100 | 2900 | mg/kg | 100 |
| Manganese, Total | 99.6 | mg/kg | 2.1 | 61.2 | mg/kg | 2.1 | 73.6 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.11 | U | U | U | | mg/kg | 0.1 |
| Nickel, Total | 3.72 | mg/kg | 2.1 | 2.02 | mg/kg | 2.1 | 2.77 | mg/kg | 2.1 |
| Potassium, Total | 514 | mg/kg | 630 | 327 | mg/kg | 620 | 484 | mg/kg | 630 |
| Selenium, Total | 0.827 | mg/kg | 1.1 | 0.341 | mg/kg | 1 | | mg/kg | 1 |
| Silver, Total | | mg/kg | 1.1 | U | U | U | | mg/kg | 1 |
| Sodium, Total | 56.4 | mg/kg | 11 | 53.3 | mg/kg | 10 | 56.7 | mg/kg | 10 |
| Thallium, Total | 0.165 | mg/kg | 0.32 | F | U | U | 0.163 | mg/kg | 0.31 |
| Vanadium, Total | 8.91 | mg/kg | 1.1 | 6.93 | mg/kg | 1 | 6.92 | mg/kg | 1 |
| Zinc, Total | 14.5 | mg/kg | 1.1 | 14.3 | mg/kg | 1 | 8.26 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-B07 | | | PAFB-B08 | | | PAFB-B09A (FDI) ¹ | | |
|------------------|----------|----------|----------|----------|----------|----------|------------------------------|----------|----------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 |
| Percent Solids | 97 | weight % | RL | 96 | weight % | RL | 96 | weight % | RL |
| Aluminum, Total | 2390 | mg/kg | 23 | 1890 | mg/kg | 23 | 3490 | mg/kg | 23 |
| Antimony, Total | 0.529 | mg/kg | 1 | 0.559 | mg/kg | 1.1 | 0.478 | mg/kg | 1 |
| Arsenic, Total | 1.38 | mg/kg | 1 | 0.94 | mg/kg | 1.1 | 1.71 | mg/kg | 1 |
| Barium, Total | 14.9 | mg/kg | 1 | 11.1 | mg/kg | 1.1 | 19.1 | mg/kg | 1 |
| Beryllium, Total | 0.123 | mg/kg | 0.31 | 0.102 | mg/kg | 0.32 | 0.186 | mg/kg | 0.31 |
| Cadmium, Total | 0.0438 | mg/kg | 0.1 | 0.0438 | mg/kg | 0.11 | 0.0377 | mg/kg | 0.1 |
| Calcium, Total | 22600 | mg/kg | 100 | 4000 | mg/kg | 110 | 15900 | mg/kg | 100 |
| Chromium, Total | 3.67 | mg/kg | 21 | 3.29 | mg/kg | 21 | 4.6 | mg/kg | 21 |
| Cobalt, Total | 2.31 | mg/kg | 10 | 1.88 | mg/kg | 11 | 2.74 | mg/kg | 10 |
| Copper, Total | 3.18 | mg/kg | 2.1 | 1.82 | mg/kg | 2.1 | 3.56 | mg/kg | 2.1 |
| Iron, Total | 6370 | mg/kg | 3.1 | 4940 | mg/kg | 3.2 | 7710 | mg/kg | 3.1 |
| Lead, Total | 2.4 | mg/kg | 1 | 0.819 | mg/kg | 1.1 | 7.13 | mg/kg | 1 |
| Magnesium, Total | 7280 | mg/kg | 100 | 2340 | mg/kg | 110 | 4860 | mg/kg | 100 |
| Manganese, Total | 191 | mg/kg | 2.1 | 66.3 | mg/kg | 2.1 | 249 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.1 | | mg/kg | 0.11 | | mg/kg | 0.1 |
| Nickel, Total | 5.99 | mg/kg | 2.1 | 2.59 | mg/kg | 2.1 | 3.7 | mg/kg | 2.1 |
| Potassium, Total | 544 | mg/kg | 620 | 371 | mg/kg | 630 | 641 | mg/kg | 630 |
| Selenium, Total | 0.499 | mg/kg | 1 | 0.586 | mg/kg | 1.1 | 0.78 | mg/kg | 1 |
| Silver, Total | 0.124 | mg/kg | 1 | | mg/kg | 1.1 | | mg/kg | 1 |
| Sodium, Total | 49 | mg/kg | 10 | 44.8 | mg/kg | 11 | 40.4 | mg/kg | 10 |
| Thallium, Total | 0.177 | mg/kg | 0.31 | | mg/kg | 0.32 | 0.179 | mg/kg | 0.31 |
| Vanadium, Total | 5.63 | mg/kg | 1 | 6.29 | mg/kg | 1.1 | 9.77 | mg/kg | 1 |
| Zinc, Total | 16.4 | mg/kg | 1 | 14.9 | mg/kg | 1.1 | 14 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-B09B (FDI) ¹ | | | PAFB-B10 | | | PAFB-B11 | | | |
|------------------|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | |
| Percent Solids | 96 | weight % | RL | 97 | weight % | RL | 98 | weight % | RL | |
| Aluminum, Total | 2650 | mg/kg | 23 | J | 2290 | mg/kg | 23 | 2480 | mg/kg | 22 |
| Antimony, Total | 0.651 | mg/kg | 1 | F | | mg/kg | 1 | | mg/kg | 1 |
| Arsenic, Total | 1.17 | mg/kg | 1 | | 1.48 | mg/kg | 1 | 1.44 | mg/kg | 1 |
| Barium, Total | 10.7 | mg/kg | 1 | J | 12.2 | mg/kg | 1 | 9.19 | mg/kg | 1 |
| Beryllium, Total | 0.148 | mg/kg | 0.31 | F | 0.155 | mg/kg | 0.31 | 0.184 | mg/kg | 0.31 |
| Cadmium, Total | | mg/kg | 0.1 | U | 0.0546 | mg/kg | 0.1 | | mg/kg | 0.1 |
| Calcium, Total | 10200 | mg/kg | 100 | J | 19100 | mg/kg | 100 | 3520 | mg/kg | 100 |
| Chromium, Total | 3.45 | mg/kg | 21 | F | 3.97 | mg/kg | 21 | 3.44 | mg/kg | 20 |
| Cobalt, Total | 2.03 | mg/kg | 10 | F | 2.06 | mg/kg | 10 | 2.29 | mg/kg | 10 |
| Copper, Total | 2.63 | mg/kg | 2.1 | | 4.38 | mg/kg | 2.1 | 2.56 | mg/kg | 2 |
| Iron, Total | 5360 | mg/kg | 3.1 | J | 5270 | mg/kg | 3.1 | 6640 | mg/kg | 3.1 |
| Lead, Total | 2.64 | mg/kg | 1 | J | 4.53 | mg/kg | 1 | 0.791 | mg/kg | 1 |
| Magnesium, Total | 4990 | mg/kg | 100 | | 8430 | mg/kg | 100 | 2880 | mg/kg | 100 |
| Manganese, Total | 152 | mg/kg | 2.1 | J | 160 | mg/kg | 2.1 | 113 | mg/kg | 2 |
| Mercury, Total | | mg/kg | 0.1 | U | | mg/kg | 0.1 | | mg/kg | 0.1 |
| Nickel, Total | 3.26 | mg/kg | 2.1 | | 2.96 | mg/kg | 2.1 | 3.92 | mg/kg | 2 |
| Potassium, Total | 483 | mg/kg | 630 | F | 487 | mg/kg | 620 | 413 | mg/kg | 610 |
| Selenium, Total | 0.661 | mg/kg | 1 | F | 0.522 | mg/kg | 1 | 0.838 | mg/kg | 1 |
| Silver, Total | | mg/kg | 1 | U | | mg/kg | 1 | | mg/kg | 1 |
| Sodium, Total | 47.6 | mg/kg | 10 | | 82.2 | mg/kg | 10 | 51.4 | mg/kg | 10 |
| Thallium, Total | 0.18 | mg/kg | 0.31 | F | | mg/kg | 0.31 | | mg/kg | 0.31 |
| Vanadium, Total | 5.57 | mg/kg | 1 | J | 6.31 | mg/kg | 1 | 5.76 | mg/kg | 1 |
| Zinc, Total | 18.4 | mg/kg | 1 | | 12.1 | mg/kg | 1 | 10.7 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-B12 | | | PAFB-B13 | | |
|------------------|----------|----------|------|----------|----------|------|
| | 96 | weight % | RL | 96 | weight % | RL |
| Percent Solids | | | | | | |
| Aluminum, Total | 3190 | mg/kg | 23 | 3850 | mg/kg | 23 |
| Antimony, Total | 0.446 | mg/kg | 1 | | mg/kg | 1 |
| Arsenic, Total | 1.49 | mg/kg | 1 | 1.68 | mg/kg | 1 |
| Barium, Total | 15.8 | mg/kg | 1 | 294 | mg/kg | 1 |
| Beryllium, Total | 0.199 | mg/kg | 0.31 | 0.203 | mg/kg | 0.31 |
| Cadmium, Total | 0.0459 | mg/kg | 0.1 | 0.151 | mg/kg | 0.1 |
| Calcium, Total | 8170 | mg/kg | 100 | 9160 | mg/kg | 100 |
| Chromium, Total | 4.31 | mg/kg | 21 | 6.54 | mg/kg | 21 |
| Cobalt, Total | 2.32 | mg/kg | 10 | 2.49 | mg/kg | 10 |
| Copper, Total | 3.53 | mg/kg | 2.1 | 5.52 | mg/kg | 2.1 |
| Iron, Total | 6410 | mg/kg | 3.1 | 7400 | mg/kg | 3.1 |
| Lead, Total | 7.33 | mg/kg | 1 | 14.3 | mg/kg | 1 |
| Magnesium, Total | 2290 | mg/kg | 100 | 2550 | mg/kg | 100 |
| Manganese, Total | 148 | mg/kg | 2.1 | 132 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.1 | 0.02 | mg/kg | 0.1 |
| Nickel, Total | 3.84 | mg/kg | 2.1 | 4.79 | mg/kg | 2.1 |
| Potassium, Total | 614 | mg/kg | 630 | 651 | mg/kg | 630 |
| Selenium, Total | 0.759 | mg/kg | 1 | 2.71 | mg/kg | 1 |
| Silver, Total | | mg/kg | 1 | | mg/kg | 1 |
| Sodium, Total | 31 | mg/kg | 10 | 43 | mg/kg | 10 |
| Thallium, Total | | mg/kg | 0.31 | | mg/kg | 0.31 |
| Vanadium, Total | 9.3 | mg/kg | 1 | 9.91 | mg/kg | 1 |
| Zinc, Total | 16.7 | mg/kg | 1 | 73.9 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-P01 | | | PAFB-P02 | | | PAFB-P03 | | |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | |
| Percent Solids | 86 | weight % | RL | 93 | weight % | RL | 95 | weight % | RL |
| Aluminum, Total | 2500 | mg/kg | 26 | 3590 | mg/kg | 24 | 2710 | mg/kg | 23 |
| Antimony, Total | | mg/kg | 1.2 | | mg/kg | 1.1 | | mg/kg | 1.1 |
| Arsenic, Total | 1.03 | mg/kg | 1.2 | 1.86 | mg/kg | 1.1 | 1.36 | mg/kg | 1.1 |
| Barium, Total | 13.4 | mg/kg | 1.2 | 23.5 | mg/kg | 1.1 | 16 | mg/kg | 1.1 |
| Beryllium, Total | 0.147 | mg/kg | 0.35 | 0.185 | mg/kg | 0.32 | 0.154 | mg/kg | 0.32 |
| Cadmium, Total | | mg/kg | 0.12 | 0.0897 | mg/kg | 0.11 | 0.287 | mg/kg | 0.11 |
| Calcium, Total | 3580 | mg/kg | 120 | 12200 | mg/kg | 110 | 3590 | mg/kg | 110 |
| Chromium, Total | 3.53 | mg/kg | 23 | 5.81 | mg/kg | 22 | 4.87 | mg/kg | 21 |
| Cobalt, Total | 2.06 | mg/kg | 12 | 2.57 | mg/kg | 11 | 2.17 | mg/kg | 11 |
| Copper, Total | 3.19 | mg/kg | 2.3 | 6.71 | mg/kg | 2.2 | 4.86 | mg/kg | 2.1 |
| Iron, Total | 4720 | mg/kg | 3.5 | 6600 | mg/kg | 3.2 | 8490 | mg/kg | 3.2 |
| Lead, Total | 4.5 | mg/kg | 1.2 | 14.2 | mg/kg | 1.1 | 20.8 | mg/kg | 1.1 |
| Magnesium, Total | 1370 | mg/kg | 120 | 2240 | mg/kg | 110 | 1060 | mg/kg | 110 |
| Manganese, Total | 71.5 | mg/kg | 2.3 | 130 | mg/kg | 2.2 | 78.7 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.12 | | mg/kg | 0.11 | | mg/kg | 0.11 |
| Nickel, Total | 2.91 | mg/kg | 2.3 | 4.61 | mg/kg | 2.2 | 3.59 | mg/kg | 2.1 |
| Potassium, Total | 509 | mg/kg | 700 | 599 | mg/kg | 650 | 362 | mg/kg | 630 |
| Selenium, Total | 0.805 | mg/kg | 1.2 | 1.94 | mg/kg | 1.1 | 2.91 | mg/kg | 1.1 |
| Silver, Total | | mg/kg | 1.2 | | mg/kg | 1.1 | | mg/kg | 1.1 |
| Sodium, Total | 48 | mg/kg | 12 | 63 | mg/kg | 11 | 25.8 | mg/kg | 11 |
| Thallium, Total | | mg/kg | 0.35 | | mg/kg | 0.32 | | mg/kg | 0.32 |
| Vanadium, Total | 5.94 | mg/kg | 1.2 | 9.52 | mg/kg | 1.1 | 8.99 | mg/kg | 1.1 |
| Zinc, Total | 10.6 | mg/kg | 1.2 | 31.1 | mg/kg | 1.1 | 87.8 | mg/kg | 1.1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-P04 | | | PAFB-P05A (FD2) ¹ | | | PAFB-P05B (FD2) ¹ | | |
|------------------|----------|----------|----------|------------------------------|----------|------|------------------------------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 94 | weight % | RL | 94 | weight % | RL |
| Percent Solids | 95 | weight % | RL | 94 | weight % | RL | 94 | weight % | RL |
| Aluminum, Total | 2920 | mg/kg | 23 | 2590 | mg/kg | 23 | 2900 | mg/kg | 23 |
| Antimony, Total | | mg/kg | 1.1 | | mg/kg | 1.1 | | mg/kg | 1.1 |
| Arsenic, Total | 1.77 | mg/kg | 1.1 | 1.07 | mg/kg | 1.1 | 1.17 | mg/kg | 1.1 |
| Barium, Total | 14.5 | mg/kg | 1.1 | 49.4 | mg/kg | 1.1 | 57.7 | mg/kg | 1.1 |
| Beryllium, Total | 0.168 | mg/kg | 0.32 | 0.13 | mg/kg | 0.32 | 0.124 | mg/kg | 0.32 |
| Cadmium, Total | | mg/kg | 0.11 | 0.0996 | mg/kg | 0.11 | 0.105 | mg/kg | 0.11 |
| Calcium, Total | 5370 | mg/kg | 110 | 21000 | mg/kg | 110 | 18300 | mg/kg | 110 |
| Chromium, Total | 4.29 | mg/kg | 21 | 4.37 | mg/kg | 21 | 5.43 | mg/kg | 21 |
| Cobalt, Total | 2.14 | mg/kg | 11 | 1.81 | mg/kg | 11 | 1.78 | mg/kg | 11 |
| Copper, Total | 3.95 | mg/kg | 2.1 | 2.98 | mg/kg | 2.1 | 2.95 | mg/kg | 2.1 |
| Iron, Total | 5820 | mg/kg | 3.2 | 5000 | mg/kg | 3.2 | 4890 | mg/kg | 3.2 |
| Lead, Total | 5.89 | mg/kg | 1.1 | 19.6 | mg/kg | 1.1 | 18.8 | mg/kg | 1.1 |
| Magnesium, Total | 1670 | mg/kg | 110 | 3610 | mg/kg | 110 | 2660 | mg/kg | 110 |
| Manganese, Total | 84.5 | mg/kg | 2.1 | 136 | mg/kg | 2.1 | 106 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.11 | | mg/kg | 0.11 | | mg/kg | 0.11 |
| Nickel, Total | 3.56 | mg/kg | 2.1 | 5.17 | mg/kg | 2.1 | 3.35 | mg/kg | 2.1 |
| Potassium, Total | 452 | mg/kg | 630 | 490 | mg/kg | 640 | 528 | mg/kg | 640 |
| Selenium, Total | 0.711 | mg/kg | 1.1 | | mg/kg | 1.1 | 0.582 | mg/kg | 1.1 |
| Silver, Total | | mg/kg | 1.1 | 0.11 | mg/kg | 1.1 | | mg/kg | 1.1 |
| Sodium, Total | 34.5 | mg/kg | 11 | 49.3 | mg/kg | 11 | 49.7 | mg/kg | 11 |
| Thallium, Total | | mg/kg | 0.32 | | mg/kg | 0.32 | | mg/kg | 0.32 |
| Vanadium, Total | 7.22 | mg/kg | 1.1 | 6.82 | mg/kg | 1.1 | 7.07 | mg/kg | 1.1 |
| Zinc, Total | 15.6 | mg/kg | 1.1 | 14.8 | mg/kg | 1.1 | 16.1 | mg/kg | 1.1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-P06 | | | PAFB-P07 | | | PAFB-P08 | | |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | |
| Percent Solids | 91 | weight % | RL | 96 | weight % | RL | 96 | weight % | RL |
| Aluminum, Total | 3890 | mg/kg | 24 | 2020 | mg/kg | 23 | 1910 | mg/kg | 23 |
| Antimony, Total | 0.636 | mg/kg | 1.1 | | mg/kg | 1 | | mg/kg | 1 |
| Arsenic, Total | 1.97 | mg/kg | 1.1 | 1.32 | mg/kg | 1 | 1.3 | mg/kg | 1 |
| Barium, Total | 39.9 | mg/kg | 1.1 | 10.7 | mg/kg | 1 | 8.83 | mg/kg | 1 |
| Beryllium, Total | 0.167 | mg/kg | 0.33 | 0.117 | mg/kg | 0.31 | 0.133 | mg/kg | 0.31 |
| Cadmium, Total | 0.13 | mg/kg | 0.11 | | mg/kg | 0.1 | | mg/kg | 0.1 |
| Calcium, Total | 28900 | mg/kg | 110 | 28900 | mg/kg | 100 | 15900 | mg/kg | 100 |
| Chromium, Total | 6.84 | mg/kg | 22 | 2.88 | mg/kg | 21 | 2.82 | mg/kg | 21 |
| Cobalt, Total | 2.26 | mg/kg | 11 | 1.8 | mg/kg | 10 | 1.75 | mg/kg | 10 |
| Copper, Total | 6.47 | mg/kg | 2.2 | 2.96 | mg/kg | 2.1 | 2.68 | mg/kg | 2.1 |
| Iron, Total | 6110 | mg/kg | 3.3 | 4220 | mg/kg | 3.1 | 4300 | mg/kg | 3.1 |
| Lead, Total | 17.1 | mg/kg | 1.1 | 1.99 | mg/kg | 1 | 1.63 | mg/kg | 1 |
| Magnesium, Total | 2900 | mg/kg | 110 | 4900 | mg/kg | 100 | 7470 | mg/kg | 100 |
| Manganese, Total | 99.3 | mg/kg | 2.2 | 185 | mg/kg | 2.1 | 163 | mg/kg | 2.1 |
| Mercury, Total | 0.03 | mg/kg | 0.11 | | mg/kg | 0.1 | 0.023 | mg/kg | 0.1 |
| Nickel, Total | 4.47 | mg/kg | 2.2 | 2.83 | mg/kg | 2.1 | 2.58 | mg/kg | 2.1 |
| Potassium, Total | 511 | mg/kg | 660 | 566 | mg/kg | 630 | 564 | mg/kg | 630 |
| Selenium, Total | 0.896 | mg/kg | 1.1 | | mg/kg | 1 | | mg/kg | 1 |
| Silver, Total | | mg/kg | 1.1 | | mg/kg | 1 | | mg/kg | 1 |
| Sodium, Total | 50.7 | mg/kg | 11 | 47.8 | mg/kg | 10 | 39 | mg/kg | 10 |
| Thallium, Total | | mg/kg | 0.33 | | mg/kg | 0.31 | | mg/kg | 0.31 |
| Vanadium, Total | 11.9 | mg/kg | 1.1 | 4.34 | mg/kg | 1 | 4.5 | mg/kg | 1 |
| Zinc, Total | 28.8 | mg/kg | 1.1 | 8.32 | mg/kg | 1 | 7.44 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-S01 | | | PAFB-S02 | | | PAFB-S03 | | |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 |
| Percent Solids | 95 | weight % | RL | 96 | weight % | RL | 92 | weight % | RL |
| Aluminum, Total | 2860 | mg/kg | 23 | 2840 | mg/kg | 23 | 3710 | mg/kg | 24 |
| Antimony, Total | | mg/kg | 1.1 | | mg/kg | 1 | | mg/kg | 1.1 |
| Arsenic, Total | 1.52 | mg/kg | 1.1 | 1.05 | mg/kg | 1 | 1.72 | mg/kg | 1.1 |
| Barium, Total | 23.5 | mg/kg | 1.1 | 9.27 | mg/kg | 1 | 21.4 | mg/kg | 1.1 |
| Beryllium, Total | 0.133 | mg/kg | 0.32 | 0.134 | mg/kg | 0.31 | 0.173 | mg/kg | 0.33 |
| Cadmium, Total | 0.0749 | mg/kg | 0.11 | | mg/kg | 0.1 | 0.0865 | mg/kg | 0.11 |
| Calcium, Total | 29700 | mg/kg | 110 | 7220 | mg/kg | 100 | 17000 | mg/kg | 110 |
| Chromium, Total | 3.93 | mg/kg | 21 | 3.49 | mg/kg | 21 | 5.1 | mg/kg | 22 |
| Cobalt, Total | 2.32 | mg/kg | 11 | 1.76 | mg/kg | 10 | 2.3 | mg/kg | 11 |
| Copper, Total | 5.54 | mg/kg | 2.1 | 3.92 | mg/kg | 2.1 | 4.8 | mg/kg | 2.2 |
| Iron, Total | 5070 | mg/kg | 3.2 | 4310 | mg/kg | 3.1 | 5660 | mg/kg | 3.3 |
| Lead, Total | 16 | mg/kg | 1.1 | 11.1 | mg/kg | 1 | 21.7 | mg/kg | 1.1 |
| Magnesium, Total | 1820 | mg/kg | 110 | 1150 | mg/kg | 100 | 1530 | mg/kg | 110 |
| Manganese, Total | 304 | mg/kg | 2.1 | 65.6 | mg/kg | 2.1 | 90.9 | mg/kg | 2.2 |
| Mercury, Total | | mg/kg | 0.11 | 0.02 | mg/kg | 0.1 | 0.036 | mg/kg | 0.11 |
| Nickel, Total | 4.19 | mg/kg | 2.1 | 2.7 | mg/kg | 2.1 | 3.7 | mg/kg | 2.2 |
| Potassium, Total | 462 | mg/kg | 630 | 276 | mg/kg | 630 | 510 | mg/kg | 650 |
| Selenium, Total | 1.17 | mg/kg | 1.1 | 0.499 | mg/kg | 1 | 1.03 | mg/kg | 1.1 |
| Silver, Total | | mg/kg | 1.1 | | mg/kg | 1 | | mg/kg | 1.1 |
| Sodium, Total | 36.8 | mg/kg | 11 | 35.4 | mg/kg | 10 | 35.7 | mg/kg | 11 |
| Thallium, Total | | mg/kg | 0.32 | | mg/kg | 0.31 | | mg/kg | 0.33 |
| Vanadium, Total | 17.1 | mg/kg | 1.1 | 5.49 | mg/kg | 1 | 9.04 | mg/kg | 1.1 |
| Zinc, Total | 31.6 | mg/kg | 1.1 | 21.4 | mg/kg | 1 | 23.4 | mg/kg | 1.1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-S04 | | | PAFB-S05 | | | PAFB-S06 | | |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | |
| Percent Solids | 95 | weight % | RL | 94 | weight % | RL | 96 | weight % | RL |
| Aluminum, Total | 3220 | mg/kg | 23 | 3300 | mg/kg | 23 | 3400 | mg/kg | 23 |
| Antimony, Total | | mg/kg | 1.1 | | mg/kg | 1.1 | | mg/kg | 1 |
| Arsenic, Total | 1.64 | mg/kg | 1.1 | 1.44 | mg/kg | 1.1 | 1.44 | mg/kg | 1 |
| Barium, Total | 35.7 | mg/kg | 1.1 | 28.2 | mg/kg | 1.1 | 20.4 | mg/kg | 1 |
| Beryllium, Total | 0.162 | mg/kg | 0.32 | 0.174 | mg/kg | 0.32 | 0.139 | mg/kg | 0.31 |
| Cadmium, Total | 0.306 | mg/kg | 0.11 | 0.468 | mg/kg | 0.11 | 0.0527 | mg/kg | 0.1 |
| Calcium, Total | 3180 | mg/kg | 110 | 16800 | mg/kg | 110 | 16100 | mg/kg | 100 |
| Chromium, Total | 8.59 | mg/kg | 21 | 4.88 | mg/kg | 21 | 5.73 | mg/kg | 21 |
| Cobalt, Total | 1.84 | mg/kg | 11 | 2.57 | mg/kg | 11 | 2.3 | mg/kg | 10 |
| Copper, Total | 4.24 | mg/kg | 2.1 | 4.63 | mg/kg | 2.1 | 4.53 | mg/kg | 2.1 |
| Iron, Total | 5740 | mg/kg | 3.2 | 5990 | mg/kg | 3.2 | 5710 | mg/kg | 3.1 |
| Lead, Total | 35.9 | mg/kg | 1.1 | 10.6 | mg/kg | 1.1 | 7.49 | mg/kg | 1 |
| Magnesium, Total | 1210 | mg/kg | 110 | 3850 | mg/kg | 110 | 2420 | mg/kg | 100 |
| Manganese, Total | 71.8 | mg/kg | 2.1 | 172 | mg/kg | 2.1 | 96.9 | mg/kg | 2.1 |
| Mercury, Total | 0.039 | mg/kg | 0.11 | | mg/kg | 0.11 | | mg/kg | 0.1 |
| Nickel, Total | 4.8 | mg/kg | 2.1 | 4.19 | mg/kg | 2.1 | 3.97 | mg/kg | 2.1 |
| Potassium, Total | 246 | mg/kg | 630 | 600 | mg/kg | 640 | 645 | mg/kg | 630 |
| Selenium, Total | 0.646 | mg/kg | 1.1 | 0.705 | mg/kg | 1.1 | 0.575 | mg/kg | 1 |
| Silver, Total | 0.409 | mg/kg | 1.1 | | mg/kg | 1.1 | | mg/kg | 1 |
| Sodium, Total | 26.1 | mg/kg | 11 | 48.4 | mg/kg | 11 | 70.5 | mg/kg | 10 |
| Thallium, Total | | mg/kg | 0.32 | | mg/kg | 0.32 | | mg/kg | 0.31 |
| Vanadium, Total | 10.2 | mg/kg | 1.1 | 8.39 | mg/kg | 1.1 | 8.23 | mg/kg | 1 |
| Zinc, Total | 26.7 | mg/kg | 1.1 | 23.6 | mg/kg | 1.1 | 18.3 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-S07A (FD3) ¹ | | | PAFB-S07B (FD3) ¹ | | | PAFB-S08 | | |
|------------------|------------------------------|----------|------|------------------------------|----------|------|----------|----------|------|
| | 94 | weight % | RL | 90 | weight % | RL | 96 | weight % | RL |
| Percent Solids | | | | | | | | | |
| Aluminum, Total | 2840 | mg/kg | 23 | 3020 | mg/kg | 24 | 1250 | mg/kg | 23 |
| Antimony, Total | | mg/kg | 1.1 | | mg/kg | 1.1 | | mg/kg | 1 |
| Arsenic, Total | 1.04 | mg/kg | 1.1 | 1.09 | mg/kg | 1.1 | 0.833 | mg/kg | 1 |
| Barium, Total | 13.3 | mg/kg | 1.1 | 14.3 | mg/kg | 1.1 | 5.61 | mg/kg | 1 |
| Beryllium, Total | 0.138 | mg/kg | 0.32 | 0.162 | mg/kg | 0.33 | 0.0769 | mg/kg | 0.31 |
| Cadmium, Total | | mg/kg | 0.11 | | mg/kg | 0.11 | | mg/kg | 0.1 |
| Calcium, Total | 2290 | mg/kg | 110 | 3340 | mg/kg | 110 | 3630 | mg/kg | 100 |
| Chromium, Total | 4.04 | mg/kg | 21 | 3.88 | mg/kg | 22 | 1.68 | mg/kg | 21 |
| Cobalt, Total | 1.77 | mg/kg | 11 | 1.81 | mg/kg | 11 | 1.27 | mg/kg | 10 |
| Copper, Total | 2.98 | mg/kg | 2.1 | 3.08 | mg/kg | 2.2 | 1.42 | mg/kg | 2.1 |
| Iron, Total | 4860 | mg/kg | 3.2 | 4680 | mg/kg | 3.3 | 2970 | mg/kg | 3.1 |
| Lead, Total | 13.3 | mg/kg | 1.1 | 15.8 | mg/kg | 1.1 | 0.444 | mg/kg | 1 |
| Magnesium, Total | 1020 | mg/kg | 110 | 966 | mg/kg | 110 | 2130 | mg/kg | 100 |
| Manganese, Total | 61.5 | mg/kg | 2.1 | 63.1 | mg/kg | 2.2 | 71.4 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.11 | | mg/kg | 0.11 | | mg/kg | 0.1 |
| Nickel, Total | 3.32 | mg/kg | 2.1 | 3.68 | mg/kg | 2.2 | 2.13 | mg/kg | 2.1 |
| Potassium, Total | 362 | mg/kg | 640 | 382 | mg/kg | 670 | 247 | mg/kg | 630 |
| Selenium, Total | 0.574 | mg/kg | 1.1 | 0.683 | mg/kg | 1.1 | | mg/kg | 1 |
| Silver, Total | | mg/kg | 1.1 | 0.128 | mg/kg | 1.1 | | mg/kg | 1 |
| Sodium, Total | 26.4 | mg/kg | 11 | 40.8 | mg/kg | 11 | 26.5 | mg/kg | 10 |
| Thallium, Total | | mg/kg | 0.32 | | mg/kg | 0.33 | | mg/kg | 0.31 |
| Vanadium, Total | 11.4 | mg/kg | 1.1 | 11.3 | mg/kg | 1.1 | 2.71 | mg/kg | 1 |
| Zinc, Total | 25.3 | mg/kg | 1.1 | 24.1 | mg/kg | 1.1 | 6.14 | mg/kg | 1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| Collection Date | PAFB-S09 | | | PAFB-S10 | | | PAFB-S11 | | |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | 7-Dec-00 | |
| Percent Solids | 95 | weight % | RL | 95 | weight % | RL | 93 | weight % | RL |
| Aluminum, Total | 3670 | mg/kg | 23 | 3050 | mg/kg | 23 | 2860 | mg/kg | 24 |
| Antimony, Total | | mg/kg | 1.1 | | mg/kg | 1.1 | | mg/kg | 1.1 |
| Arsenic, Total | 1.75 | mg/kg | 1.1 | 1.48 | mg/kg | 1.1 | 1.83 | mg/kg | 1.1 |
| Barium, Total | 29.7 | mg/kg | 1.1 | 16.9 | mg/kg | 1.1 | 20.8 | mg/kg | 1.1 |
| Beryllium, Total | 0.172 | mg/kg | 0.32 | 0.162 | mg/kg | 0.32 | 0.137 | mg/kg | 0.32 |
| Cadmium, Total | 0.0863 | mg/kg | 0.11 | 0.0591 | mg/kg | 0.11 | 0.104 | mg/kg | 0.11 |
| Calcium, Total | 13500 | mg/kg | 110 | 2450 | mg/kg | 110 | 15100 | mg/kg | 110 |
| Chromium, Total | 5.56 | mg/kg | 21 | 4.53 | mg/kg | 21 | 7.3 | mg/kg | 22 |
| Cobalt, Total | 2.41 | mg/kg | 11 | 1.96 | mg/kg | 11 | 2.18 | mg/kg | 11 |
| Copper, Total | 8.79 | mg/kg | 2.1 | 3.27 | mg/kg | 2.1 | 4.26 | mg/kg | 2.2 |
| Iron, Total | 6650 | mg/kg | 3.2 | 6040 | mg/kg | 3.2 | 6250 | mg/kg | 3.2 |
| Lead, Total | 23.4 | mg/kg | 1.1 | 13.9 | mg/kg | 1.1 | 29.5 | mg/kg | 1.1 |
| Magnesium, Total | 3040 | mg/kg | 110 | 922 | mg/kg | 110 | 2120 | mg/kg | 110 |
| Manganese, Total | 138 | mg/kg | 2.1 | 65.8 | mg/kg | 2.1 | 87.6 | mg/kg | 2.2 |
| Mercury, Total | 0.022 | mg/kg | 0.11 | | mg/kg | 0.11 | 0.023 | mg/kg | 0.11 |
| Nickel, Total | 5.51 | mg/kg | 2.1 | 3.75 | mg/kg | 2.1 | 3.67 | mg/kg | 2.2 |
| Potassium, Total | 513 | mg/kg | 630 | 356 | mg/kg | 630 | 557 | mg/kg | 650 |
| Selenium, Total | 1.68 | mg/kg | 1.1 | 0.681 | mg/kg | 1.1 | 0.758 | mg/kg | 1.1 |
| Silver, Total | | mg/kg | 1.1 | | mg/kg | 1.1 | | mg/kg | 1.1 |
| Sodium, Total | 46.8 | mg/kg | 11 | 30.8 | mg/kg | 11 | 44.2 | mg/kg | 11 |
| Thallium, Total | | mg/kg | 0.32 | | mg/kg | 0.32 | | mg/kg | 0.32 |
| Vanadium, Total | 11.2 | mg/kg | 1.1 | 12.8 | mg/kg | 1.1 | 11.2 | mg/kg | 1.1 |
| Zinc, Total | 41.1 | mg/kg | 1.1 | 24.6 | mg/kg | 1.1 | 26.7 | mg/kg | 1.1 |

Table 1(METALS)
Analytical Results for Metals by SW 846 Methods

| PAFB-S12 | | | |
|------------------|----------|----------|--------|
| Collection Date | 7-Dec-00 | | |
| Percent Solids | 95 | weight % | RL |
| Aluminum, Total | 3020 | mg/kg | 23 |
| Antimony, Total | 0.613 | mg/kg | 1.1 F |
| Arsenic, Total | 1.69 | mg/kg | 1.1 |
| Barium, Total | 17.5 | mg/kg | 1.1 |
| Beryllium, Total | 0.176 | mg/kg | 0.32 F |
| Cadmium, Total | 0.227 | mg/kg | 0.11 |
| Calcium, Total | 8520 | mg/kg | 110 |
| Chromium, Total | 5.33 | mg/kg | 21 F |
| Cobalt, Total | 2.38 | mg/kg | 11 F |
| Copper, Total | 4.81 | mg/kg | 2.1 |
| Iron, Total | 7310 | mg/kg | 3.2 |
| Lead, Total | 7.31 | mg/kg | 1.1 |
| Magnesium, Total | 3080 | mg/kg | 110 |
| Manganese, Total | 149 | mg/kg | 2.1 |
| Mercury, Total | | mg/kg | 0.11 U |
| Nickel, Total | 3.87 | mg/kg | 2.1 |
| Potassium, Total | 558 | mg/kg | 630 F |
| Selenium, Total | 0.956 | mg/kg | 1.1 F |
| Silver, Total | | mg/kg | 1.1 U |
| Sodium, Total | 41.5 | mg/kg | 11 |
| Thallium, Total | | mg/kg | 0.32 U |
| Vanadium, Total | 8.54 | mg/kg | 1.1 |
| Zinc, Total | 17.4 | mg/kg | 1.1 |

Table 1
FOOTNOTES

8/10/01

Footnotes:

1) The following are field duplicate pairs:

FD1: PAFB-B09A & PAFB-B09B

FD2: PAFB-P05A & PAFB-P05B

FD3: PAFB-S07A & PAFB-S07B

J - Results are estimated and the data are valid for limited purposes. The results are qualitatively acceptable but quantitatively unreliable.

UJ - The reported quantitation limit is estimated because associated quality control criteria were not met.

B - Results are estimated because the compound was detected in an associated blank.

R - Reported value or quantitation limit is rejected. Resampling or reanalysis may be necessary to verify the presence or absence of the compound.

M - A matrix interference was present. Reported value or quantitation limit may be an estimate.

F - Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the limit of detection.

Table 2 (voa)
SUMMARY OF QUALIFIED VOLATILE RESULTS

3/28/01

| Field Sample ID | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ |
|-----------------|--------|-------------------------|------------------------|---|--------------------------|
| PAFB-B01 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-B02 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-B03 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-B04 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-B05 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-B06 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P01 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P02 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P03 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P04 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P05A | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P05B | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P06 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P07 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P08 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S01 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S02 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S03 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S04 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S05 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S06 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S07A | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S07B | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S08 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-S09 | 8260B | Bromomethane | ND | CCC > CL | R |
| PAFB-P01 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P02 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P03 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P04 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P05A | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P05B | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P06 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P07 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-P08 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-S01 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-S02 | 8260B | Chloromethane | ND | CCC > CL | R |
| PAFB-B01 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-B02 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-B03 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-B04 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-B05 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-B06 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P01 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P02 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P03 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P04 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P05A | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P05B | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P06 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P07 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-P08 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S01 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S02 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S03 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S04 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S05 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S06 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S07A | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S07B | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S08 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S09 | 8260B | Dichlorodifluoromethane | ND | CCC > CL | R |
| PAFB-S03 | 8260B | 1-Chlorohexane | ND | MS < CL | M |
| PAFB-S03 | 8260B | 1,2,3-Trichlorobenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | 1,2,4-Trichlorobenzene | ND | MS < CL | M |

Table 2 (voa)
SUMMARY OF QUALIFIED VOLATILE RESULTS

3/28/01

| Field Sample ID | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ |
|-----------------|--------|-------------------------|------------------------|---|--------------------------|
| PAFB-S03 | 8260B | 1,2-Dichlorobenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | 1,3-Dichlorobenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | 1,4-Dichlorobenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | Hexachlorobutadiene | ND | MS < CL | M |
| PAFB-S03 | 8260B | Naphthalene | ND | MS < CL | M |
| PAFB-S03 | 8260B | n-Butylbenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | p-Isopropyltoluene | ND | MS < CL | M |
| PAFB-S03 | 8260B | Propylbenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | sec-Butylbenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | tert-Butylbenzene | ND | MS < CL | M |
| PAFB-S03 | 8260B | Vinyl acetate | ND | MS < CL | M |
| PAFB-B01 | 8260B | 1,2,4-Trimethylbenzene | 0.000306 | Result < RL | F |
| PAFB-B02 | 8260B | 1,2,4-Trimethylbenzene | 0.000287 | Result < RL | F |
| PAFB-B03 | 8260B | 1,2,4-Trimethylbenzene | 0.000333 | Result < RL | F |
| PAFB-B04 | 8260B | 1,2,4-Trimethylbenzene | 0.000284 | Result < RL | F |
| PAFB-B05 | 8260B | 1,2,4-Trimethylbenzene | 0.00032 | Result < RL | F |
| PAFB-B06 | 8260B | 1,2,4-Trimethylbenzene | 0.000271 | Result < RL | F |
| PAFB-B07 | 8260B | 1,2,4-Trimethylbenzene | 0.000299 | Result < RL | F |
| PAFB-B08 | 8260B | 1,2,4-Trimethylbenzene | 0.000316 | Result < RL | F |
| PAFB-B09A | 8260B | 1,2,4-Trimethylbenzene | 0.000302 | Result < RL | F |
| PAFB-B10 | 8260B | 1,2,4-Trimethylbenzene | 0.000278 | Result < RL | F |
| PAFB-B11 | 8260B | 1,2,4-Trimethylbenzene | 0.000286 | Result < RL | F |
| PAFB-B12 | 8260B | 1,2,4-Trimethylbenzene | 0.000292 | Result < RL | F |
| PAFB-B13 | 8260B | 1,2,4-Trimethylbenzene | 0.00025 | Result < RL | F |
| PAFB-S03 | 8260B | 1,2,4-Trimethylbenzene | 0.000293 | Result < RL | F |
| PAFB-S04 | 8260B | 1,2,4-Trimethylbenzene | 0.000379 | Result < RL | F |
| PAFB-S05 | 8260B | 1,2,4-Trimethylbenzene | 0.000362 | Result < RL | F |
| PAFB-S07A | 8260B | 1,2,4-Trimethylbenzene | 0.000309 | Result < RL | F |
| PAFB-S07B | 8260B | 1,2,4-Trimethylbenzene | 0.0003 | Result < RL | F |
| PAFB-S08 | 8260B | 1,2,4-Trimethylbenzene | 0.000323 | Result < RL | F |
| PAFB-S09 | 8260B | 1,2,4-Trimethylbenzene | 0.000305 | Result < RL | F |
| PAFB-S10 | 8260B | 1,2,4-Trimethylbenzene | 0.000274 | Result < RL | F |
| PAFB-S11 | 8260B | 1,2,4-Trimethylbenzene | 0.000258 | Result < RL | F |
| PAFB-S12 | 8260B | 1,2,4-Trimethylbenzene | 0.000274 | Result < RL | F |
| PAFB-P05B | 8260B | Acetone | 0.00743 | Result < RL | F |
| PAFB-P01 | 8260B | Tetrachloroethene | 0.00193 | Result < RL | F |
| PAFB-P02 | 8260B | Tetrachloroethene | 0.00374 | Result < RL | F |
| PAFB-P03 | 8260B | Tetrachloroethene | 0.00289 | Result < RL | F |
| PAFB-P05A | 8260B | Tetrachloroethene | 0.00272 | Result < RL | F |
| PAFB-P05B | 8260B | Tetrachloroethene | 0.00154 | Result < RL | F |
| PAFB-P06 | 8260B | Tetrachloroethene | 0.00125 | Result < RL | F |
| PAFB-P07 | 8260B | Tetrachloroethene | 0.00143 | Result < RL | F |
| PAFB-S01 | 8260B | Tetrachloroethene | 0.000874 | Result < RL | F |
| PAFB-S03 | 8260B | Tetrachloroethene | 0.00063 | Result < RL | F |
| PAFB-S04 | 8260B | Tetrachloroethene | 0.000474 | Result < RL | F |
| PAFB-S07A | 8260B | Tetrachloroethene | 0.0012 | Result < RL | F |
| PAFB-S07B | 8260B | Tetrachloroethene | 0.000711 | Result < RL | F |
| ALL | 8260B | Dichlorodifluoromethane | ND | SSC > CL | R |

**Table 2 (svoa)
SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS**

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-------------------|--------|-----------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-P05B-RE | 8270C | 4-Nitroaniline | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-S05 | 8270C | Bis(2-Chloroisopropyl)ether | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-B01 | 8270C | Hexachlorocyclopentadiene | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-B05 | 8270C | Hexachlorocyclopentadiene | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-B06 | 8270C | Hexachlorocyclopentadiene | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-B08 | 8270C | Hexachlorocyclopentadiene | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-B11 | 8270C | Hexachlorocyclopentadiene | N/A | ND | CCC > CL | R | NO IMPACT |
| PAFB-S11 | 8270C | 4-Nitroaniline | N/A | ND | CCV > CL | R | NO IMPACT |
| PAFB-B04 | 8270C | Benzo (a) pyrene | 0.061 | ND | IS < CL | R | Accept |
| PAFB-P03 | 8270C | Benzo (a) pyrene | 0.061 | ND | IS < CL | R | Accept |
| PAFB-P04 | 8270C | Benzo (a) pyrene | 0.061 | 0.588 | IS < CL | R | Accept |
| PAFB-P05A | 8270C | Benzo (a) pyrene | 0.061 | ND | IS < CL | R | Accept |
| PAFB-P06 | 8270C | Benzo (a) pyrene | 0.061 | ND | IS < CL | R | Accept |
| PAFB-S01 | 8270C | Benzo (a) pyrene | 0.061 | ND | IS < CL | R | Accept |
| PAFB-S03 | 8270C | Benzo (a) pyrene | 0.061 | 0.168 | IS < CL | R | Accept |
| PAFB-S05 (5x DIL) | 8270C | Benzo (a) pyrene | 0.061 | 0.0575 | IS < CL | R | REJECT |
| PAFB-S07A | 8270C | Benzo (a) pyrene | 0.061 | 0.0531 | IS < CL | R | Accept |
| PAFB-S07B | 8270C | Benzo (a) pyrene | 0.061 | 0.357 | IS < CL | R | Accept |
| PAFB-S09 | 8270C | Benzo (a) pyrene | 0.061 | 1.04 | IS < CL | R | Accept |
| PAFB-B04 | 8270C | Benzo (b) fluoranthene | 1.1 | ND | IS < CL | R | Accept |
| PAFB-P03 | 8270C | Benzo (b) fluoranthene | 1.1 | ND | IS < CL | R | Accept |
| PAFB-P04 | 8270C | Benzo (b) fluoranthene | 1.1 | 0.691 | IS < CL | R | Accept |
| PAFB-P05A | 8270C | Benzo (b) fluoranthene | 1.1 | 0.0818 | IS < CL | R | Accept |
| PAFB-P06 | 8270C | Benzo (b) fluoranthene | 1.1 | 0.989 | IS < CL | R | Accept |
| PAFB-S01 | 8270C | Benzo (b) fluoranthene | 1.1 | ND | IS < CL | R | Accept |
| PAFB-S03 | 8270C | Benzo (b) fluoranthene | 1.1 | 0.214 | IS < CL | R | Accept |
| PAFB-S05 (5x DIL) | 8270C | Benzo (b) fluoranthene | 1.1 | 0.0764 | IS < CL | R | Accept |
| PAFB-S07A | 8270C | Benzo (b) fluoranthene | 1.1 | 0.0719 | IS < CL | R | REJECT |
| PAFB-S07B | 8270C | Benzo (b) fluoranthene | 1.1 | 0.394 | IS < CL | R | Accept |
| PAFB-S09 | 8270C | Benzo (b) fluoranthene | 1.1 | 1.29 | IS < CL | R | Accept |
| PAFB-B04 | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-P03 | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-P04 | 8270C | Benzo(ghi)perylene | 50 | 0.167 | IS < CL | R | Accept |
| PAFB-P05A | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-P06 | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-S01 | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-S03 | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-S05 (5x DIL) | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-S07A | 8270C | Benzo(ghi)perylene | 50 | ND | IS < CL | R | Accept |
| PAFB-S07B | 8270C | Benzo(ghi)perylene | 50 | 0.107 | IS < CL | R | Accept |
| PAFB-S09 | 8270C | Benzo(ghi)perylene | 50 | 0.251 | IS < CL | R | Accept |
| PAFB-B04 | 8270C | Benzo (k) fluoranthene | 1.1 | ND | IS < CL | R | Accept |
| PAFB-P03 | 8270C | Benzo (k) fluoranthene | 1.1 | ND | IS < CL | R | Accept |
| PAFB-P04 | 8270C | Benzo (k) fluoranthene | 1.1 | 0.533 | IS < CL | R | Accept |
| PAFB-P05A | 8270C | Benzo (k) fluoranthene | 1.1 | 0.727 | IS < CL | R | Accept |
| PAFB-P06 | 8270C | Benzo (k) fluoranthene | 1.1 | 0.651 | IS < CL | R | Accept |
| PAFB-S01 | 8270C | Benzo (k) fluoranthene | 1.1 | ND | IS < CL | R | Accept |
| PAFB-S03 | 8270C | Benzo (k) fluoranthene | 1.1 | 0.168 | IS < CL | R | Accept |
| PAFB-S05 (5x DIL) | 8270C | Benzo (k) fluoranthene | 1.1 | 0.0471 | IS < CL | R | REJECT |
| PAFB-S07A | 8270C | Benzo (k) fluoranthene | 1.1 | 0.052 | IS < CL | R | Accept |
| PAFB-S07B | 8270C | Benzo (k) fluoranthene | 1.1 | 0.373 | IS < CL | R | Accept |
| PAFB-S09 | 8270C | Benzo (k) fluoranthene | 1.1 | 0.83 | IS < CL | R | Accept |
| PAFB-B04 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-P03 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-P04 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-P05A | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-P06 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-S01 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-S03 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-S05 (5x DIL) | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-S07A | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-S07B | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |
| PAFB-S09 | 8270C | Dibenz (a,h) anthracene | 14 | ND | IS < CL | R | Accept |

Table 2 (svoa)
SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-------------------|--------|---------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-B04 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-P03 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-P04 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | 0.184 | IS < CL | R | Accept |
| PAFB-P05A | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-P06 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-S01 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-S03 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-S05 (5x DIL) | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | REJECT |
| PAFB-S07A | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | ND | IS < CL | R | Accept |
| PAFB-S07B | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | 0.113 | IS < CL | R | Accept |
| PAFB-S09 | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | 0.224 | IS < CL | R | Accept |
| PAFB-P01 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P02 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P03 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P04 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P05A | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P05B | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P06 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P07 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P08 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S01 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S02 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S03 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S04 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S05 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S06 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S07A | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S07B | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S08 | 8270C | 2-Chloronaphthalene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-B01 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B02 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B03 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B04 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B05 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B06 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B07 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B08 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B09A | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B09B | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B10 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B11 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B12 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-B13& | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-S09 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-S10 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-S11 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-S12 | 8270C | Benzoic acid | 2.7 | ND | LCS < CL | R | Accept |
| PAFB-P01 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | Accept |
| PAFB-P02 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | Accept |
| PAFB-P03 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P04 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P04 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P05A | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P05B | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P06 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P07 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-P08 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S01 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S02 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S03 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S04 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S05 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S06 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |

Table 2 (svoa)
SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-----------------|--------|---------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-S07A | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S07B | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S08 | 8270C | Hexachlorocyclopentadiene | N/A | ND | LCS < CL | R | NO IMPACT |
| PAFB-S08 | 8270C | 2 Chloronaphthalene | N/A | ND | MS < CL | M | NO IMPACT |
| PAFB-B01 | 8270C | Benzoic acid | 2.7 | ND | MS < CL | M | Accept |
| PAFB-S08 | 8270C | Hexachlorocyclopentadiene | N/A | ND | MS < CL | M | NO IMPACT |
| PAFB-S08 | 8270C | Naphthalene | 13 | ND | MS < CL | M | Accept |
| PAFB-S06 | 8270C | 1,2,4-Trichlorobenzene | N/A | 0.000302 | Result < RL | F | Accept |
| PAFB-B09B | 8270C | 3,3-Dichlorobenzidine | N/A | 0.0553 | Result < RL | F | NO IMPACT |
| PAFB-S09 | 8270C | 3,3-Dichlorobenzidine | N/A | 0.041 | Result < RL | F | NO IMPACT |
| PAFB-B09B | 8270C | Acenaphthene | 50 | 0.0571 | Result < RL | F | Accept |
| PAFB-P03 | 8270C | Acenaphthene | | 0.108 | Result < RL | F | |
| PAFB-P04 | 8270C | Acenaphthylene | | 0.097 | Result < RL | F | |
| PAFB-S02 | 8270C | Acenaphthylene | | 0.0376 | Result < RL | F | |
| PAFB-B09B | 8270C | Anthracene | 50 | 0.341 | Result < RL | F | Accept |
| PAFB-P03 | 8270C | Anthracene | | 0.666 | Result < RL | F | |
| PAFB-P04 | 8270C | Anthracene | | 0.129 | Result < RL | F | |
| PAFB-S02 | 8270C | Anthracene | | 0.0362 | Result < RL | F | |
| PAFB-S07B | 8270C | Anthracene | | 0.0798 | Result < RL | F | |
| PAFB-S09 | 8270C | Anthracene | | 0.103 | Result < RL | F | |
| PAFB-S09 | 8270C | Anthracene | | 0.11 | Result < RL | F | |
| PAFB-B02 | 8270C | Benzo(a)anthracene | 224 | 0.113 | Result < RL | F | Accept |
| PAFB-B04 | 8270C | Benzo(a)anthracene | | 0.0376 | Result < RL | F | |
| PAFB-B09A | 8270C | Benzo(a)anthracene | | 0.0569 | Result < RL | F | |
| PAFB-B13 | 8270C | Benzo(a)anthracene | | 0.0417 | Result < RL | F | |
| PAFB-P02 | 8270C | Benzo(a)anthracene | | 0.101 | Result < RL | F | |
| PAFB-P04 | 8270C | Benzo(a)anthracene | | 0.542 | Result < RL | F | |
| PAFB-P05A | 8270C | Benzo(a)anthracene | | 0.0516 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Benzo(a)anthracene | | 0.203 | Result < RL | F | |
| PAFB-P05B | 8270C | Benzo(a)anthracene | | 0.108 | Result < RL | F | |
| PAFB-P06 | 8270C | Benzo(a)anthracene | | 0.559 | Result < RL | F | |
| PAFB-P08 | 8270C | Benzo(a)anthracene | | 0.0372 | Result < RL | F | |
| PAFB-S01 | 8270C | Benzo(a)anthracene | | 0.241 | Result < RL | F | |
| PAFB-S02 | 8270C | Benzo(a)anthracene | | 0.164 | Result < RL | F | |
| PAFB-S03 | 8270C | Benzo(a)anthracene | | 0.144 | Result < RL | F | |
| PAFB-S04 | 8270C | Benzo(a)anthracene | | 0.0575 | Result < RL | F | |
| PAFB-S06 | 8270C | Benzo(a)anthracene | | 0.0494 | Result < RL | F | |
| PAFB-S07A | 8270C | Benzo(a)anthracene | | 0.0546 | Result < RL | F | |
| PAFB-S07B | 8270C | Benzo(a)anthracene | | 0.398 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(a)anthracene | | 1 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(a)anthracene | | 0.94 | Result < RL | F | |
| PAFB-S10 | 8270C | Benzo(a)anthracene | | 0.0413 | Result < RL | F | |
| PAFB-S11 | 8270C | Benzo(a)anthracene | | 0.137 | Result < RL | F | |
| PAFB-S12 | 8270C | Benzo(a)anthracene | | 0.059 | Result < RL | F | |
| PAFB-B02 | 8270C | Benzo(a)pyrene | 0.061 | 0.112 | Result < RL | F | Accept |
| PAFB-B04 | 8270C | Benzo(a)pyrene | | 0.0411 | Result < RL | F | |
| PAFB-B09A | 8270C | Benzo(a)pyrene | | 0.0504 | Result < RL | F | |
| PAFB-B09B | 8270C | Benzo(a)pyrene | | 0.546 | Result < RL | F | |
| PAFB-B12 | 8270C | Benzo(a)pyrene | | 0.0302 | Result < RL | F | |
| PAFB-B13 | 8270C | Benzo(a)pyrene | | 0.0496 | Result < RL | F | |
| PAFB-P02 | 8270C | Benzo(a)pyrene | | 0.121 | Result < RL | F | |
| PAFB-P04 | 8270C | Benzo(a)pyrene | | 0.588 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Benzo(a)pyrene | | 0.175 | Result < RL | F | |
| PAFB-P05B | 8270C | Benzo(a)pyrene | | 0.137 | Result < RL | F | |
| PAFB-P06 | 8270C | Benzo(a)pyrene | | 0.692 | Result < RL | F | |
| PAFB-P08 | 8270C | Benzo(a)pyrene | | 0.0367 | Result < RL | F | |
| PAFB-S02 | 8270C | Benzo(a)pyrene | | 0.234 | Result < RL | F | |
| PAFB-S03 | 8270C | Benzo(a)pyrene | | 0.168 | Result < RL | F | |
| PAFB-S04 | 8270C | Benzo(a)pyrene | | 0.0597 | Result < RL | F | |
| PAFB-S06 | 8270C | Benzo(a)pyrene | | 0.0581 | Result < RL | F | |
| PAFB-S07A | 8270C | Benzo(a)pyrene | | 0.0531 | Result < RL | F | |
| PAFB-S07B | 8270C | Benzo(a)pyrene | | 0.357 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(a)pyrene | | 1.05 | Result < RL | F | |

Table 2 (svoa)
SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

10/1/01

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-----------------|--------|----------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-S09 | 8270C | Benzo(a)pyrene | | 1.04 | Result < RL | F | |
| PAFB-S10 | 8270C | Benzo(a)pyrene | | 0.0432 | Result < RL | F | |
| PAFB-S11 | 8270C | Benzo(a)pyrene | | 0.133 | Result < RL | F | |
| PAFB-S12 | 8270C | Benzo(a)pyrene | | 0.0634 | Result < RL | F | |
| PAFB-B02 | 8270C | Benzo(b)fluoranthene | 1.1 | 0.129 | Result < RL | F | Accept |
| PAFB-B04 | 8270C | Benzo(b)fluoranthene | | 0.0478 | Result < RL | F | |
| PAFB-B09A | 8270C | Benzo(b)fluoranthene | | 0.0584 | Result < RL | F | |
| PAFB-B09B | 8270C | Benzo(b)fluoranthene | | 0.549 | Result < RL | F | |
| PAFB-B12 | 8270C | Benzo(b)fluoranthene | | 0.0353 | Result < RL | F | |
| PAFB-B13 | 8270C | Benzo(b)fluoranthene | | 0.062 | Result < RL | F | |
| PAFB-P02 | 8270C | Benzo(b)fluoranthene | | 0.139 | Result < RL | F | |
| PAFB-P04 | 8270C | Benzo(b)fluoranthene | | 0.691 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Benzo(b)fluoranthene | | 0.268 | Result < RL | F | |
| PAFB-P05B | 8270C | Benzo(b)fluoranthene | | 0.189 | Result < RL | F | |
| PAFB-P06 | 8270C | Benzo(b)fluoranthene | | 0.989 | Result < RL | F | |
| PAFB-P08 | 8270C | Benzo(b)fluoranthene | | 0.0437 | Result < RL | F | |
| PAFB-S02 | 8270C | Benzo(b)fluoranthene | | 0.211 | Result < RL | F | |
| PAFB-S03 | 8270C | Benzo(b)fluoranthene | | 0.214 | Result < RL | F | |
| PAFB-S04 | 8270C | Benzo(b)fluoranthene | | 0.0764 | Result < RL | F | |
| PAFB-S06 | 8270C | Benzo(b)fluoranthene | | 0.0765 | Result < RL | F | |
| PAFB-S07A | 8270C | Benzo(b)fluoranthene | | 0.0719 | Result < RL | F | |
| PAFB-S07B | 8270C | Benzo(b)fluoranthene | | 0.394 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(b)fluoranthene | | 1.39 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(b)fluoranthene | | 1.29 | Result < RL | F | |
| PAFB-S10 | 8270C | Benzo(b)fluoranthene | | 0.0578 | Result < RL | F | |
| PAFB-S11 | 8270C | Benzo(b)fluoranthene | | 0.171 | Result < RL | F | |
| PAFB-S12 | 8270C | Benzo(b)fluoranthene | | 0.0651 | Result < RL | F | |
| PAFB-B09A | 8270C | Benzo(g,h,i)perylene | 50 | 0.0333 | Result < RL | F | Accept |
| PAFB-P03 | 8270C | Benzo(g,h,i)perylene | | 0.545 | Result < RL | F | |
| PAFB-S12 | 8270C | Benzo(g,h,i)perylene | | 0.0307 | Result < RL | F | |
| PAFB-B09B | 8270C | Benzo(ghi)perylene | | 0.309 | Result < RL | F | |
| PAFB-P02 | 8270C | Benzo(ghi)perylene | | 0.0431 | Result < RL | F | |
| PAFB-P04 | 8270C | Benzo(ghi)perylene | | 0.167 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Benzo(ghi)perylene | | 0.0925 | Result < RL | F | |
| PAFB-S02 | 8270C | Benzo(ghi)perylene | | 0.093 | Result < RL | F | |
| PAFB-S07B | 8270C | Benzo(ghi)perylene | | 0.107 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(ghi)perylene | | 0.296 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(ghi)perylene | | 0.251 | Result < RL | F | |
| PAFB-B02 | 8270C | Benzo(k)fluoranthene | 1.1 | 0.107 | Result < RL | F | Accept |
| PAFB-B09A | 8270C | Benzo(k)fluoranthene | | 0.035 | Result < RL | F | |
| PAFB-B09B | 8270C | Benzo(k)fluoranthene | | 0.414 | Result < RL | F | |
| PAFB-P02 | 8270C | Benzo(k)fluoranthene | | 0.1 | Result < RL | F | |
| PAFB-P04 | 8270C | Benzo(k)fluoranthene | | 0.533 | Result < RL | F | |
| PAFB-P04 | 8270C | Benzo(k)fluoranthene | | 0.533 | Result < RL | F | |
| PAFB-P05A | 8270C | Benzo(k)fluoranthene | | 0.0727 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Benzo(k)fluoranthene | | 0.175 | Result < RL | F | |
| PAFB-P05B | 8270C | Benzo(k)fluoranthene | | 0.109 | Result < RL | F | |
| PAFB-P06 | 8270C | Benzo(k)fluoranthene | | 0.651 | Result < RL | F | |
| PAFB-S02 | 8270C | Benzo(k)fluoranthene | | 0.153 | Result < RL | F | |
| PAFB-S03 | 8270C | Benzo(k)fluoranthene | | 0.168 | Result < RL | F | |
| PAFB-S04 | 8270C | Benzo(k)fluoranthene | | 0.0471 | Result < RL | F | |
| PAFB-S06 | 8270C | Benzo(k)fluoranthene | | 0.0477 | Result < RL | F | |
| PAFB-S07A | 8270C | Benzo(k)fluoranthene | | 0.052 | Result < RL | F | |
| PAFB-S07B | 8270C | Benzo(k)fluoranthene | | 0.373 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(k)fluoranthene | | 0.964 | Result < RL | F | |
| PAFB-S09 | 8270C | Benzo(k)fluoranthene | | 0.83 | Result < RL | F | |
| PAFB-S11 | 8270C | Benzo(k)fluoranthene | | 0.148 | Result < RL | F | |
| PAFB-S12 | 8270C | Benzo(k)fluoranthene | | 0.0436 | Result < RL | F | |
| PAFB-B02 | 8270C | Bis(2-ethylhexyl)phthalate | 50 | 0.0621 | Result < RL | F | ACCEPT |
| PAFB-B09A | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0428 | Result < RL | F | |
| PAFB-B10 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.043 | Result < RL | F | |
| PAFB-B13 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.041 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0966 | Result < RL | F | |

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SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

10/1/01

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-----------------|--------|----------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-P05B | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0495 | Result < RL | F | |
| PAFB-P08 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0519 | Result < RL | F | |
| PAFB-S06 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0845 | Result < RL | F | |
| PAFB-S07A | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0591 | Result < RL | F | |
| PAFB-S07B | 8270C | Bis(2-ethylhexyl)phthalate | | 0.138 | Result < RL | F | |
| PAFB-S09 | 8270C | Bis(2-ethylhexyl)phthalate | | 1.21 | Result < RL | F | |
| PAFB-S09 | 8270C | Bis(2-ethylhexyl)phthalate | | 1.07 | Result < RL | F | |
| PAFB-S10 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0657 | Result < RL | F | |
| PAFB-S11 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0914 | Result < RL | F | |
| PAFB-S12 | 8270C | Bis(2-ethylhexyl)phthalate | | 0.0763 | Result < RL | F | |
| PAFB-S07B | 8270C | Butylbenzylphthalate | N/A | 0.117 | Result < RL | F | |
| PAFB-B02 | 8270C | Chrysene | 400 | 0.114 | Result < RL | F | ACCEPT |
| PAFB-B04 | 8270C | Chrysene | | 0.0389 | Result < RL | F | |
| PAFB-B09A | 8270C | Chrysene | | 0.0587 | Result < RL | F | |
| PAFB-B13 | 8270C | Chrysene | | 0.0456 | Result < RL | F | |
| PAFB-P02 | 8270C | Chrysene | | 0.109 | Result < RL | F | |
| PAFB-P04 | 8270C | Chrysene | | 0.559 | Result < RL | F | |
| PAFB-P05A | 8270C | Chrysene | | 0.0602 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Chrysene | | 0.21 | Result < RL | F | |
| PAFB-P05B | 8270C | Chrysene | | 0.145 | Result < RL | F | |
| PAFB-P06 | 8270C | Chrysene | | 0.653 | Result < RL | F | |
| PAFB-S01 | 8270C | Chrysene | | 0.257 | Result < RL | F | |
| PAFB-S02 | 8270C | Chrysene | | 0.169 | Result < RL | F | |
| PAFB-S03 | 8270C | Chrysene | | 0.181 | Result < RL | F | |
| PAFB-S04 | 8270C | Chrysene | | 0.0663 | Result < RL | F | |
| PAFB-S06 | 8270C | Chrysene | | 0.0563 | Result < RL | F | |
| PAFB-S07A | 8270C | Chrysene | | 0.0555 | Result < RL | F | |
| PAFB-S07B | 8270C | Chrysene | | 0.355 | Result < RL | F | |
| PAFB-S09 | 8270C | Chrysene | | 1.05 | Result < RL | F | |
| PAFB-S09 | 8270C | Chrysene | | 0.959 | Result < RL | F | |
| PAFB-S10 | 8270C | Chrysene | | 0.0447 | Result < RL | F | |
| PAFB-S11 | 8270C | Chrysene | | 0.15 | Result < RL | F | |
| PAFB-S12 | 8270C | Chrysene | | 0.0578 | Result < RL | F | |
| PAFB-B09B | 8270C | Dibenzofuran | 6.2 | 0.0723 | Result < RL | F | ACCEPT |
| PAFB-P03 | 8270C | Dibenzofuran | 6.2 | 0.119 | Result < RL | F | |
| PAFB-S02 | 8270C | Di-n-butylphthalate | N/A | 0.299 | Result < RL | F | |
| PAFB-B02 | 8270C | Fluoranthene | 50 | 0.195 | Result < RL | F | ACCEPT |
| PAFB-B04 | 8270C | Fluoranthene | | 0.0574 | Result < RL | F | |
| PAFB-B09A | 8270C | Fluoranthene | | 0.0727 | Result < RL | F | |
| PAFB-B12 | 8270C | Fluoranthene | | 0.0412 | Result < RL | F | |
| PAFB-B13 | 8270C | Fluoranthene | | 0.0709 | Result < RL | F | |
| PAFB-P02 | 8270C | Fluoranthene | | 0.199 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Fluoranthene | | 0.323 | Result < RL | F | |
| PAFB-P05B | 8270C | Fluoranthene | | 0.217 | Result < RL | F | |
| PAFB-P06 | 8270C | Fluoranthene | | 1.04 | Result < RL | F | |
| PAFB-P08 | 8270C | Fluoranthene | | 0.0676 | Result < RL | F | |
| PAFB-S01 | 8270C | Fluoranthene | | 0.48 | Result < RL | F | |
| PAFB-S02 | 8270C | Fluoranthene | | 0.318 | Result < RL | F | |
| PAFB-S03 | 8270C | Fluoranthene | | 0.307 | Result < RL | F | |
| PAFB-S04 | 8270C | Fluoranthene | | 0.15 | Result < RL | F | |
| PAFB-S06 | 8270C | Fluoranthene | | 0.0886 | Result < RL | F | |
| PAFB-S07A | 8270C | Fluoranthene | | 0.0993 | Result < RL | F | |
| PAFB-S07B | 8270C | Fluoranthene | | 0.711 | Result < RL | F | |
| PAFB-S10 | 8270C | Fluoranthene | | 0.0742 | Result < RL | F | |
| PAFB-S11 | 8270C | Fluoranthene | | 0.242 | Result < RL | F | |
| PAFB-S12 | 8270C | Fluoranthene | | 0.0965 | Result < RL | F | |
| PAFB-B09B | 8270C | Fluorene | 50 | 0.224 | Result < RL | F | ACCEPT |
| PAFB-P03 | 8270C | Fluorene | | 0.252 | Result < RL | F | |
| PAFB-P04 | 8270C | Fluorene | | 0.0546 | Result < RL | F | |
| PAFB-P05A | 8270C | Fluorene | | 0.0793 | Result < RL | F | |
| PAFB-B09B | 8270C | Indeno(1,2,3-cd)pyrene | 3.2 | 0.267 | Result < RL | F | ACCEPT |
| PAFB-P02 | 8270C | Indeno(1,2,3-cd)pyrene | | 0.0436 | Result < RL | F | |
| PAFB-P03 | 8270C | Indeno(1,2,3-cd)pyrene | | 0.559 | Result < RL | F | |

Table 2 (svoa)
SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-----------------|--------|------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-P04 | 8270C | Indeno(1,2,3-cd)pyrene | | 0.184 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Indeno(1,2,3-cd)pyrene | | 0.0864 | Result < RL | F | |
| PAFB-S02 | 8270C | Indeno(1,2,3-cd)pyrene | | 0.0977 | Result < RL | F | |
| PAFB-S07B | 8270C | Indeno(1,2,3-cd)pyrene | | 0.113 | Result < RL | F | |
| PAFB-S09 | 8270C | Indeno(1,2,3-cd)pyrene | | 0.273 | Result < RL | F | |
| PAFB-S09 | 8270C | Indeno(1,2,3-cd)pyrene | | 0.224 | Result < RL | F | |
| PAFB-B02 | 8270C | Phenanthrene | 50 | 0.101 | Result < RL | F | ACCEPT |
| PAFB-P02 | 8270C | Phenanthrene | | 0.0965 | Result < RL | F | |
| PAFB-P04 | 8270C | Phenanthrene | | 0.552 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Phenanthrene | | 0.164 | Result < RL | F | |
| PAFB-P05B | 8270C | Phenanthrene | | 0.105 | Result < RL | F | |
| PAFB-P06 | 8270C | Phenanthrene | | 0.377 | Result < RL | F | |
| PAFB-S01 | 8270C | Phenanthrene | | 0.374 | Result < RL | F | |
| PAFB-S02 | 8270C | Phenanthrene | | 0.135 | Result < RL | F | |
| PAFB-S03 | 8270C | Phenanthrene | | 0.18 | Result < RL | F | |
| PAFB-S04 | 8270C | Phenanthrene | | 0.0986 | Result < RL | F | |
| PAFB-S07B | 8270C | Phenanthrene | | 0.267 | Result < RL | F | |
| PAFB-S09 | 8270C | Phenanthrene | | 0.293 | Result < RL | F | |
| PAFB-S09 | 8270C | Phenanthrene | | 0.278 | Result < RL | F | |
| PAFB-S11 | 8270C | Phenanthrene | | 0.115 | Result < RL | F | |
| PAFB-S12 | 8270C | Phenanthrene | | 0.0371 | Result < RL | F | |
| PAFB-B02 | 8270C | Pyrene | 50 | 0.164 | Result < RL | F | ACCEPT |
| PAFB-B04 | 8270C | Pyrene | | 0.0465 | Result < RL | F | |
| PAFB-B09A | 8270C | Pyrene | | 0.0943 | Result < RL | F | |
| PAFB-B12 | 8270C | Pyrene | | 0.0393 | Result < RL | F | |
| PAFB-B13 | 8270C | Pyrene | | 0.0639 | Result < RL | F | |
| PAFB-P02 | 8270C | Pyrene | | 0.159 | Result < RL | F | |
| PAFB-P04 | 8270C | Pyrene | | 0.958 | Result < RL | F | |
| PAFB-P05A | 8270C | Pyrene | | 0.0938 | Result < RL | F | |
| PAFB-P05B-RE | 8270C | Pyrene | | 0.354 | Result < RL | F | |
| PAFB-P05B | 8270C | Pyrene | | 0.275 | Result < RL | F | |
| PAFB-P06 | 8270C | Pyrene | | 1.36 | Result < RL | F | |
| PAFB-P08 | 8270C | Pyrene | | 0.0494 | Result < RL | F | |
| PAFB-S01 | 8270C | Pyrene | | 0.58 | Result < RL | F | |
| PAFB-S02 | 8270C | Pyrene | | 0.245 | Result < RL | F | |
| PAFB-S03 | 8270C | Pyrene | | 0.353 | Result < RL | F | |
| PAFB-S04 | 8270C | Pyrene | | 0.109 | Result < RL | F | |
| PAFB-S06 | 8270C | Pyrene | | 0.0794 | Result < RL | F | |
| PAFB-S07A | 8270C | Pyrene | | 0.0855 | Result < RL | F | |
| PAFB-S07B | 8270C | Pyrene | | 0.74 | Result < RL | F | |
| PAFB-S10 | 8270C | Pyrene | | 0.0662 | Result < RL | F | |
| PAFB-S11 | 8270C | Pyrene | | 0.238 | Result < RL | F | |
| PAFB-S12 | 8270C | Pyrene | | 0.0889 | Result < RL | F | |
| PAFB-B01 | 8270C | 2-Nitrophenol | N/A | ND | SSC > CL | R | NO IMPACT |
| PAFB-B02 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B03 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B04 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B05 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B06 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B07 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B08 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B09A | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B09B | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B10 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B11 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B12 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-B13 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-S09 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-S10 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-S12 | 8270C | 2-Nitrophenol | | ND | SSC > CL | R | |
| PAFB-P01 | 8270C | 3,3-Dichlorobenzidine | N/A | ND | SSC > CL | R | NO IMPACT |
| PAFB-P02 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-P03 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |

Table 2 (svoa)
SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

10/1/01

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-----------------|--------|-----------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-P04 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-P05A | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-P05B | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-P06 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-P07 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-P08 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S01 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S02 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S03 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S04 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S05 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S06 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S07A | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S07B | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-S08 | 8270C | 3,3-Dichlorobenzidine | | ND | SSC > CL | R | |
| PAFB-B01 | 8270C | 3-Nitroaniline | N/A | ND | SSC > CL | R | NO IMPACT |
| PAFB-B02 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B03 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B04 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B05 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B06 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B07 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B08 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B09A | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B09B | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B10 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B11 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B12 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P01 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P02 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P03 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P04 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P05A | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P05B | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P06 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P07 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-P08 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S01 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S02 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S03 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S04 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S05 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S06 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S07A | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S07B | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S08 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S09 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S10 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-S12 | 8270C | 3-Nitroaniline | | ND | SSC > CL | R | |
| PAFB-B01 | 8270C | 4-Chloroaniline | N/A | ND | SSC > CL | R | NO IMPACT |
| PAFB-B02 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B03 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B04 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B05 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B06 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B07 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B08 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B09A | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B09B | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B10 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B11 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B12 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |

SUMMARY OF QUALIFIED SEMIVOLATILE RESULTS

| Field Sample ID | Method | Target Analyte | Cleanup Objective Conc. (mg/kg) | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ | Data Usability |
|-----------------|--------|-----------------------------|---------------------------------|------------------------|---|--------------------------|----------------|
| PAFB-B13 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P01 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P02 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P03 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P04 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P05A | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P05B | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P06 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P07 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-P08 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S01 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S02 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S03 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S04 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S05 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S06 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S07A | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S07B | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S08 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S09 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S10 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-S12 | 8270C | 4-Chloroaniline | | ND | SSC > CL | R | |
| PAFB-B04 | 8270C | Benzoic acid | 2.7 | ND | SSC > CL | R | ACCEPT |
| PAFB-B13 | 8270C | Benzoic acid | | ND | SSC > CL | R | |
| PAFB-P05B-RE | 8270C | Benzoic acid | | ND | SSC > CL | R | |
| PAFB-S09 | 8270C | Benzoic acid | | ND | SSC > CL | R | |
| PAFB-S11 | 8270C | Benzoic Acid | | ND | SSC > CL | R | |
| PAFB-B04 | 8270C | Di-n-octyl phthalate | N/A | ND | SSC > CL | R | NO IMPACT |
| PAFB-B13 | 8270C | Di-n-octyl phthalate | | ND | SSC > CL | R | |
| PAFB-P05B-RE | 8270C | Di-n-octyl phthalate | | ND | SSC > CL | R | |
| PAFB-S09 | 8270C | Di-n-octyl phthalate | | ND | SSC > CL | R | |
| PAFB-S11 | 8270C | Di-n-octylphthalate | | ND | SSC > CL | R | |
| PAFB-P05B-RE | 8270C | 2,4,5-Trichlorophenol | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | 2,4,6-Trichlorophenol | | ND | SURR < CL | R | |
| PAFB-P05B-RE | 8270C | 4,6-Dinitro-2-Methyl Phenol | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | 4-Bromophenyl phenyl ether | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | Anthracene | 50 | ND | SURR < CL | R | ACCEPT |
| PAFB-P05B-RE | 8270C | Di-n-butyl phthalate | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | Fluoranthene | 50 | 0.323 | SURR < CL | J | ACCEPT |
| PAFB-P05B-RE | 8270C | Hexachlorobenzene | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | n-Nitrosodiphenylamine | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | Pentachlorophenol | N/A | ND | SURR < CL | R | NO IMPACT |
| PAFB-P05B-RE | 8270C | Phenanthrene | 50 | 0.164 | SURR < CL | J | ACCEPT |

Table 2 (Metals)
SUMMARY OF QUALIFIED METALS RESULTS

3/28/01

| Field Sample ID | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ |
|-----------------|--------|----------------|------------------------|---|--------------------------|
| PAFB-B09A | 6010B | Aluminum | 3490 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Aluminum | 2650 | DUP RPD > CL | J |
| PAFB-B09A | 6010B | Barium | 19.1 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Barium | 10.7 | DUP RPD > CL | J |
| PAFB-B09A | 6010B | Calcium | 15900 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Calcium | 10200 | DUP RPD > CL | J |
| PAFB-S07A | 6010B | Calcium | 2290 | DUP RPD > CL | J |
| PAFB-S07B | 6010B | Calcium | 3340 | DUP RPD > CL | J |
| PAFB-B09A | 6010B | Iron | 7710 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Iron | 5360 | DUP RPD > CL | J |
| PAFB-B09A | 6010B | Lead | 7.13 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Lead | 3610 | DUP RPD > CL | J |
| PAFB-P05A | 6010B | Magnesium | 2660 | DUP RPD > CL | J |
| PAFB-P05B | 6010B | Magnesium | 2660 | DUP RPD > CL | J |
| PAFB-B09A | 6010B | Manganese | 249 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Manganese | 152 | DUP RPD > CL | J |
| PAFB-P05A | 6010B | Manganese | 136 | DUP RPD > CL | J |
| PAFB-P05B | 6010B | Manganese | 106 | DUP RPD > CL | J |
| PAFB-P05A | 6010B | Nickel | 5.17 | DUP RPD > CL | J |
| PAFB-P05B | 6010B | Nickel | 3.35 | DUP RPD > CL | J |
| PAFB-S07A | 6010B | Sodium | 26.4 | DUP RPD > CL | J |
| PAFB-S07B | 6010B | Sodium | 40.8 | DUP RPD > CL | J |
| PAFB-B09A | 6010B | Vanadium | 9.77 | DUP RPD > CL | J |
| PAFB-B09B | 6010B | Vanadium | 5.57 | DUP RPD > CL | J |
| PAFB-B02 | 6010B | Antimony | ND | MS < CL | M |
| PAFB-P01 | 6010B | Antimony | ND | MS < CL | M |
| PAFB-P01 | 6010B | Lead | 4.5 | MS < CL | M |
| PAFB-B02 | 6010B | Aluminum | 2940 | MS RPD > CL | M |
| PAFB-B02 | 6010B | Calcium | 15500 | MS RPD > CL | M |
| PAFB-B02 | 6010B | Iron | 6350 | MS RPD > CL | M |
| PAFB-B02 | 6010B | Magnesium | 5550 | MS RPD > CL | M |
| PAFB-B02 | 6010B | Manganese | 185 | MS RPD > CL | M |
| PAFB-B01 | 6010B | Antimony | 0.499 | Result < PQL | F |
| PAFB-B04 | 6010B | Antimony | 0.939 | Result < PQL | F |
| PAFB-B07 | 6010B | Antimony | 0.529 | Result < PQL | F |
| PAFB-B08 | 6010B | Antimony | 0.559 | Result < PQL | F |
| PAFB-B09A | 6010B | Antimony | 0.478 | Result < PQL | F |
| PAFB-B09B | 6010B | Antimony | 0.651 | Result < PQL | F |
| PAFB-B12 | 6010B | Antimony | 0.446 | Result < PQL | F |
| PAFB-P06 | 6010B | Antimony | 0.636 | Result < PQL | F |
| PAFB-S12 | 6010B | Antimony | 0.613 | Result < PQL | F |
| PAFB-B03 | 6010B | Arsenic | 0.974 | Result < PQL | F |
| PAFB-B06 | 6010B | Arsenic | 0.94 | Result < PQL | F |
| PAFB-B08 | 6010B | Arsenic | 0.94 | Result < PQL | F |
| PAFB-P01 | 6010B | Arsenic | 1.03 | Result < PQL | F |
| PAFB-S07A | 6010B | Arsenic | 1.04 | Result < PQL | F |
| PAFB-S07B | 6010B | Arsenic | 1.09 | Result < PQL | F |
| PAFB-S08 | 6010B | Arsenic | 0.833 | Result < PQL | F |
| PAFB-B01 | 6010B | Beryllium | 0.139 | Result < PQL | F |
| PAFB-B02 | 6010B | Beryllium | 0.179 | Result < PQL | F |
| PAFB-B03 | 6010B | Beryllium | 0.114 | Result < PQL | F |
| PAFB-B04 | 6010B | Beryllium | 0.193 | Result < PQL | F |
| PAFB-B05 | 6010B | Beryllium | 0.103 | Result < PQL | F |
| PAFB-B06 | 6010B | Beryllium | 0.128 | Result < PQL | F |
| PAFB-B07 | 6010B | Beryllium | 0.123 | Result < PQL | F |
| PAFB-B08 | 6010B | Beryllium | 0.102 | Result < PQL | F |
| PAFB-B09A | 6010B | Beryllium | 0.186 | Result < PQL | F |
| PAFB-B09B | 6010B | Beryllium | 0.148 | Result < PQL | F |
| PAFB-B10 | 6010B | Beryllium | 0.155 | Result < PQL | F |
| PAFB-B11 | 6010B | Beryllium | 0.184 | Result < PQL | F |
| PAFB-B12 | 6010B | Beryllium | 0.199 | Result < PQL | F |
| PAFB-B13 | 6010B | Beryllium | 0.203 | Result < PQL | F |
| PAFB-P01 | 6010B | Beryllium | 0.147 | Result < PQL | F |
| PAFB-P02 | 6010B | Beryllium | 0.185 | Result < PQL | F |
| PAFB-P03 | 6010B | Beryllium | 0.154 | Result < PQL | F |
| PAFB-P04 | 6010B | Beryllium | 0.172 | Result < PQL | F |

Table 2 (Metals)
SUMMARY OF QUALIFIED METALS RESULTS

| Field Sample ID | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ |
|-----------------|--------|----------------|------------------------|---|--------------------------|
| PAFB-P05A | 6010B | Beryllium | 0.13 | Result < PQL | F |
| PAFB-P05B | 6010B | Beryllium | 0.124 | Result < PQL | F |
| PAFB-P06 | 6010B | Beryllium | 0.167 | Result < PQL | F |
| PAFB-P07 | 6010B | Beryllium | 0.117 | Result < PQL | F |
| PAFB-P08 | 6010B | Beryllium | 0.133 | Result < PQL | F |
| PAFB-S01 | 6010B | Beryllium | 0.133 | Result < PQL | F |
| PAFB-S02 | 6010B | Beryllium | 0.134 | Result < PQL | F |
| PAFB-S03 | 6010B | Beryllium | 0.173 | Result < PQL | F |
| PAFB-S04 | 6010B | Beryllium | 0.162 | Result < PQL | F |
| PAFB-S05 | 6010B | Beryllium | 0.174 | Result < PQL | F |
| PAFB-S06 | 6010B | Beryllium | 0.139 | Result < PQL | F |
| PAFB-S07A | 6010B | Beryllium | 0.138 | Result < PQL | F |
| PAFB-S07B | 6010B | Beryllium | 0.162 | Result < PQL | F |
| PAFB-S08 | 6010B | Beryllium | 0.0769 | Result < PQL | F |
| PAFB-S09 | 6010B | Beryllium | 0.172 | Result < PQL | F |
| PAFB-S10 | 6010B | Beryllium | 0.162 | Result < PQL | F |
| PAFB-S11 | 6010B | Beryllium | 0.137 | Result < PQL | F |
| PAFB-S12 | 6010B | Beryllium | 0.176 | Result < PQL | F |
| PAFB-B07 | 6010B | Cadmium | 0.0438 | Result < PQL | F |
| PAFB-B09A | 6010B | Cadmium | 0.0377 | Result < PQL | F |
| PAFB-B10 | 6010B | Cadmium | 0.0546 | Result < PQL | F |
| PAFB-B12 | 6010B | Cadmium | 0.0459 | Result < PQL | F |
| PAFB-P02 | 6010B | Cadmium | 0.0897 | Result < PQL | F |
| PAFB-P05A | 6010B | Cadmium | 0.0996 | Result < PQL | F |
| PAFB-P05B | 6010B | Cadmium | 0.105 | Result < PQL | F |
| PAFB-S01 | 6010B | Cadmium | 0.0749 | Result < PQL | F |
| PAFB-S03 | 6010B | Cadmium | 0.0865 | Result < PQL | F |
| PAFB-S06 | 6010B | Cadmium | 0.0527 | Result < PQL | F |
| PAFB-S09 | 6010B | Cadmium | 0.0863 | Result < PQL | F |
| PAFB-S10 | 6010B | Cadmium | 0.0591 | Result < PQL | F |
| PAFB-S11 | 6010B | Cadmium | 0.104 | Result < PQL | F |
| PAFB-B01 | 6010B | Chromium | 7.19 | Result < PQL | F |
| PAFB-B03 | 6010B | Chromium | 3 | Result < PQL | F |
| PAFB-B04 | 6010B | Chromium | 4.87 | Result < PQL | F |
| PAFB-B05 | 6010B | Chromium | 3.22 | Result < PQL | F |
| PAFB-B06 | 6010B | Chromium | 3.81 | Result < PQL | F |
| PAFB-B07 | 6010B | Chromium | 3.67 | Result < PQL | F |
| PAFB-B08 | 6010B | Chromium | 3.29 | Result < PQL | F |
| PAFB-B09A | 6010B | Chromium | 4.6 | Result < PQL | F |
| PAFB-B09B | 6010B | Chromium | 3.45 | Result < PQL | F |
| PAFB-B10 | 6010B | Chromium | 3.97 | Result < PQL | F |
| PAFB-B11 | 6010B | Chromium | 3.44 | Result < PQL | F |
| PAFB-B12 | 6010B | Chromium | 4.31 | Result < PQL | F |
| PAFB-B13 | 6010B | Chromium | 6.54 | Result < PQL | F |
| PAFB-P01 | 6010B | Chromium | 3.53 | Result < PQL | F |
| PAFB-P02 | 6010B | Chromium | 5.81 | Result < PQL | F |
| PAFB-P03 | 6010B | Chromium | 4.87 | Result < PQL | F |
| PAFB-P04 | 6010B | Chromium | 4.39 | Result < PQL | F |
| PAFB-P05A | 6010B | Chromium | 4.37 | Result < PQL | F |
| PAFB-P05B | 6010B | Chromium | 5.43 | Result < PQL | F |
| PAFB-P06 | 6010B | Chromium | 6.84 | Result < PQL | F |
| PAFB-P07 | 6010B | Chromium | 2.88 | Result < PQL | F |
| PAFB-P08 | 6010B | Chromium | 2.82 | Result < PQL | F |
| PAFB-S01 | 6010B | Chromium | 3.93 | Result < PQL | F |
| PAFB-S02 | 6010B | Chromium | 3.49 | Result < PQL | F |
| PAFB-S03 | 6010B | Chromium | 5.1 | Result < PQL | F |
| PAFB-S04 | 6010B | Chromium | 8.59 | Result < PQL | F |
| PAFB-S05 | 6010B | Chromium | 4.88 | Result < PQL | F |
| PAFB-S06 | 6010B | Chromium | 5.73 | Result < PQL | F |
| PAFB-S07A | 6010B | Chromium | 4.04 | Result < PQL | F |
| PAFB-S07B | 6010B | Chromium | 3.88 | Result < PQL | F |
| PAFB-S08 | 6010B | Chromium | 1.68 | Result < PQL | F |
| PAFB-S09 | 6010B | Chromium | 5.56 | Result < PQL | F |
| PAFB-S10 | 6010B | Chromium | 4.53 | Result < PQL | F |
| PAFB-S11 | 6010B | Chromium | 7.3 | Result < PQL | F |
| PAFB-S12 | 6010B | Chromium | 5.33 | Result < PQL | F |

Table 2 (Metals)
SUMMARY OF QUALIFIED METALS RESULTS

3/28/01

| Field Sample ID | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ |
|-----------------|--------|----------------|------------------------|---|--------------------------|
| PAFB-B01 | 6010B | Cobalt | 2.43 | Result < PQL | F |
| PAFB-B03 | 6010B | Cobalt | 1.67 | Result < PQL | F |
| PAFB-B04 | 6010B | Cobalt | 2.4 | Result < PQL | F |
| PAFB-B05 | 6010B | Cobalt | 1.78 | Result < PQL | F |
| PAFB-B06 | 6010B | Cobalt | 2.09 | Result < PQL | F |
| PAFB-B07 | 6010B | Cobalt | 2.31 | Result < PQL | F |
| PAFB-B08 | 6010B | Cobalt | 1.88 | Result < PQL | F |
| PAFB-B09A | 6010B | Cobalt | 2.74 | Result < PQL | F |
| PAFB-B09B | 6010B | Cobalt | 2.03 | Result < PQL | F |
| PAFB-B10 | 6010B | Cobalt | 2.06 | Result < PQL | F |
| PAFB-B11 | 6010B | Cobalt | 2.29 | Result < PQL | F |
| PAFB-B12 | 6010B | Cobalt | 2.32 | Result < PQL | F |
| PAFB-B13 | 6010B | Cobalt | 2.49 | Result < PQL | F |
| PAFB-P01 | 6010B | Cobalt | 2.06 | Result < PQL | F |
| PAFB-P02 | 6010B | Cobalt | 2.57 | Result < PQL | F |
| PAFB-P03 | 6010B | Cobalt | 2.17 | Result < PQL | F |
| PAFB-P04 | 6010B | Cobalt | 2.18 | Result < PQL | F |
| PAFB-P05A | 6010B | Cobalt | 1.81 | Result < PQL | F |
| PAFB-P05B | 6010B | Cobalt | 1.78 | Result < PQL | F |
| PAFB-P06 | 6010B | Cobalt | 2.26 | Result < PQL | F |
| PAFB-P07 | 6010B | Cobalt | 1.8 | Result < PQL | F |
| PAFB-P08 | 6010B | Cobalt | 1.75 | Result < PQL | F |
| PAFB-S01 | 6010B | Cobalt | 2.32 | Result < PQL | F |
| PAFB-S02 | 6010B | Cobalt | 1.76 | Result < PQL | F |
| PAFB-S03 | 6010B | Cobalt | 2.3 | Result < PQL | F |
| PAFB-S04 | 6010B | Cobalt | 1.84 | Result < PQL | F |
| PAFB-S05 | 6010B | Cobalt | 2.57 | Result < PQL | F |
| PAFB-S06 | 6010B | Cobalt | 2.3 | Result < PQL | F |
| PAFB-S07A | 6010B | Cobalt | 1.77 | Result < PQL | F |
| PAFB-S07B | 6010B | Cobalt | 1.81 | Result < PQL | F |
| PAFB-S08 | 6010B | Cobalt | 1.27 | Result < PQL | F |
| PAFB-S09 | 6010B | Cobalt | 2.41 | Result < PQL | F |
| PAFB-S10 | 6010B | Cobalt | 1.96 | Result < PQL | F |
| PAFB-S11 | 6010B | Cobalt | 2.18 | Result < PQL | F |
| PAFB-S12 | 6010B | Cobalt | 2.38 | Result < PQL | F |
| PAFB-B03 | 6010B | Copper | 1.77 | Result < PQL | F |
| PAFB-B05 | 6010B | Copper | 1.61 | Result < PQL | F |
| PAFB-B08 | 6010B | Copper | 1.82 | Result < PQL | F |
| PAFB-S08 | 6010B | Copper | 1.42 | Result < PQL | F |
| PAFB-B05 | 6010B | Lead | 0.604 | Result < PQL | F |
| PAFB-B06 | 6010B | Lead | 0.781 | Result < PQL | F |
| PAFB-B08 | 6010B | Lead | 0.819 | Result < PQL | F |
| PAFB-B11 | 6010B | Lead | 0.791 | Result < PQL | F |
| PAFB-S08 | 6010B | Lead | 0.444 | Result < PQL | F |
| PAFB-B13 | 7471A | Mercury | 0.02 | Result < PQL | F |
| PAFB-P06 | 7471A | Mercury | 0.03 | Result < PQL | F |
| PAFB-P08 | 7471A | Mercury | 0.023 | Result < PQL | F |
| PAFB-S02 | 7471A | Mercury | 0.02 | Result < PQL | F |
| PAFB-S03 | 7471A | Mercury | 0.036 | Result < PQL | F |
| PAFB-S04 | 7471A | Mercury | 0.039 | Result < PQL | F |
| PAFB-S09 | 7471A | Mercury | 0.022 | Result < PQL | F |
| PAFB-S11 | 7471A | Mercury | 0.023 | Result < PQL | F |
| PAFB-B05 | 6010B | Nickel | 2.02 | Result < PQL | F |
| PAFB-B01 | 6010B | Potassium | 603 | Result < PQL | F |
| PAFB-B03 | 6010B | Potassium | 418 | Result < PQL | F |
| PAFB-B04 | 6010B | Potassium | 514 | Result < PQL | F |
| PAFB-B05 | 6010B | Potassium | 327 | Result < PQL | F |
| PAFB-B06 | 6010B | Potassium | 484 | Result < PQL | F |
| PAFB-B07 | 6010B | Potassium | 544 | Result < PQL | F |
| PAFB-B08 | 6010B | Potassium | 371 | Result < PQL | F |
| PAFB-B09B | 6010B | Potassium | 483 | Result < PQL | F |
| PAFB-B10 | 6010B | Potassium | 487 | Result < PQL | F |
| PAFB-B11 | 6010B | Potassium | 413 | Result < PQL | F |
| PAFB-B12 | 6010B | Potassium | 614 | Result < PQL | F |
| PAFB-P01 | 6010B | Potassium | 509 | Result < PQL | F |
| PAFB-P02 | 6010B | Potassium | 599 | Result < PQL | F |

Table 2 (Metals)
SUMMARY OF QUALIFIED METALS RESULTS

3/28/01

| Field Sample ID | Method | Target Analyte | Reported Conc. (mg/kg) | Reason for Qualification ⁽¹⁾ | Qualifier ⁽²⁾ |
|-----------------|--------|----------------|------------------------|---|--------------------------|
| PAFB-P03 | 6010B | Potassium | 362 | Result < PQL | F |
| PAFB-P04 | 6010B | Potassium | 461 | Result < PQL | F |
| PAFB-P05A | 6010B | Potassium | 490 | Result < PQL | F |
| PAFB-P05B | 6010B | Potassium | 528 | Result < PQL | F |
| PAFB-P06 | 6010B | Potassium | 511 | Result < PQL | F |
| PAFB-P07 | 6010B | Potassium | 566 | Result < PQL | F |
| PAFB-P08 | 6010B | Potassium | 564 | Result < PQL | F |
| PAFB-S01 | 6010B | Potassium | 462 | Result < PQL | F |
| PAFB-S02 | 6010B* | Potassium | 276 | Result < PQL | F |
| PAFB-S03 | 6010B | Potassium | 510 | Result < PQL | F |
| PAFB-S04 | 6010B | Potassium | 246 | Result < PQL | F |
| PAFB-S05 | 6010B | Potassium | 600 | Result < PQL | F |
| PAFB-S07A | 6010B | Potassium | 362 | Result < PQL | F |
| PAFB-S07B | 6010B | Potassium | 382 | Result < PQL | F |
| PAFB-S08 | 6010B | Potassium | 247 | Result < PQL | F |
| PAFB-S09 | 6010B | Potassium | 513 | Result < PQL | F |
| PAFB-S10 | 6010B | Potassium | 356 | Result < PQL | F |
| PAFB-S11 | 6010B | Potassium | 557 | Result < PQL | F |
| PAFB-S12 | 6010B | Potassium | 558 | Result < PQL | F |
| PAFB-B01 | 6010B | Selenium | 0.611 | Result < PQL | F |
| PAFB-B02 | 6010B | Selenium | 0.466 | Result < PQL | F |
| PAFB-B04 | 6010B | Selenium | 0.827 | Result < PQL | F |
| PAFB-B05 | 6010B | Selenium | 0.341 | Result < PQL | F |
| PAFB-B07 | 6010B | Selenium | 0.499 | Result < PQL | F |
| PAFB-B08 | 6010B | Selenium | 0.586 | Result < PQL | F |
| PAFB-B09A | 6010B | Selenium | 0.78 | Result < PQL | F |
| PAFB-B09B | 6010B | Selenium | 0.661 | Result < PQL | F |
| PAFB-B10 | 6010B | Selenium | 0.522 | Result < PQL | F |
| PAFB-B11 | 6010B | Selenium | 0.838 | Result < PQL | F |
| PAFB-B12 | 6010B | Selenium | 0.759 | Result < PQL | F |
| PAFB-P01 | 6010B | Selenium | 0.805 | Result < PQL | F |
| PAFB-P04 | 6010B | Selenium | 0.726 | Result < PQL | F |
| PAFB-P05B | 6010B | Selenium | 0.582 | Result < PQL | F |
| PAFB-P06 | 6010B | Selenium | 0.896 | Result < PQL | F |
| PAFB-S02 | 6010B | Selenium | 0.499 | Result < PQL | F |
| PAFB-S03 | 6010B | Selenium | 1.03 | Result < PQL | F |
| PAFB-S04 | 6010B | Selenium | 0.646 | Result < PQL | F |
| PAFB-S05 | 6010B | Selenium | 0.705 | Result < PQL | F |
| PAFB-S06 | 6010B | Selenium | 0.575 | Result < PQL | F |
| PAFB-S07A | 6010B | Selenium | 0.574 | Result < PQL | F |
| PAFB-S07B | 6010B | Selenium | 0.683 | Result < PQL | F |
| PAFB-S10 | 6010B | Selenium | 0.681 | Result < PQL | F |
| PAFB-S11 | 6010B | Selenium | 0.758 | Result < PQL | F |
| PAFB-S12 | 6010B | Selenium | 0.956 | Result < PQL | F |
| PAFB-B02 | 6010B | Silver | 0.163 | Result < PQL | F |
| PAFB-B07 | 6010B | Silver | 0.124 | Result < PQL | F |
| PAFB-P05A | 6010B | Silver | 0.11 | Result < PQL | F |
| PAFB-S04 | 6010B | Silver | 0.409 | Result < PQL | F |
| PAFB-S07B | 6010B | Silver | 0.128 | Result < PQL | F |
| PAFB-B04 | 7841 | Thallium | 0.165 | Result < PQL | F |
| PAFB-B06 | 7841 | Thallium | 0.163 | Result < PQL | F |
| PAFB-B07 | 7841 | Thallium | 0.177 | Result < PQL | F |
| PAFB-B09A | 7841 | Thallium | 0.179 | Result < PQL | F |
| PAFB-B09B | 7841 | Thallium | 0.18 | Result < PQL | F |

**Table 2
FOOTNOTES**

3/28/01

| (1) Reason for Qualification: | Data Impact | |
|-------------------------------|-------------|--|
| CCV > CL | Precision | continuing calibration verification %difference greater than the control limit |
| CCC > CL | Precision | continuing calibration check daily standard greater than control limit |
| IS < CL | Low Bias | Internal Standard Area less than lower control limit |
| MS > CL | High Bias | Matrix spike %Recovery above upper control limit |
| MS < CL | Low Bias | Matrix spike %Recovery below lower control limit |
| MS RPD > CL | Precision | Matrix spike/matrix spike duplicate RPD greater than control limit |
| LCS < CL | Low Bias | Laboratory control recovery below lower control limit |
| SSC > CL | Precision | Second source calibration standard %difference above control limit |
| Result < PQL | Precision | Result is above the MDL but below the RL and subject to poor precision |
| SURR < CL | Low Bias | Surrogate %Recovery below lower control limit. |

****Data Impact:**
 High Bias: The associated reported result may overestimate the true value.
 Low Bias: The associated reported result may underestimate the true value.
 Precision: The associated reported result is subject to relatively high variability.

N/A Not a COC analyte; result will not affect project decisions.
 Accept Data deemed acceptable based on reported concentrations and application of USEPA *Guidance for the Data Quality Objectives Process*; EPA/600/R-96/055; 8/2000

(2) Qualifier

- J -** Results are estimated and the data are valid for limited purposes. The results are qualitatively acceptable but quantitatively unreliable.
- UJ -** The reported quantitation limit is estimated because associated quality control criteria were not met.
- B -** Results are estimated because the compound was detected in an associated blank.
- R -** Reported value or quantitation limit is rejected. Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- M -** A matrix interference was present. Reported value or quantitation limit may be an estimate.
- F -** Results are qualitatively acceptable but quantitatively unreliable due to uncertainty in precision near the limit of detection.

Table 3
Summary of Field Duplicate Results

8/10/01

| Target Analytes | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RDL (mg/kg) | RPD or Difference | Criteria (% or mg/kg) ⁽¹⁾ | Qualifier |
|------------------------------------|-----------------------|--------------------------|-------------|-------------------|--------------------------------------|-----------|
| PAFB-B09A/ -B09B (site B09) | | | | | | |
| VOCs | | | | | | |
| 1,2,4-Trimethylbenzene | 0.000302 | <0.0073 | 0.0073 | 0.006998 | ± 0.0146 | |
| SVOCs | | | | | | |
| Acenaphthene | | 0.0571 | 0.7 | 0.6429 | ± 1.4 | |
| Anthracene | | 0.341 | 0.7 | 0.359 | ± 1.4 | |
| Benzo(a)anthracene | 0.0569 | 0.803 | 0.7 | 0.7461 | ± 1.4 | |
| Benzo(a)pyrene | 0.0504 | 0.546 | 0.7 | 0.4956 | ± 1.4 | |
| Benzo(b)fluoranthene | 0.0584 | 0.549 | 0.7 | 0.4906 | ± 1.4 | |
| Benzo(g,h,i)Perylene | 0.0333 | 0.309 | 0.7 | 0.2757 | ± 1.4 | |
| Benzo(k)fluoranthene | 0.035 | 0.414 | 0.7 | 0.379 | ± 1.4 | |
| Chrysene | 0.0587 | 0.802 | 0.7 | 0.7433 | ± 1.4 | |
| Dibenzofuran | | 0.0723 | 0.7 | 0.6277 | ± 1.4 | |
| Fluoranthene | 0.0727 | 1.98 | 0.7 | 1.9073 | ± 1.4 | |
| Fluorene | | 0.224 | 0.7 | 0.476 | ± 1.4 | |
| Indeno(1,2,3-cd)pyrene | | 0.267 | 0.7 | 0.433 | ± 1.4 | |
| Phenanthrene | | 2.35 | 0.7 | -1.65 | ± 1.4 | |
| Pyrene | 0.0943 | 1.75 | 0.7 | 1.6557 | ± 1.4 | |
| bis(2-Ethylhexyl)phthalate | 0.0428 | | 0.7 | 0.6572 | ± 1.4 | |
| METALS | | | | | | |
| Aluminum, Total | 3490 | 2650 | 23 | -27.36% | ≤ 20% | J |
| Antimony, Total | 0.478 | 0.651 | 1.1 | 0.173 | + 2.2 | |
| Arsenic, Total | 1.71 | 1.17 | 1.1 | -0.540 | + 2.2 | |
| Barium, Total | 19.1 | 10.7 | 1.1 | -56.38% | ≤ 20% | J |
| Beryllium, Total | 0.186 | 0.148 | 0.32 | -0.038 | + 0.64 | |
| Cadmium, Total | 0.0377 | | 0.11 | -0.038 | + 0.22 | |
| Calcium, Total | 15900 | 10200 | 110 | -43.68% | ≤ 20% | J |
| Chromium, Total | 4.6 | 3.45 | 21 | -1.150 | + 42 | |
| Cobalt, Total | 2.74 | 2.03 | 11 | -0.710 | + 22 | |
| Copper, Total | 3.56 | 2.63 | 2.1 | -0.930 | + 4.2 | |
| Iron, Total | 7710 | 5360 | 3.2 | -35.96% | ≤ 20% | J |
| Lead, Total | 7.13 | 2.64 | 1.1 | -4.490 | + 2.2 | J |
| Magnesium, Total | 4860 | 4990 | 110 | 2.64% | ≤ 20% | |
| Manganese, Total | 249 | 152 | 2.1 | -48.38% | ≤ 20% | J |
| Nickel, Total | 3.7 | 3.26 | 2.1 | -0.440 | + 4.2 | |
| Potassium, Total | 641 | 483 | 630 | -158 | + 1220 | J |
| Selenium, Total | 0.78 | 0.661 | 1.1 | -0.119 | + 2.2 | |
| Sodium, Total | 40.4 | 47.6 | 11 | 7.200 | + 22 | |
| Thallium, Total | 0.179 | 0.18 | 0.32 | 0.001 | + 0.64 | |
| Vanadium, Total | 9.77 | 5.57 | 1.1 | -4.2 | + 2.2 | J |
| Zinc, Total | 14 | 18.4 | 1.1 | 27.16% | ≤ 20% | J |

Table 3
Summary of Field Duplicate Results

8/10/01

| Target Analytes | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RDL (mg/kg) | RPD or Difference | Criteria (% or mg/kg) ⁽¹⁾ | Qualifier |
|------------------------------------|-----------------------|--------------------------|-------------|-------------------|--------------------------------------|-----------|
| PAFB-P05A/ -P05B (site P05) | | | | | | |
| VOCs | | | | | | |
| Tetrachloroethene | 0.00272 | 0.00154 | 0.0074 | -0.00118 | +0.0148 | |
| SVOCs | | | | | | |
| Benzo(a)anthracene | 0.0516 | 0.203 | 0.7 | 0.1514 | + 1.4 | |
| Benzo(a)pyrene | | 0.175 | 0.7 | 0.525 | + 1.4 | |
| Benzo(b)fluoranthene | 0.0818 | 0.268 | 0.7 | 0.1862 | + 1.4 | |
| Benzo(g,h,i)Perylene | | 0.0925 | 0.7 | 0.6075 | + 1.4 | |
| Benzo(k)fluoranthene | 0.0727 | 0.175 | 0.7 | 0.1023 | + 1.4 | |
| Chrysene | 0.0602 | 0.21 | 0.7 | 0.1498 | + 1.4 | |
| Fluoranthene | 0.0793 | 0.323 | 0.7 | 0.2437 | + 1.4 | |
| Indeno(1,2,3-cd)pyrene | | 0.0864 | 0.7 | 0.6136 | + 1.4 | |
| Phenanthrene | | 0.164 | 0.7 | 0.536 | + 1.4 | |
| Pyrene | 0.0938 | 0.354 | 0.7 | 0.2602 | + 1.4 | |
| bis(2-Ethylhexyl)phthalate | 0.0516 | 0.0966 | 0.7 | 0.045 | + 1.4 | |
| METALS | | | | | | |
| Aluminum, Total | 2590 | 2900 | 23 | 11.29% | ≤ 20% | |
| Arsenic, Total | 1.07 | 1.17 | 1.1 | 0.1 | + 2.2 | |
| Barium, Total | 49.4 | 57.7 | 1.1 | 15.50% | ≤ 20% | |
| Beryllium, Total | 0.13 | 0.124 | 0.32 | -0.006 | + 2.2 | |
| Cadmium, Total | 0.0996 | 0.105 | 0.11 | 0.0054 | + 2.2 | |
| Calcium, Total | 21000 | 18300 | 110 | -13.74% | ≤ 20% | |
| Chromium, Total | 4.37 | 5.43 | 21 | 1.06 | + 42 | |
| Cobalt, Total | 1.81 | 1.78 | 11 | -1.67% | ≤ 20% | |
| Copper, Total | 2.98 | 2.95 | 2.1 | -0.03 | + 4.2 | |
| Iron, Total | 5000 | 4890 | 3.2 | -2.22% | ≤ 20% | |
| Lead, Total | 19.6 | 18.8 | 1.1 | -4.17% | ≤ 20% | |
| Magnesium, Total | 3610 | 2660 | 110 | -30.30% | ≤ 20% | J |
| Manganese, Total | 136 | 106 | 2.1 | -24.79% | ≤ 20% | J |
| Nickel, Total | 5.17 | 3.35 | 2.1 | -1.82 | + 4.2 | |
| Potassium, Total | 490 | 528 | 640 | 7.47% | ≤ 20% | |
| Selenium, Total | | 0.582 | 1.1 | 0.52 | + 2.2 | |
| Silver, Total | 0.11 | < 1.1 | 1.1 | 0.99 | + 2.2 | |
| Sodium, Total | 49.3 | 49.7 | 11 | 0.40 | + 22 | |
| Vanadium, Total | 6.82 | 7.07 | 1.1 | 3.60% | ≤ 20% | |
| Zinc, Total | 14.8 | 16.1 | 1.1 | 8.41% | ≤ 20% | |

Table 3
Summary of Field Duplicate Results

8/10/01

| Target Analytes | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RDL (mg/kg) | RPD or Difference | Criteria (% or mg/kg) ⁽¹⁾ | Qualifier |
|------------------------------------|-----------------------|--------------------------|-------------|-------------------|--------------------------------------|-----------|
| PAFB-S07A/ -S07B (site S07) | | | | | | |
| VOCs | | | | | | |
| Tetrachloroethene | 0.0012 | 0.000711 | 0.0074 | 0.0067 | + 0.0148 | |
| 1,2,4-Trimethylbenzene | 0.000309 | 0.0003 | 0.0074 | 0.0071 | + 0.0148 | |
| SVOCs | | | | | | |
| Anthracene | < 0.7 | 0.0798 | 0.7 | 0.6202 | ± 1.4 | |
| Benzo(a)anthracene | 0.0546 | 0.398 | 0.7 | 0.3434 | ± 1.4 | |
| Benzo(a)pyrene | 0.0531 | 0.357 | 0.7 | 0.3039 | ± 1.4 | |
| Benzo(b)fluoranthene | 0.0719 | 0.394 | 0.7 | 0.3221 | ± 1.4 | |
| Benzo(g,h,i)Perylene | <0.7 | 0.107 | 0.7 | 0.593 | ± 1.4 | |
| Benzo(k)fluoranthene | 0.052 | 0.373 | 0.7 | 0.321 | ± 1.4 | |
| Butylbenzylphthalate | <0.7 | 0.117 | 0.7 | 0.583 | ± 1.4 | |
| Chrysene | 0.0555 | 0.355 | 0.7 | 0.2995 | ± 1.4 | |
| Fluoranthene | 0.0993 | 0.711 | 0.7 | 0.6117 | ± 1.4 | |
| Indeno(1,2,3-cd)pyrene | <0.7 | 0.113 | 0.7 | 0.587 | ± 1.4 | |
| Phenanthrene | <0.7 | 0.267 | 0.7 | 0.433 | ± 1.4 | |
| Pyrene | 0.0855 | 0.74 | 0.7 | 0.6545 | ± 1.4 | |
| bis(2-Ethylhexyl)phthalate | 0.0591 | 0.138 | 0.7 | 0.0789 | ± 1.4 | |
| METALS | | | | | | |
| Aluminum, Total | 2840 | 3020 | 23 | 6.14% | ≤ 20% | |
| Arsenic, Total | 1.04 | 1.09 | 1.1 | 0.05 | ± 2.2 | |
| Barium, Total | 13.3 | 14.3 | 1.1 | 7.25% | ≤ 20% | |
| Beryllium, Total | 0.138 | 0.162 | 0.32 | 0.02 | ± 2.2 | |
| Calcium, Total | 2290 | 3340 | 110 | 37.30% | ≤ 20% | J |
| Chromium, Total | 4.04 | 3.88 | 21 | -0.16 | ± 42 | |
| Cobalt, Total | 1.77 | 1.81 | 11 | 2.23% | ≤ 20% | |
| Copper, Total | 2.98 | 3.08 | 2.1 | 0.10 | ± 4.2 | |
| Iron, Total | 4860 | 4680 | 3.2 | -3.77% | ≤ 20% | |
| Lead, Total | 13.3 | 15.8 | 1.1 | 17.18% | ≤ 20% | |
| Magnesium, Total | 1020 | 966 | 110 | -5.44% | ≤ 20% | |
| Manganese, Total | 61.5 | 63.1 | 2.1 | 2.57% | ≤ 20% | |
| Nickel, Total | 3.32 | 3.68 | 2.1 | 0.36 | ± 4.2 | |
| Potassium, Total | 362 | 382 | 640 | 5.38% | ≤ 20% | |
| Selenium, Total | 0.574 | 0.683 | 1.1 | 0.11 | ± 2.2 | |
| Silver, Total | <1.1 | 0.128 | 1.1 | 0.972 | ± 2.2 | |
| Sodium, Total | 26.4 | 40.8 | 11 | 14.40 | ± 22 | |
| Vanadium, Total | 11.4 | 11.3 | 1.1 | -0.88% | ≤ 20% | |
| Zinc, Total | 25.3 | 24.1 | 1.1 | -4.86% | ≤ 20% | |

Footnotes:

(1) Results greater than 5 x RDL are evaluated against matrix spike RPD criteria, otherwise criteria of ± 2 x RDL were applied.

APPENDIX D

DATA ANALYSIS

Confirmation Samples for Metal Analysis -- Statistical Variability

Although the selenium value of 2.0 mg/kg is listed in NYSDEC TAGM 4046 Appendix A, Table 4, (column 5) as the recommended cleanup objective (RCO), Appendix A, Table 4 (column 2) also reports a native soil range 0 to 3.9 mg/kg. Native background metal constituent concentrations can vary significantly depending upon the soil type and its heterogeneity. The silt and clay content of the soil affect the soil cation exchange capacity and resultant metal concentration. In addition, soil organic content also impacts the concentration of metals in soils.

There are numerous components that contribute to variability in metals results in soil samples. The heterogeneity of the soil matrix itself, variability in field sampling procedures, variability in laboratory subsampling procedures and analytical variability all contribute to the reproducibility of the results. Data provided in the analytical method used (SW846 6010B) indicates variability of over 20% for the analysis of Selenium in soil performance evaluation (PE) samples that by design are extremely homogeneous. The precision for the analysis of PE samples therefore can be attributed to analytical variability. Technical guidance provided in the National Functional Guidelines for Inorganic Review (EPA-540/R-93-013) indicate that laboratory duplicates/splits can be expected to have an RPD (relative percent difference) of up to 35%. This greater variability can be attributed to error introduced as a result of subsampling techniques, sample matrix heterogeneity and analytical variability. Variability in laboratory results from samples that are not homogeneous can be expected to be greater than that associated with PE samples, with additional error introduced as a result of the heterogeneous distributions of metals in the area where the samples were collected in the field. As only a few grams of material are required for analysis, the introduction of error/variability due to subsampling of the sample jar is not unexpected.

In summary, the aforementioned analytical variability suggests that the elevated levels of selenium present in this report for the confirmation samples and soil stockpiles can be considered equivalent to native background levels are within acceptable tolerance limits of the 2 mg/kg RCO. A similar argument can be made for zinc.

Calcium (Ca) and Magnesium (Mg) Exceedences

Ca and Mg are classified as secondary nutrients in soil, which act as beneficial soil stabilizers and enhance pH buffer capacity (i.e., protection from acid rain). They are common to the soils surrounding Plattsburgh, NY. The elements are not part of EPA's RCRA list of toxic or priority pollutants metals nor do the analytes have any TCLP criteria.

Ca and Mg do not have any primary drinking water standards, but for aesthetic/nuisance purposes (water hardness and scaling) have a secondary standard not related to human health.

Water quality data from a downgradient C&D Landfill monitoring well (MW-033-002; groundwater at 10 feet below the ground surface) had total Ca and total Mg concentrations of 51 mg/l and 17.5 mg/l, respectively, in the most recent sampling event. Background Ca and Mg concentrations reported for the area in the URS, *January 1996 Background Surface Soil and Groundwater Survey*, showed an average Ca and Mg value of 99.9 mg/l and 39.9 mg/l, respectively, with a 95% upper tolerance limit of 175 mg/l and 80.6 mg/l, respectively. The above-referenced downgradient concentrations are about half the background average. Therefore, the elevated levels of Ca and Mg found in the C&D Landfill bottom soils and soil stockpiles did not appear to impact water quality immediately downgradient of the landfill.

Characterization Samples for Metal analysis -- Statistical Variability

A soil stockpile (SP-14) at the Stump Dump Landfill was sampled in May and again in June to assess the variability in constituent concentrations, specifically for selenium and zinc. The composite sample collected on May 7, 2001 was rerun for selenium and zinc in June. Three additional samples were collected on June 23, 2001, a grab sample (14B) and a composite sample that was thoroughly mixed in a stainless steel bowl and split into two samples (14A and 14C). The stockpiles themselves were produced from localized fill areas and are thoroughly mixed as a result of the soil screening process. After the 3 samples collected on June 23rd were analyzed, the laboratory was requested to re-analyze the sample with the highest selenium value (14C) and prepare and analyze the sample 7 times to establish the heterogeneity of the sample material itself. The laboratory thoroughly homogenized the contents of the sample jar for sample 14C prior to removing 7 aliquots for sample analysis. The results are as follows:

| Sample | Sampling Date | Type | Selenium * mg/kg | Zinc* mg/kg |
|----------------|---------------|------------------------|---------------------|----------------|
| SP-14 | 5/7 | 4-pt composite | 12.3 | 319 |
| SP-14 (rerun) | 5/7 | 4-pt composite | 2.82 | 59 |
| SP-14A | 6/23 | 4-pt composite (split) | 2.38 | 33.6 |
| SP-14B | 6/23 | Grab | 2.86 | 42.0 |
| SP-14C | 6/23 | 4-pt composite (split) | 8.53 | 215 |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 2.45 | NA |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 1.36 | NA |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 1.13 | NA |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 1.12 | NA |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 0.814 | NA |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 2.48 | NA |
| SP-14C (rerun) | 6/23 | 4-pt composite (split) | 0.964 | NA |

* NYSDEC TAGM RCO or Soil Background level: Selenium -- 2.0 mg/kg; Zinc -- 63.4 mg/kg

NA: Not Analyzed

The analysis demonstrates a wide variation in sample results for soil stockpile samples; whereby a single analysis of a sample may exceed the RCO, but the same sample when rerun can statistically be expected to also be below the RCO value. Additionally, the grab sample results did not differ significantly from the composite samples. For example, sample SP-14C showed a selenium variation of 0.814 to 8.53 mg/kg and a combined average from the eight analytical tests of 2.36 mg/kg. Excluding the largest and lowest value as an anomaly, the average is lowered to 1.58 mg/kg. The %RSD for the six replicates is 49%, which corresponds to a 95% confidence interval of ND – 3.2 mg/kg.

In summary, the analytical variability of the data shown above indicates that the elevated levels of selenium present in this report for the confirmation samples and soil stockpiles can be considered equivalent to native background levels and are statistically below the suggested RCO of 2 mg/kg.

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Shipper No. 5A-175

Carrier No. _____

Page 1 of 1

MC Environmental Services, Inc.
(Name of carrier) (SCAC)

Date 11/28/01

Section on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Consignee CWM Chemical Services
1550 Balmer Rd
Model City State NY Zip Code 14107

FROM: Shipper AFBCA/DA Plattsburgh
Street 22 US Suite 2200
City Plattsburgh State NY Zip Code 12903
24 hr. Emergency Contact Tel. No. (518) 563-2871 x14 Steve Gagnier

Best

Vehicle Number _____

| No. of Units Container Type | HM | BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203 | TOTAL QUANTITY (Weight, Volume, Gallons, etc.) | WEIGHT (Subject to Correction) | RATE | CHARGES (For Carrier Use Only) |
|--------------------------------|----|--|--|--------------------------------------|------|--------------------------------------|
| dr | X | RQ Asbestos | 200 # | | | |
| | | 9 NA 2212 PG III | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

PLACARDS TENDERED: YES NO

1) Where the rate is dependent on value, shippers are required to state in writing the agreed or declared value of the property, as follows: "The declared value of the property is hereby specifically stated by the shipper to be \$_____ per _____ per the applicable tariff provisions specify a limitation of the carrier's liability lease or a value declaration by the shipper and the shipper does not release liability or declare a value, the carrier's liability shall be limited to the extent of such provisions. See NMFC Item 172. Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Tariff Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS _____

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor _____

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES: \$ _____

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collected

RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to des-

tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

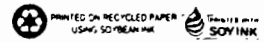
Signature [Signature] AS Agent of _____

CARRIER MC Environmental Services, Inc.

PER [Signature]

DATE 11/28/01

post-office address of shipper _____



STRAIGHT BILL OF LADING

ORIGINAL NOT NEGOTIABLE

Shipper No. 5A-17

Carrier No. _____

Page 1 of 1

MC Environmental Services, Inc.
(Name of carrier) (SCAC)

Date 11/28/06

TO: Consignee CWM Chemical Services
Street 1550 Balmer Rd
City Model City State NY Zip Code 14107

FROM: Shipper AFBCA/DA Plattsburgh
Street 22 US Suite 2200
City Plattsburgh State NY Zip Code 12906
24 hr. Emergency Contact Tel. No. (518) 563-2871 x14 Steve

Route Best Vehicle Number _____

| No. of Units & Container Type | HM | BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203 | TOTAL QUANTITY (Weight, Volume, Gallons, etc.) | WEIGHT (Subject to Correction) | RATE | CHARGE (For Can Use On) |
|-------------------------------|----|---|---|-----------------------------------|------|----------------------------|
| 1 dr | X | TRQ Asbestos | 200 [#] | | | |
| | | 9 NA 2212 PG III | | | | |

PLACARDS TENDERED: YES NO

1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not exceed _____ per _____". Where the applicable tariff provisions specify a limitation of the carrier's liability on a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent set by such provisions. See NMFC Item 172. Methods requiring special or additional care or attention in handling or stowing be so marked and packaged as to ensure safe transportation. See section 2(e) of the 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID COLLECT

TOTAL CHARGES: \$ _____

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collected

RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to des-

tion and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

PER [Signature] As Agent of

CARRIER MC Environmental Services, Inc.
PER [Signature]
DATE 11/28/06

nearest post-office address of shipper

STYLE F 260-3 LABELMASTER® (800) 621-5808 www.labelmaster.com

